



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeffrey Hendel

**October 24, 2012**

**4SESD-MTSB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa  
Superfund Emergency Response and Removal

**FROM:** Jeffrey Hendel  
Quality Assurance Section Chemist

**THRU:** Marilyn Maycock, Chief  
Quality Assurance Section

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

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**PCB Aroclors (PCBA)**

PCB aroclors

CLP Aroclors (Soil)



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**Report Narrative** for Work Order C124003, Project: 12-0655  
Site Name: Yadkin River Sediment and Fish Tissue, Stanly, NC  
CLP Case No. 42958, ELEMENT Sample Nos. C124003-01 through C124003-12  
C124004-01 (PES only)

Organic Analysis: Spectrum Analytical, Inc., Warwick, RI

The ESAT Work Team reviewed data for twelve (12) sediment samples analyzed for PCB Aroclors per CLP Statement of Work SOM01.2. The samples were collected on 09/25/12 and were received by the laboratory on 09/27/12. The final data package was received on 10/18/12 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case.

Reporting limits for sample C124003-06, 08, 10, and 12 are elevated due to moisture content, greater than 50%.

There were no anomalies associated with the data requiring qualification of data.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa**

**Contract Lab Case: 42958**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>MD#</b>	<b>D#</b>	<b>Matrix</b>	<b>Date Collected</b>
FR-001-SD	C124003-01		6YD1	Sediment	9/25/12 10:50
FR-002-SD	C124003-02		6YD2	Sediment	9/25/12 11:10
FR-003-SD	C124003-03		6YD3	Sediment	9/25/12 11:37
FR-011-SD	C124003-04		6YE2	Sediment	9/25/12 11:40
FR-004-SD	C124003-05		6YD4	Sediment	9/25/12 12:05
FR-005-SD	C124003-06		6YD5	Sediment	9/25/12 12:25
FR-006-SD	C124003-07		6YD6	Sediment	9/25/12 12:45
FR-007-SD	C124003-08		6YD7	Sediment	9/25/12 13:00
FR-008-SD	C124003-09		6YD8	Sediment	9/25/12 13:12
FR-008-SDD	C124003-10		6YD9	Sediment	9/25/12 13:12
FR-009-SD	C124003-11		6YE0	Sediment	9/25/12 13:30
FR-010-SD	C124003-12		6YE1	Sediment	9/25/12 13:50



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### DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

### ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-001-SD

Lab ID: C124003-01

MD No:

Station ID: FR001

Matrix: Sediment

D No: 6YD1 MITKEM

Date Collected: 9/25/12 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	23		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	43	U	ug/kg dry	43	10/01/12	10/03/12	CLP SOM01.2 A



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-002-SD

Lab ID: C124003-02

MD No:

Station ID: FR002

Matrix: Sediment

D No: 6YD2 MITKEM

Date Collected: 9/25/12 11:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	25		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-003-SD

Lab ID: C124003-03

MD No:

Station ID: FR003

Matrix: Sediment

D No: 6YD3 MITKEM

Date Collected: 9/25/12 11:37

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	25		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	44	U	ug/kg dry	44	10/01/12	10/03/12	CLP SOM01.2 A



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-011-SD

Lab ID: C124003-04

MD No:

Station ID: FR003

Matrix: Sediment

D No: 6YE2 MITKEM

Date Collected: 9/25/12 11:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	28		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	45	U	ug/kg dry	45	10/01/12	10/03/12	CLP SOM01.2 A





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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-004-SD

Lab ID: C124003-05

MD No:

Station ID: FR004

Matrix: Sediment

D No: 6YD4 MITKEM

Date Collected: 9/25/12 12:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	34		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	50	U	ug/kg dry	50	10/01/12	10/03/12	CLP SOM01.2 A



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-005-SD

Lab ID: C124003-06

MD No:

Station ID: FR005

Matrix: Sediment

D No: 6YD5 MITKEM

Date Collected: 9/25/12 12:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	71		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	110	U	ug/kg dry	110	10/01/12	10/03/12	CLP SOM01.2 A



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Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-006-SD

Lab ID: C124003-07

MD No:

Station ID: FR006

Matrix: Sediment

D No: 6YD6 MITKEM

Date Collected: 9/25/12 12:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	17		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	40	U	ug/kg dry	40	10/01/12	10/03/12	CLP SOM01.2 A



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-007-SD

Lab ID: C124003-08

MD No:

Station ID: FR007

Matrix: Sediment

D No: 6YD7 MITKEM

Date Collected: 9/25/12 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	51		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	67	U	ug/kg dry	67	10/01/12	10/03/12	CLP SOM01.2 A



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### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-008-SD

Lab ID: C124003-09

MD No:

Station ID: FR008

Matrix: Sediment

D No: 6YD8 MITKEM

Date Collected: 9/25/12 13:12

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	47		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	62	U	ug/kg dry	62	10/01/12	10/03/12	CLP SOM01.2 A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeffrey Hendel

### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-008-SDD

Lab ID: C124003-10

MD No:

Station ID: FR008

Matrix: Sediment

D No: 6YD9 MITKEM

Date Collected: 9/25/12 13:12

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	53		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	69	U	ug/kg dry	69	10/01/12	10/03/12	CLP SOM01.2 A



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D.A.R.T. Id: 11-0321

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeffrey Hendel

### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-009-SD

Lab ID: C124003-11

MD No:

Station ID: FR009

Matrix: Sediment

D No: 6YE0 MITKEM

Date Collected: 9/25/12 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	44		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	59	U	ug/kg dry	59	10/01/12	10/03/12	CLP SOM01.2 A



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Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeffrey Hendel

### PCB Aroclors

Project: 12-0655, Yadkin River Sediment and Fish Tissue Sa

Contract Lab Case: 42958

Sample ID: FR-010-SD

Lab ID: C124003-12

MD No:

Station ID: FR010

Matrix: Sediment

D No: 6YE1 MITKEM

Date Collected: 9/25/12 13:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1644012	% Moisture	65		%		10/01/12	10/03/12	CLP Aroclors
12674-11-2	PCB-1016 (Aroclor 1016)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
11104-28-2	PCB-1221 (Aroclor 1221)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
11141-16-5	PCB-1232 (Aroclor 1232)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
53469-21-9	PCB-1242 (Aroclor 1242)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
12672-29-6	PCB-1248 (Aroclor 1248)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
11097-69-1	PCB-1254 (Aroclor 1254)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
11096-82-5	PCB-1260 (Aroclor 1260)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
37324-23-5	PCB-1262 (Aroclor 1262)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A
11100-14-4	PCB-1268 (Aroclor 1268)	93	U	ug/kg dry	93	10/01/12	10/03/12	CLP SOM01.2 A





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**May 31, 2011**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa  
Superfund Remedial

**FROM:** Jeannie Williamson  
OCS Chemist

**THRU:** Sallie Hale, Chief  
ASB Organic Chemistry Section

**TO:** Jonathan Vail

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

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**PCB Aroclors (PCBA)**

PCB aroclors

EPA 8082



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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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D.A.R.T. Id: 11-0321

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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
YRSD001SD	E111712-01	Sediment	4/20/11 13:30	4/22/11 9:15
YRSD002SD	E111712-02	Sediment	4/20/11 14:10	4/22/11 9:15
YRSD003SD	E111712-03	Sediment	4/20/11 09:20	4/22/11 9:15
YRSD004SD	E111712-04	Sediment	4/19/11 17:05	4/22/11 9:15
YRSD005SD	E111712-05	Sediment	4/19/11 17:45	4/22/11 9:15
YRSD006SD	E111712-06	Sediment	4/20/11 10:35	4/22/11 9:15
YRSD007SD	E111712-07	Sediment	4/19/11 16:15	4/22/11 9:15
YRSD008SD	E111712-08	Sediment	4/19/11 15:55	4/22/11 9:15
YRSD009SD	E111712-09	Sediment	4/19/11 14:30	4/22/11 9:15
YRSD010SD	E111712-10	Sediment	4/19/11 11:55	4/22/11 9:15
YRSD011SD	E111712-11	Sediment	4/19/11 14:55	4/22/11 9:15
YRSD012SD	E111712-12	Sediment	4/19/11 11:00	4/22/11 9:15
YRSD013SD	E111712-13	Sediment	4/19/11 10:00	4/22/11 9:15
YRSD014SD	E111712-14	Sediment	4/19/11 09:20	4/22/11 9:15
YRSD015SD	E111712-15	Sediment	4/18/11 18:40	4/22/11 9:15
YRSD016SD	E111712-16	Sediment	4/18/11 18:00	4/22/11 9:15
YRSD017SD	E111712-17	Sediment	4/18/11 17:10	4/22/11 9:15
YRSD018SD	E111712-18	Sediment	4/20/11 18:00	4/22/11 9:15
YRSD019SD	E111712-19	Sediment	4/20/11 17:30	4/22/11 9:15
YRSD020SD	E111712-20	Sediment	4/18/11 16:00	4/22/11 9:15
YRSD021SD	E111712-21	Sediment	4/20/11 12:45	4/22/11 9:15
YRSD101SD	E111712-22	Sediment	4/20/11 13:40	4/22/11 9:15
YRSD112SD	E111712-23	Sediment	4/19/11 11:00	4/22/11 9:15



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### DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- CR MRL elevated due to detection of Ar1232. Possible mixture of early eluting Aroclors in sample.
- CRA MRL elevated due to detection of Ar1254. Possible mixture of late eluting Aroclors in sample.
- I-5 Mixture of Aroclors in sample; predominant Aroclors reported
- J The identification of the analyte is acceptable; the reported value is an estimate.

### ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeannie Williamson

### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD001SD**

**Lab ID: E111712-01**

**Station ID: SD001**

**Matrix: Sediment**

**Date Collected: 4/20/11 13:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	27	U	ug/kg dry	27	4/25/11 11:25	5/27/11 2:29	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 2:29	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: YRSD002SD

Lab ID: E111712-02

Station ID: SD002

Matrix: Sediment

Date Collected: 4/20/11 14:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	49	U	ug/kg dry	49	4/25/11 11:25	5/27/11 2:45	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 2:45	EPA 8082



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D.A.R.T. Id: 11-0321

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeannie Williamson

### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD003SD

Lab ID: E111712-03

Station ID: SD003

Matrix: Sediment

Date Collected: 4/20/11 9:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	66	U	ug/kg dry	66	4/25/11 11:25	5/27/11 3:00	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	33	U	ug/kg dry	33	4/25/11 11:25	5/27/11 3:00	EPA 8082



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D.A.R.T. Id: 11-0321

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeannie Williamson

### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD004SD

Lab ID: E111712-04

Station ID: SD004

Matrix: Sediment

Date Collected: 4/19/11 17:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	26	U	ug/kg dry	26	4/25/11 11:25	5/27/11 3:16	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 3:16	EPA 8082





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeannie Williamson

### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD005SD

Lab ID: E111712-05

Station ID: SD005

Matrix: Sediment

Date Collected: 4/19/11 17:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	29	U	ug/kg dry	29	4/25/11 11:25	5/27/11 3:32	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 3:32	EPA 8082



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### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD006SD

Lab ID: E111712-06

Station ID: SD006

Matrix: Sediment

Date Collected: 4/20/11 10:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 3:47	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 3:47	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD007SD**

**Lab ID: E111712-07**

**Station ID: SD007**

**Matrix: Sediment**

**Date Collected: 4/19/11 16:15**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	27	U	ug/kg dry	27	4/25/11 11:25	5/27/11 4:03	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 4:03	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD008SD**

**Lab ID: E111712-08**

**Station ID: SD008**

**Matrix: Sediment**

**Date Collected: 4/19/11 15:55**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	27	U	ug/kg dry	27	4/25/11 11:25	5/27/11 4:19	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	14	U	ug/kg dry	14	4/25/11 11:25	5/27/11 4:19	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD009SD**

**Lab ID: E111712-09**

**Station ID: SD009**

**Matrix: Sediment**

**Date Collected: 4/19/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	150	U	ug/kg dry	150	4/25/11 11:25	5/27/11 4:34	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 4:34	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD010SD**

**Lab ID: E111712-10**

**Station ID: SD010**

**Matrix: Sediment**

**Date Collected: 4/19/11 11:55**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	24	U	ug/kg dry	24	4/25/11 11:25	5/27/11 4:50	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	12	U	ug/kg dry	12	4/25/11 11:25	5/27/11 4:50	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD011SD**

**Lab ID: E111712-11**

**Station ID: SD011**

**Matrix: Sediment**

**Date Collected: 4/19/11 14:55**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 5:06	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:06	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: YRSD012SD

Lab ID: E111712-12

Station ID: SD012

Matrix: Sediment

Date Collected: 4/19/11 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	25	U	ug/kg dry	25	4/25/11 11:25	5/27/11 5:21	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:21	EPA 8082





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### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD013SD

Lab ID: E111712-13

Station ID: SD013

Matrix: Sediment

Date Collected: 4/19/11 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	68	U	ug/kg dry	68	4/25/11 11:25	5/28/11 21:44	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	140	U	ug/kg dry	140	4/25/11 11:25	5/28/11 21:44	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	68	U	ug/kg dry	68	4/25/11 11:25	5/28/11 21:44	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	68	U	ug/kg dry	68	4/25/11 11:25	5/28/11 21:44	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	68	U	ug/kg dry	68	4/25/11 11:25	5/28/11 21:44	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	500		ug/kg dry	68	4/25/11 11:25	5/28/11 21:44	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	510	U, CRa	ug/kg dry	510	4/25/11 11:25	5/28/11 21:44	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	510	U, CRa	ug/kg dry	510	4/25/11 11:25	5/28/11 21:44	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	510	U, CRa	ug/kg dry	510	4/25/11 11:25	5/28/11 21:44	EPA 8082



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### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD014SD

Lab ID: E111712-14

Station ID: SD014

Matrix: Sediment

Date Collected: 4/19/11 9:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	26	U	ug/kg dry	26	4/25/11 11:25	5/27/11 5:52	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 5:52	EPA 8082



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D.A.R.T. Id: 11-0321

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeannie Williamson

### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD015SD

Lab ID: E111712-15

Station ID: SD015

Matrix: Sediment

Date Collected: 4/18/11 18:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	32	U	ug/kg dry	32	4/25/11 11:25	5/27/11 6:08	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	16	U	ug/kg dry	16	4/25/11 11:25	5/27/11 6:08	EPA 8082



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa - Reported by Jeannie Williamson

### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD016SD**

**Lab ID: E111712-16**

**Station ID: SD016**

**Matrix: Sediment**

**Date Collected: 4/18/11 18:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	78	U	ug/kg dry	78	4/25/11 11:25	5/27/11 6:24	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	39	U	ug/kg dry	39	4/25/11 11:25	5/27/11 6:24	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD017SD**

**Lab ID: E111712-17**

**Station ID: SD017**

**Matrix: Sediment**

**Date Collected: 4/18/11 17:10**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	26	U	ug/kg dry	26	4/25/11 11:25	5/27/11 6:39	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 6:39	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD018SD**

**Lab ID: E111712-18**

**Station ID: SD018**

**Matrix: Sediment**

**Date Collected: 4/20/11 18:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	76	U	ug/kg dry	76	4/25/11 11:25	5/27/11 6:55	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	38	U	ug/kg dry	38	4/25/11 11:25	5/27/11 6:55	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YRSD019SD**

**Lab ID: E111712-19**

**Station ID: SD019**

**Matrix: Sediment**

**Date Collected: 4/20/11 17:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	26	U	ug/kg dry	26	4/25/11 11:25	5/27/11 7:11	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/25/11 11:25	5/27/11 7:11	EPA 8082



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### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD020SD

Lab ID: E111712-20

Station ID: SD020

Matrix: Sediment

Date Collected: 4/18/11 16:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	110	U, J, CR	ug/kg dry	110	4/29/11 11:51	5/18/11 18:03	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	220	U, J, CR	ug/kg dry	220	4/29/11 11:51	5/18/11 18:03	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	100	J, I-5	ug/kg dry	12	4/29/11 11:51	5/18/11 18:03	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	110	U, J, CR	ug/kg dry	110	4/29/11 11:51	5/18/11 18:03	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	110	U, J, CR	ug/kg dry	110	4/29/11 11:51	5/18/11 18:03	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	12	U	ug/kg dry	12	4/29/11 11:51	5/18/11 18:03	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	12	U	ug/kg dry	12	4/29/11 11:51	5/18/11 18:03	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	12	U	ug/kg dry	12	4/29/11 11:51	5/18/11 18:03	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	12	U	ug/kg dry	12	4/29/11 11:51	5/18/11 18:03	EPA 8082





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### PCB Aroclors

Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YRSD021SD

Lab ID: E111712-21

Station ID: SD021

Matrix: Sediment

Date Collected: 4/20/11 12:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	33	U	ug/kg dry	33	4/29/11 11:51	5/18/11 18:20	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	16	U	ug/kg dry	16	4/29/11 11:51	5/18/11 18:20	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: YRSD101SD

Lab ID: E111712-22

Station ID: SD001

Matrix: Sediment

Date Collected: 4/20/11 13:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	27	U	ug/kg dry	27	4/29/11 11:51	5/18/11 18:37	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	14	U	ug/kg dry	14	4/29/11 11:51	5/18/11 18:37	EPA 8082



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### PCB Aroclors

**Project: 11-0321, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: YRSD112SD

Lab ID: E111712-23

Station ID: SD012

Matrix: Sediment

Date Collected: 4/19/11 11:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
12674-11-2	PCB-1016 (Aroclor 1016)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
11104-28-2	PCB-1221 (Aroclor 1221)	26	U	ug/kg dry	26	4/29/11 11:51	5/18/11 18:54	EPA 8082
11141-16-5	PCB-1232 (Aroclor 1232)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
53469-21-9	PCB-1242 (Aroclor 1242)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
12672-29-6	PCB-1248 (Aroclor 1248)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
11097-69-1	PCB-1254 (Aroclor 1254)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
11096-82-5	PCB-1260 (Aroclor 1260)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
37324-23-5	PCB-1262 (Aroclor 1262)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082
11100-14-4	PCB-1268 (Aroclor 1268)	13	U	ug/kg dry	13	4/29/11 11:51	5/18/11 18:54	EPA 8082



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

December 6, 2012

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa  
Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Ken Rhame

**This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.**

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b> PCB Congeners	EPA 1668A (Tissue)	None



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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Report Narrative** for Work Order E113804, Project: 11-0342  
10/27/12 SJH PCB Congeners/Lipids: Data reissued so that QC is reported with 2 significant figures like the samples. This report replaces E113804 PCBC PHYSP FINAL 10 27 12 1103.

12/06/12 SJH PCB Congeners: PCB Congener data reported for sample E113804-04. Accidentally left out of report E113804 PCBC PHYSP FINAL 10 27 12 1315 though % lipids was included. Reported in this manner per end-user's request.

The CR was affixed to most of the data and QC because of Method 1668A's requirement that the absolute retention times (RTs) of the level of chlorination/window defining mixture (LOC/WDM) congeners in the calibration verification standard be within +/- 15 seconds of their absolute RTs in the initial calibration. There was good agreement (qualitatively and quantitatively) between the data from this sample (white crappie, mid-trophic from High Rock Lake) with that from a similar fish (11-373, black crappie, mid-trophic from same lake). However, given that the analysis did not meet all method requirements, the sample data was still J-qualified.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-372	E113804-04	Fish	8/23/11 12:00	9/13/11 9:53



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- CR The absolute retention time of the labeled quantitative reference congener in the calibration verification standard is outside the  $\pm 15$  second window of its absolute retention time from the original calibration.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.
- QI-1 Internal standard was outside of method control limits.

### ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	16	U	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
2051-61-8	PCB Congener # 2	16	U	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
2051-62-9	PCB Congener # 3	16	U	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
13029-08-8	PCB Congener # 4	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
16605-91-7	PCB Congener # 5	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
25569-80-6	PCB Congener # 6	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
33284-50-3	PCB Congener # 7	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
34883-43-7	PCB Congener # 8	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
34883-39-1	PCB Congener # 9	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
33146-45-1	PCB Congener # 10	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
2050-67-1	PCB Congener # 11	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
34883-41-5	PCB Congener # 14	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
2050-68-2	PCB Congener # 15	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-78-9	PCB Congener # 16	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
37680-66-3	PCB Congener # 17	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-73-4	PCB Congener # 19	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-85-8	PCB Congener # 22	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
55720-44-0	PCB Congener # 23	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
55702-45-9	PCB Congener # 24	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
55712-37-3	PCB Congener # 25	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-76-7	PCB Congener # 27	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
16606-02-3	PCB Congener # 31	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-77-8	PCB Congener # 32	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
37680-69-6	PCB Congener # 35	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-87-0	PCB Congener # 36	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-90-5	PCB Congener # 37	2.2	J, CR, Q-2	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
53555-66-1	PCB Congener # 38	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
38444-88-1	PCB Congener # 39	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
36559-22-5	PCB Congener # 42	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70362-46-8	PCB Congener # 43	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	27	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
41464-47-5	PCB Congener # 46	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70362-47-9	PCB Congener # 48	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	21	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
35693-99-3	PCB Congener # 52	28	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
15968-05-5	PCB Congener # 54	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
74338-24-2	PCB Congener # 55	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
41464-43-1	PCB Congener # 56	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70424-67-8	PCB Congener # 57	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
41464-49-7	PCB Congener # 58	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
33025-41-1	PCB Congener # 60	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	47	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
74472-34-7	PCB Congener # 63	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
52663-58-8	PCB Congener # 64	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
32598-10-0	PCB Congener # 66	41	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
73575-53-8	PCB Congener # 67	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
73575-52-7	PCB Congener # 68	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
74338-23-1	PCB Congener # 73	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
32598-13-3	PCB Congener # 77	2.9	J, Q-2, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70362-49-1	PCB Congener # 78	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
41464-48-6	PCB Congener # 79	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
33284-52-5	PCB Congener # 80	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70362-50-4	PCB Congener # 81	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
52663-62-4	PCB Congener # 82	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	110	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
52663-60-2	PCB Congener # 84	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	22	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	45	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
73575-57-2	PCB Congener # 89	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	99	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
52663-61-3	PCB Congener # 92	21	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	34	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
73575-55-0	PCB Congener # 94	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
73575-54-9	PCB Congener # 96	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
60145-21-3	PCB Congener #103	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
56558-16-8	PCB Congener #104	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
32598-14-4	PCB Congener #105	34	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70424-69-0	PCB Congener #106	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
70424-68-9	PCB Congener #107	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	89	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
39635-32-0	PCB Congener #111	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
74472-36-9	PCB Congener #112	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-372**

**Lab ID: E113804-04**

**Station ID: YAD-HRL-AC**

**Matrix: Fish**

**Date Collected: 8/23/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
31508-00-6	PCB Congener #118	150	J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
68194-12-7	PCB Congener #120	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
56558-18-0	PCB Congener #121	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
76842-07-4	PCB Congener #122	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
65510-44-3	PCB Congener #123	3.5	J, CR, Q-2	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
57465-28-8	PCB Congener #126	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
39635-33-1	PCB Congener #127	16	U, J, CR	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	65	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	430	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-66-8	PCB Congener #130	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
61798-70-7	PCB Congener #131	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
38380-05-1	PCB Congener #132	44	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
35694-04-3	PCB Congener #133	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	120	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
38411-22-2	PCB Congener #136	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
35694-06-5	PCB Congener #137	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	31	U, J, QI-1, CR	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52712-04-6	PCB Congener #141	40	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
41411-61-4	PCB Congener #142	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
68194-14-9	PCB Congener #144	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-40-5	PCB Congener #145	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
51908-16-8	PCB Congener #146	130	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	250	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-41-6	PCB Congener #148	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
68194-08-1	PCB Congener #150	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
68194-09-2	PCB Congener #152	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	540	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.4	J, CR, Q-2, QI-1	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	21	J, CR, QI-1	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
74472-42-7	PCB Congener #158	32	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
39635-35-3	PCB Congener #159	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-43-8	PCB Congener #161	31	U, J, QI-1, CR	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
39635-34-2	PCB Congener #162	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-45-0	PCB Congener #164	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-46-1	PCB Congener #165	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-72-6	PCB Congener #167	11	J, CR, Q-2, QI-1	ng/kg	16	3/13/12 17:45	3/19/12 21:05	EPA 1668A
32774-16-6	PCB Congener #169	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
35065-30-6	PCB Congener #170	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	47	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-74-8	PCB Congener #172	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
38411-25-5	PCB Congener #174	130	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
40186-70-7	PCB Congener #175	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-65-7	PCB Congener #176	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-70-4	PCB Congener #177	67	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-67-9	PCB Congener #178	62	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-64-6	PCB Congener #179	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-47-2	PCB Congener #181	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
60145-23-5	PCB Congener #182	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-48-3	PCB Congener #184	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-49-4	PCB Congener #186	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-68-0	PCB Congener #187	370	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74487-85-7	PCB Congener #188	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
39635-31-9	PCB Congener #189	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41411-64-7	PCB Congener #190	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-50-7	PCB Congener #191	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-51-8	PCB Congener #192	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
35694-08-7	PCB Congener #194	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-78-2	PCB Congener #195	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
42740-50-1	PCB Congener #196	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
40186-71-8	PCB Congener #201	31	U, J, QI-1, CR	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
2136-99-4	PCB Congener #202	35	J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-76-0	PCB Congener #203	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-52-9	PCB Congener #204	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
74472-53-0	PCB Congener #205	31	U, J, CR, QI-1	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
40186-72-9	PCB Congener #206	90	J, CR	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-79-3	PCB Congener #207	31	U, J, CR	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
52663-77-1	PCB Congener #208	40	J, CR	ng/kg	31	3/13/12 17:45	3/27/12 18:21	EPA 1668A
2051-24-3	PCB Congener #209	110	J, CR, QI-1	ng/kg	62	3/13/12 17:45	3/27/12 18:21	EPA 1668A



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**Blank (1203075-BLK1)**

Prepared: 03/13/12 Analyzed: 03/19/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	46.786		ng/kg	199.60		23.4	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	55.609		"	199.60		27.9	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	59.960		"	199.60		30.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	71.976		"	199.60		36.1	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 19L	67.904		"	199.60		34.0	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 37L	75.210		"	199.60		37.7	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 54L	58.882		"	199.60		29.5	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 77L	72.934		"	199.60		36.5	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 81L	69.102		"	199.60		34.6	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 104L	68.583		"	199.60		34.4	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 105L	69.222		"	199.60		34.7	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 114L	73.054		"	199.60		36.6	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 118L	71.537		"	199.60		35.8	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 123L	74.491		"	199.60		37.3	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 126L	81.238		"	199.60		40.7	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 155L	65.589		"	199.60		32.9	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	141.04		"	399.20		35.3	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 167L	68.224		"	199.60		34.2	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 169L	75.888		"	199.60		38.0	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 188L	96.647		"	199.60		48.4	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 189L	90.858		"	199.60		45.5	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 202L	100.32		"	199.60		50.3	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 205L	68.663		"	199.60		34.4	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 206L	127.19		"	199.60		63.7	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 208L	80.519		"	199.60		40.3	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 209L	140.52		"	199.60		70.4	25-150			CR
Surrogate: <sup>13</sup> C PCB Congener # 28L	74.371		"	195.61		38.0	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	81.557		"	193.61		42.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	89.341		"	181.64		49.2	30-135			
PCB Congener # 1	U	10	"							U
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							CR, U
PCB Congener # 6	U	10	"							CR, U
PCB Congener # 7	U	10	"							CR, U
PCB Congener # 8	U	10	"							CR, U
PCB Congener # 9	U	10	"							CR, U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**Blank (1203075-BLK1)**

Prepared: 03/13/12 Analyzed: 03/16/12

PCB Congener # 10	U	10	ng/kg							CR, U
PCB Congener # 11	U	10	"							CR, U
PCB Congener # 12 and/or 13	U	10	"							CR, U
PCB Congener # 14	U	10	"							CR, U
PCB Congener # 15	U	10	"							CR, U
PCB Congener # 16	U	10	"							CR, U
PCB Congener # 17	U	10	"							CR, U
PCB Congener # 18 and/or 30	U	10	"							CR, U
PCB Congener # 19	U	10	"							CR, U
PCB Congener # 20 and/or 28	U	10	"							CR, U
PCB Congener # 21 and/or 33	U	10	"							CR, U
PCB Congener # 22	U	10	"							CR, U
PCB Congener # 23	U	10	"							CR, U
PCB Congener # 24	U	10	"							CR, U
PCB Congener # 25	U	10	"							CR, U
PCB Congener # 26 and/or 29	U	10	"							CR, U
PCB Congener # 27	U	10	"							CR, U
PCB Congener # 31	U	10	"							CR, U
PCB Congener # 32	U	10	"							CR, U
PCB Congener # 34	U	10	"							CR, U
PCB Congener # 35	U	10	"							CR, U
PCB Congener # 36	U	10	"							CR, U
PCB Congener # 37	U	10	"							CR, U
PCB Congener # 38	U	10	"							CR, U
PCB Congener # 39	U	10	"							CR, U
PCB Congener # 40 and/or 41,71	U	10	"							CR, U
PCB Congener # 42	U	10	"							CR, U
PCB Congener # 43	U	10	"							CR, U
PCB Congener # 44 and/or 47,65	U	10	"							CR, U
PCB Congener # 45 and/or 51	U	10	"							CR, U
PCB Congener # 46	U	10	"							CR, U
PCB Congener # 48	U	10	"							CR, U
PCB Congener # 49 and/or 69	U	10	"							CR, U
PCB Congener # 50 and/or 53	U	10	"							CR, U
PCB Congener # 52	U	10	"							CR, U
PCB Congener # 54	U	10	"							CR, U
PCB Congener # 55	U	10	"							CR, U
PCB Congener # 56	U	10	"							CR, U
PCB Congener # 57	U	10	"							CR, U
PCB Congener # 58	U	10	"							CR, U





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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**Blank (1203075-BLK1)**

Prepared: 03/13/12 Analyzed: 03/16/12

PCB Congener # 59 and/or 62,75	U	10	ng/kg							CR, U
PCB Congener # 60	U	10	"							CR, U
PCB Congener # 61 and/or 70,74,76	U	10	"							CR, U
PCB Congener # 63	U	10	"							CR, U
PCB Congener # 64	U	10	"							CR, U
PCB Congener # 66	U	10	"							CR, U
PCB Congener # 67	U	10	"							CR, U
PCB Congener # 68	U	10	"							CR, U
PCB Congener # 72	U	10	"							CR, U
PCB Congener # 73	U	10	"							CR, U
PCB Congener # 77	U	10	"							CR, U
PCB Congener # 78	U	10	"							CR, U
PCB Congener # 79	U	10	"							CR, U
PCB Congener # 80	U	10	"							CR, U
PCB Congener # 81	U	10	"							CR, U
PCB Congener # 82	U	10	"							CR, U
PCB Congener # 83 and/or 99	U	10	"							CR, U
PCB Congener # 84	U	10	"							CR, U
PCB Congener # 85 and/or 116,117	U	10	"							CR, U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							CR, U
PCB Congener # 88 and/or 91	U	10	"							CR, U
PCB Congener # 89	U	10	"							CR, U
PCB Congener # 90 and/or 101,113	U	10	"							CR, U
PCB Congener # 92	U	10	"							CR, U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							CR, U
PCB Congener # 94	U	10	"							CR, U
PCB Congener # 96	U	10	"							CR, U
PCB Congener #103	U	10	"							CR, U
PCB Congener #104	U	10	"							CR, U
PCB Congener #105	2.5	10	"							B-3, CR, Q-2, J
PCB Congener #106	U	10	"							CR, U
PCB Congener #107	U	10	"							CR, U
PCB Congener #108 and/or 124	U	10	"							CR, U
PCB Congener #110 and/or 115	U	10	"							CR, U
PCB Congener #111	U	10	"							CR, U
PCB Congener #112	U	10	"							CR, U
PCB Congener #114	U	10	"							CR, U
PCB Congener #118	7.6	10	"							CR, Q-2, B-3, J





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**Blank (1203075-BLK1)**

Prepared: 03/13/12 Analyzed: 03/16/12

PCB Congener #120	U	10	ng/kg							CR, U
PCB Congener #121	U	10	"							CR, U
PCB Congener #122	U	10	"							CR, U
PCB Congener #123	U	10	"							CR, U
PCB Congener #126	U	10	"							CR, U
PCB Congener #127	U	10	"							CR, U
PCB Congener #128 and/or 166	U	20	"							CR, U
PCB Congener #129 and/or 138,160,163	U	20	"							CR, U
PCB Congener #130	U	20	"							CR, U
PCB Congener #131	U	20	"							CR, U
PCB Congener #132	U	20	"							CR, U
PCB Congener #133	U	20	"							CR, U
PCB Congener #134 and/or 143	U	20	"							CR, U
PCB Congener #135 and/or 151,154	U	20	"							CR, U
PCB Congener #136	U	20	"							CR, U
PCB Congener #137	U	20	"							CR, U
PCB Congener #139 and/or 140	U	20	"							CR, U
PCB Congener #141	U	20	"							CR, U
PCB Congener #142	U	20	"							CR, U
PCB Congener #144	U	20	"							CR, U
PCB Congener #145	U	20	"							CR, U
PCB Congener #146	U	20	"							CR, U
PCB Congener #147 and/or 149	U	20	"							CR, U
PCB Congener #148	U	20	"							CR, U
PCB Congener #150	U	20	"							CR, U
PCB Congener #152	U	20	"							CR, U
PCB Congener #153 and/or 168	U	20	"							CR, U
PCB Congener #155	U	10	"							CR, U
PCB Congener #156 and/or 157	U	10	"							CR, U
PCB Congener #158	U	20	"							CR, U
PCB Congener #159	U	20	"							CR, U
PCB Congener #161	U	20	"							CR, U
PCB Congener #162	U	20	"							CR, U
PCB Congener #164	U	20	"							CR, U
PCB Congener #165	U	20	"							CR, U
PCB Congener #167	U	20	"							CR, U
PCB Congener #169	U	20	"							CR, U
PCB Congener #170	U	20	"							CR, U
PCB Congener #171 and/or 173	U	20	"							CR, U
PCB Congener #172	U	20	"							CR, U



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**Blank (1203075-BLK1)**

Prepared: 03/13/12 Analyzed: 03/19/12

PCB Congener #174	U	20	ng/kg							CR, U
PCB Congener #175	U	20	"							CR, U
PCB Congener #176	U	20	"							CR, U
PCB Congener #177	U	20	"							CR, U
PCB Congener #178	U	20	"							CR, U
PCB Congener #179	U	20	"							CR, U
PCB Congener #180 and/or 193	U	20	"							CR, U
PCB Congener #181	U	20	"							CR, U
PCB Congener #182	U	20	"							CR, U
PCB Congener #183 and/or 185	U	20	"							CR, U
PCB Congener #184	U	20	"							CR, U
PCB Congener #186	U	20	"							CR, U
PCB Congener #187	U	20	"							CR, U
PCB Congener #188	U	20	"							CR, U
PCB Congener #189	U	20	"							CR, U
PCB Congener #190	U	20	"							CR, U
PCB Congener #191	U	20	"							CR, U
PCB Congener #192	U	20	"							CR, U
PCB Congener #194	U	20	"							CR, U
PCB Congener #195	U	20	"							CR, U
PCB Congener #196	U	20	"							CR, U
PCB Congener #197 and/or 200	U	20	"							CR, U
PCB Congener #198 and/or 199	U	20	"							CR, U
PCB Congener #201	U	20	"							CR, U
PCB Congener #202	U	20	"							CR, U
PCB Congener #203	U	20	"							CR, U
PCB Congener #204	U	20	"							CR, U
PCB Congener #205	U	20	"							CR, U
PCB Congener #206	U	20	"							CR, U
PCB Congener #207	U	20	"							CR, U
PCB Congener #208	U	20	"							CR, U
PCB Congener #209	U	40	"							CR, U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

LCS (1203075-BS1)

Prepared: 03/13/12 Analyzed: 03/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	93.599		ng/kg	199.40		46.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	115.41		"	199.40		57.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	127.40		"	199.40		63.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	118.80		"	199.40		59.6	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 19L	137.87		"	199.40		69.1	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 37L	96.331		"	199.40		48.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 54L	100.84		"	199.40		50.6	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 77L	87.458		"	199.40		43.9	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 81L	77.687		"	199.40		39.0	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 104L	102.69		"	199.40		51.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 105L	89.252		"	199.40		44.8	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 114L	92.682		"	199.40		46.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 118L	91.645		"	199.40		46.0	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 123L	90.907		"	199.40		45.6	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 126L	100.92		"	199.40		50.6	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 155L	75.314		"	199.40		37.8	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	155.79		"	398.80		39.1	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 167L	73.719		"	199.40		37.0	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 169L	60.259		"	199.40		30.2	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 188L	256.69		"	199.40		129	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 189L	161.26		"	199.40		80.9	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 202L	245.86		"	199.40		123	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 205L	86.640		"	199.40		43.4	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 206L	163.57		"	199.40		82.0	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 208L	104.23		"	199.40		52.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 209L	248.65		"	199.40		125	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 28L	123.79		"	195.41		63.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	160.54		"	193.42		83.0	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	176.19		"	181.46		97.1	40-125			
PCB Congener # 1	85	10	"	99.701		85.2	50-150			
PCB Congener # 3	80	10	"	99.701		80.2	50-150			
PCB Congener # 4	87	10	"	99.701		87.6	50-150			
PCB Congener # 15	72	10	"	99.701		72.4	50-150			CR
PCB Congener # 19	88	10	"	99.701		88.7	50-150			CR
PCB Congener # 37	69	10	"	99.701		69.3	50-150			CR
PCB Congener # 54	91	10	"	99.701		91.1	50-150			CR
PCB Congener # 77	78	10	"	99.701		78.3	50-150			CR
PCB Congener # 81	82	10	"	99.701		82.5	50-150			CR



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**LCS (1203075-BS1)**

Prepared: 03/13/12 Analyzed: 03/16/12

PCB Congener #104	90	10	ng/kg	99.701		90.7	50-150			CR
PCB Congener #105	82	10	"	99.701		82.6	50-150			CR
PCB Congener #114	89	10	"	99.701		89.6	50-150			CR
PCB Congener #118	100	10	"	99.701		99.8	50-150			CR
PCB Congener #123	85	10	"	99.701		85.7	50-150			CR
PCB Congener #126	74	10	"	99.701		74.7	50-150			CR
PCB Congener #155	92	10	"	99.701		91.8	50-150			CR
PCB Congener #156 and/or 157	160	10	"	199.40		82.7	50-150			CR
PCB Congener #167	82	10	"	99.701		81.9	50-150			CR
PCB Congener #169	96	10	"	99.701		96.2	50-150			CR
PCB Congener #188	98	10	"	99.701		97.9	50-150			CR
PCB Congener #189	97	10	"	99.701		97.4	50-150			CR
PCB Congener #202	90	10	"	99.701		90.1	50-150			CR
PCB Congener #205	91	10	"	99.701		91.1	50-150			CR
PCB Congener #206	110	10	"	99.701		108	50-150			CR
PCB Congener #208	92	10	"	99.701		91.9	50-150			CR
PCB Congener #209	100	20	"	99.701		104	50-150			CR

**LCS Dup (1203075-BSD1)**

Prepared: 03/13/12 Analyzed: 03/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	55.710		ng/kg	198.61		28.1	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	63.019		"	198.61		31.7	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	64.211		"	198.61		32.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	61.351		"	198.61		30.9	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 19L	76.544		"	198.61		38.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 37L	61.490		"	198.61		31.0	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 54L	53.545		"	198.61		27.0	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 77L	56.008		"	198.61		28.2	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 81L	270.65		"	198.61		136	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 104L	53.784		"	198.61		27.1	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 105L	50.645		"	198.61		25.5	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 114L	57.716		"	198.61		29.1	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 118L	49.772		"	198.61		25.1	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 123L	52.949		"	198.61		26.7	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 126L	57.200		"	198.61		28.8	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 155L	51.360		"	198.61		25.9	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	116.15		"	397.22		29.2	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 167L	54.220		"	198.61		27.3	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 169L	63.396		"	198.61		31.9	30-140			CR



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**LCS Dup (1203075-BSD1)**

Prepared: 03/13/12 Analyzed: 03/16/12

Surrogate: <sup>13</sup> C PCB Congener # 188L	67.746		ng/kg	198.61		34.1	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 189L	50.407		"	198.61		25.4	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 202L	87.031		"	198.61		43.8	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 205L	56.405		"	198.61		28.4	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 206L	83.059		"	198.61		41.8	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 208L	50.089		"	198.61		25.2	30-140			CR, QI-1
Surrogate: <sup>13</sup> C PCB Congener # 209L	103.44		"	198.61		52.1	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 28L	71.420		"	194.64		36.7	40-125			QS-3
Surrogate: <sup>13</sup> C PCB Congener # 111L	88.103		"	192.65		45.7	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	80.377		"	180.73		44.5	40-125			
PCB Congener # 1	90	9.9	"	99.305		90.4	50-150	5.43	30	
PCB Congener # 3	81	9.9	"	99.305		81.7	50-150	1.46	30	
PCB Congener # 4	88	9.9	"	99.305		89.1	50-150	1.25	30	
PCB Congener # 15	75	9.9	"	99.305		75.7	50-150	3.98	30	CR
PCB Congener # 19	80	9.9	"	99.305		80.5	50-150	10.1	30	CR
PCB Congener # 37	69	20	"	99.305		69.5	50-150	0.0811	30	CR
PCB Congener # 54	85	20	"	99.305		85.8	50-150	6.46	30	CR, QI-1
PCB Congener # 77	74	20	"	99.305		74.3	50-150	5.64	30	CR, QI-1
PCB Congener # 81	77	9.9	"	99.305		77.4	50-150	6.88	30	CR
PCB Congener #104	86	20	"	99.305		86.7	50-150	4.95	30	CR, QI-1
PCB Congener #105	83	20	"	99.305		83.7	50-150	0.900	30	CR, QI-1
PCB Congener #114	79	20	"	99.305		79.9	50-150	11.9	30	CR, QI-1
PCB Congener #118	95	20	"	99.305		95.6	50-150	4.67	30	CR, QI-1
PCB Congener #123	86	20	"	99.305		87.0	50-150	1.15	30	CR, QI-1
PCB Congener #126	77	20	"	99.305		78.0	50-150	3.98	30	CR, QI-1
PCB Congener #155	79	20	"	99.305		79.4	50-150	15.0	30	CR, QI-1
PCB Congener #156 and/or 157	160	20	"	198.61		79.0	50-150	4.93	30	CR, QI-1
PCB Congener #167	83	20	"	99.305		83.5	50-150	1.61	30	CR, QI-1
PCB Congener #169	81	20	"	99.305		81.2	50-150	17.3	30	CR
PCB Congener #188	85	9.9	"	99.305		85.1	50-150	14.4	30	CR
PCB Congener #189	78	20	"	99.305		78.5	50-150	21.9	30	CR, QI-1
PCB Congener #202	80	9.9	"	99.305		80.2	50-150	12.0	30	CR
PCB Congener #205	75	20	"	99.305		75.2	50-150	19.6	30	CR, QI-1
PCB Congener #206	82	9.9	"	99.305		82.6	50-150	27.4	30	CR
PCB Congener #208	73	20	"	99.305		73.4	50-150	22.7	30	CR, QI-1
PCB Congener #209	87	20	"	99.305		87.6	50-150	17.3	30	CR



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**MRL Verification (1203075-PS1)**

Prepared: 03/13/12 Analyzed: 03/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	75.551		ng/kg	198.61		38.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	89.374		"	198.61		45.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	101.05		"	198.61		50.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	102.30		"	198.61		51.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 19L	120.06		"	198.61		60.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 37L	96.266		"	198.61		48.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 54L	94.181		"	198.61		47.4	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 77L	88.262		"	198.61		44.4	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 81L	88.103		"	198.61		44.4	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 104L	111.84		"	198.61		56.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 105L	96.842		"	198.61		48.8	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.91		"	198.61		51.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 118L	92.373		"	198.61		46.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 123L	99.126		"	198.61		49.9	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 126L	110.13		"	198.61		55.5	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 155L	105.84		"	198.61		53.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	187.94		"	397.22		47.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 167L	91.162		"	198.61		45.9	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 169L	99.404		"	198.61		50.1	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 188L	191.42		"	198.61		96.4	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 189L	148.06		"	198.61		74.6	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 202L	179.38		"	198.61		90.3	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 205L	101.25		"	198.61		51.0	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 206L	185.08		"	198.61		93.2	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 208L	124.45		"	198.61		62.7	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 209L	221.45		"	198.61		112	30-140			CR
Surrogate: <sup>13</sup> C PCB Congener # 28L	104.41		"	194.64		53.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	156.07		"	192.65		81.0	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	183.93		"	180.73		102	40-125			
PCB Congener # 1	9.4	9.9	"	9.9305		94.6	30-170			MRL-4, Q-2, J
PCB Congener # 3	8.4	9.9	"	9.9305		84.8	30-170			MRL-4, Q-2, J
PCB Congener # 4	9.1	9.9	"	9.9305		91.4	30-170			MRL-4, Q-2, J
PCB Congener # 15	7.0	9.9	"	9.9305		70.2	30-170			CR, MRL-4, Q-2, J
PCB Congener # 19	7.6	9.9	"	9.9305		76.6	30-170			CR, MRL-4, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**MRL Verification (1203075-PS1)**

Prepared: 03/13/12 Analyzed: 03/16/12

PCB Congener # 37	6.2	9.9	ng/kg	9.9305		62.0	30-170			CR, MRL-4, Q-2, J
PCB Congener # 54	8.0	9.9	"	9.9305		80.2	30-170			CR, MRL-4, Q-2, J
PCB Congener # 77	7.1	9.9	"	9.9305		71.8	30-170			CR, MRL-4, Q-2, J
PCB Congener # 81	7.0	9.9	"	9.9305		70.6	30-170			CR, MRL-4, Q-2, J
PCB Congener #104	8.2	9.9	"	9.9305		83.0	30-170			CR, MRL-4, Q-2, J
PCB Congener #105	9.5	9.9	"	9.9305		96.0	30-170			CR, MRL-4, Q-2, J
PCB Congener #114	7.3	9.9	"	9.9305		73.6	30-170			CR, MRL-4, Q-2, J
PCB Congener #118	16	9.9	"	9.9305		156	30-170			CR, MRL-4
PCB Congener #123	8.0	9.9	"	9.9305		80.2	30-170			CR, MRL-4, Q-2, J
PCB Congener #126	7.1	9.9	"	9.9305		71.6	30-170			MRL-4, Q-2, CR, J
PCB Congener #155	6.6	9.9	"	9.9305		66.4	30-170			CR, MRL-4, Q-2, J
PCB Congener #156 and/or 157	14	9.9	"	19.861		68.3	30-170			CR, MRL-4
PCB Congener #167	7.8	9.9	"	9.9305		79.0	30-170			CR, MRL-4, Q-2, J
PCB Congener #169	7.7	9.9	"	9.9305		77.4	30-170			CR, MRL-4, Q-2, J
PCB Congener #188	8.4	9.9	"	9.9305		84.2	30-170			CR, MRL-4, Q-2, J
PCB Congener #189	8.2	9.9	"	9.9305		82.8	30-170			CR, MRL-4, Q-2, J
PCB Congener #202	8.3	9.9	"	9.9305		83.8	30-170			CR, MRL-4, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203075 - E 1668**

**MRL Verification (1203075-PS1)**

Prepared: 03/13/12 Analyzed: 03/16/12

PCB Congener #205	7.2	9.9	ng/kg	9.9305		72.8	30-170			CR, MRL-4, Q-2, J
PCB Congener #206	10	9.9	"	9.9305		101	30-170			CR, MRL-4
PCB Congener #208	8.2	9.9	"	9.9305		82.4	30-170			MRL-4, Q-2, CR, J
PCB Congener #209	19	20	"	19.901		94.9	30-170			CR, MRL-4, Q-2, J





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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- CR The absolute retention time of the labeled quantitative reference congener in the calibration verification standard is outside the  $\pm 15$  second window
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QI-1 Internal standard was outside of method control limits.
- QS-3 Surrogate recovery is lower than established control limits.



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**October 27, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-369	E113804-01	Fish	8/23/11 12:00	9/13/11 9:53
11-370	E113804-02	Fish	8/23/11 12:00	9/13/11 9:53
11-371	E113804-03	Fish	8/23/11 12:00	9/13/11 9:53
11-372	E113804-04	Fish	8/23/11 12:00	9/13/11 9:53
11-373	E113804-05	Fish	8/23/11 12:00	9/13/11 9:53
11-374	E113804-06	Fish	8/23/11 12:00	9/13/11 9:53
11-375	E113804-07	Fish	8/23/11 12:00	9/13/11 9:53
11-376	E113804-08	Fish	8/23/11 12:00	9/13/11 9:53
11-377	E113804-09	Fish	8/23/11 12:00	9/13/11 9:53
11-378	E113804-10	Fish	8/23/11 12:00	9/13/11 9:53
11-379	E113804-11	Fish	8/23/11 12:00	9/13/11 9:53
11-380	E113804-12	Fish	8/23/11 12:00	9/13/11 9:53
11-381	E113804-13	Fish	8/23/11 12:00	9/13/11 9:53
11-358	E113804-14	Fish	8/24/11 12:00	9/13/11 9:53
11-359	E113804-15	Fish	8/24/11 12:00	9/13/11 9:53
11-360	E113804-16	Fish	8/24/11 12:00	9/13/11 9:53
11-361	E113804-17	Fish	8/24/11 12:00	9/13/11 9:53
11-362	E113804-18	Fish	8/24/11 12:00	9/13/11 9:53
11-363	E113804-19	Fish	8/24/11 12:00	9/13/11 9:53
11-364	E113804-20	Fish	8/24/11 12:00	9/13/11 9:53



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### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QM-4	Matrix Precision outside method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-90-5	PCB Congener # 37	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
36559-22-5	PCB Congener # 42	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-46-8	PCB Congener # 43	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-47-5	PCB Congener # 46	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-47-9	PCB Congener # 48	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35693-99-3	PCB Congener # 52	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
74338-24-2	PCB Congener # 55	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-43-1	PCB Congener # 56	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70424-67-8	PCB Congener # 57	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-49-7	PCB Congener # 58	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
33025-41-1	PCB Congener # 60	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	56	J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-34-7	PCB Congener # 63	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-58-8	PCB Congener # 64	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
32598-10-0	PCB Congener # 66	55	J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-53-8	PCB Congener # 67	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-52-7	PCB Congener # 68	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74338-23-1	PCB Congener # 73	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
32598-13-3	PCB Congener # 77	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-49-1	PCB Congener # 78	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-48-6	PCB Congener # 79	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
33284-52-5	PCB Congener # 80	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-50-4	PCB Congener # 81	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-62-4	PCB Congener # 82	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	170		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-60-2	PCB Congener # 84	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	55		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-57-2	PCB Congener # 89	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-61-3	PCB Congener # 92	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-55-0	PCB Congener # 94	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-54-9	PCB Congener # 96	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
60145-21-3	PCB Congener #103	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
32598-14-4	PCB Congener #105	43	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70424-69-0	PCB Congener #106	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70424-68-9	PCB Congener #107	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-32-0	PCB Congener #111	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-36-9	PCB Congener #112	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A





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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
31508-00-6	PCB Congener #118	160		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-12-7	PCB Congener #120	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
56558-18-0	PCB Congener #121	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
76842-07-4	PCB Congener #122	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
65510-44-3	PCB Congener #123	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
57465-28-8	PCB Congener #126	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-33-1	PCB Congener #127	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	300		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	52		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
51908-16-8	PCB Congener #146	80		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	85		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	380		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	26	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-72-6	PCB Congener #167	13	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35065-30-6	PCB Congener #170	54		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	130		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-68-0	PCB Congener #187	110		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
2136-99-4	PCB Congener #202	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
40186-72-9	PCB Congener #206	52		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-77-1	PCB Congener #208	15	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
2051-24-3	PCB Congener #209	75	J, Q-2	ng/kg	100	4/25/12 16:21	8/07/12 18:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.30		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	20		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-90-5	PCB Congener # 37	2.5	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	11		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
36559-22-5	PCB Congener # 42	13		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	56		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	48		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
35693-99-3	PCB Congener # 52	63		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-43-1	PCB Congener # 56	15		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-58-8	PCB Congener # 64	26		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32598-10-0	PCB Congener # 66	76		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32598-13-3	PCB Congener # 77	3.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	240		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-60-2	PCB Congener # 84	12		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	37		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	72		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	20		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	160		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-61-3	PCB Congener # 92	36		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	57		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32598-14-4	PCB Congener #105	36		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70424-68-9	PCB Congener #107	17		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	120		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
31508-00-6	PCB Congener #118	160		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
65510-44-3	PCB Congener #123	2.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	290		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	82		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
51908-16-8	PCB Congener #146	77		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	130		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	380		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	19		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-72-6	PCB Congener #167	10		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35065-30-6	PCB Congener #170	60		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	59		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-68-0	PCB Congener #187	140		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	60		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
2136-99-4	PCB Congener #202	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-76-0	PCB Congener #203	52		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
40186-72-9	PCB Congener #206	51		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-77-1	PCB Congener #208	20	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
2051-24-3	PCB Congener #209	100		ng/kg	100	4/25/12 16:21	8/07/12 19:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2051-61-8	PCB Congener # 2	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2051-62-9	PCB Congener # 3	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
13029-08-8	PCB Congener # 4	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
16605-91-7	PCB Congener # 5	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
25569-80-6	PCB Congener # 6	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33284-50-3	PCB Congener # 7	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
34883-43-7	PCB Congener # 8	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
34883-39-1	PCB Congener # 9	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33146-45-1	PCB Congener # 10	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2050-67-1	PCB Congener # 11	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
34883-41-5	PCB Congener # 14	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2050-68-2	PCB Congener # 15	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-78-9	PCB Congener # 16	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
37680-66-3	PCB Congener # 17	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-73-4	PCB Congener # 19	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	12		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-85-8	PCB Congener # 22	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
55720-44-0	PCB Congener # 23	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
55702-45-9	PCB Congener # 24	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
55712-37-3	PCB Congener # 25	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-76-7	PCB Congener # 27	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
16606-02-3	PCB Congener # 31	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-77-8	PCB Congener # 32	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
37680-69-6	PCB Congener # 35	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-87-0	PCB Congener # 36	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-90-5	PCB Congener # 37	1.6	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
53555-66-1	PCB Congener # 38	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-88-1	PCB Congener # 39	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
36559-22-5	PCB Congener # 42	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-46-8	PCB Congener # 43	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	43		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-47-5	PCB Congener # 46	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-47-9	PCB Congener # 48	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	31		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
35693-99-3	PCB Congener # 52	43		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
15968-05-5	PCB Congener # 54	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74338-24-2	PCB Congener # 55	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-43-1	PCB Congener # 56	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70424-67-8	PCB Congener # 57	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-49-7	PCB Congener # 58	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33025-41-1	PCB Congener # 60	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	80		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74472-34-7	PCB Congener # 63	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-58-8	PCB Congener # 64	18		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32598-10-0	PCB Congener # 66	53		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-53-8	PCB Congener # 67	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-52-7	PCB Congener # 68	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74338-23-1	PCB Congener # 73	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32598-13-3	PCB Congener # 77	2.7	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-49-1	PCB Congener # 78	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-48-6	PCB Congener # 79	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33284-52-5	PCB Congener # 80	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-50-4	PCB Congener # 81	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-62-4	PCB Congener # 82	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	200		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-60-2	PCB Congener # 84	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	28		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	63		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	16		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-57-2	PCB Congener # 89	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-61-3	PCB Congener # 92	30		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	48		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-55-0	PCB Congener # 94	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-54-9	PCB Congener # 96	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
60145-21-3	PCB Congener #103	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
56558-16-8	PCB Congener #104	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32598-14-4	PCB Congener #105	31		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70424-69-0	PCB Congener #106	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70424-68-9	PCB Congener #107	14		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
39635-32-0	PCB Congener #111	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74472-36-9	PCB Congener #112	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.0	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
31508-00-6	PCB Congener #118	140		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
68194-12-7	PCB Congener #120	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
56558-18-0	PCB Congener #121	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
76842-07-4	PCB Congener #122	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
65510-44-3	PCB Congener #123	3.0	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
57465-28-8	PCB Congener #126	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
39635-33-1	PCB Congener #127	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	280		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-66-8	PCB Congener #130	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
61798-70-7	PCB Congener #131	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
38380-05-1	PCB Congener #132	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35694-04-3	PCB Congener #133	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	64		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
38411-22-2	PCB Congener #136	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35694-06-5	PCB Congener #137	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52712-04-6	PCB Congener #141	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
41411-61-4	PCB Congener #142	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
68194-14-9	PCB Congener #144	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-40-5	PCB Congener #145	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
51908-16-8	PCB Congener #146	77		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	140		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-41-6	PCB Congener #148	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
68194-08-1	PCB Congener #150	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
68194-09-2	PCB Congener #152	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	370		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.9	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	19		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74472-42-7	PCB Congener #158	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
39635-35-3	PCB Congener #159	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-43-8	PCB Congener #161	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
39635-34-2	PCB Congener #162	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-45-0	PCB Congener #164	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-46-1	PCB Congener #165	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-72-6	PCB Congener #167	11	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32774-16-6	PCB Congener #169	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35065-30-6	PCB Congener #170	61		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-74-8	PCB Congener #172	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
38411-25-5	PCB Congener #174	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
40186-70-7	PCB Congener #175	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-65-7	PCB Congener #176	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-70-4	PCB Congener #177	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-67-9	PCB Congener #178	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-64-6	PCB Congener #179	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	150		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-47-2	PCB Congener #181	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
60145-23-5	PCB Congener #182	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-48-3	PCB Congener #184	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-49-4	PCB Congener #186	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-68-0	PCB Congener #187	140		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74487-85-7	PCB Congener #188	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
39635-31-9	PCB Congener #189	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
41411-64-7	PCB Congener #190	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-51-8	PCB Congener #192	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35694-08-7	PCB Congener #194	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-78-2	PCB Congener #195	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
42740-50-1	PCB Congener #196	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
40186-71-8	PCB Congener #201	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
2136-99-4	PCB Congener #202	14	J, Q-2	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-76-0	PCB Congener #203	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-52-9	PCB Congener #204	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-53-0	PCB Congener #205	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
40186-72-9	PCB Congener #206	42	J, Q-2	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-79-3	PCB Congener #207	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-77-1	PCB Congener #208	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
2051-24-3	PCB Congener #209	95	J, Q-2	ng/kg	120	4/25/12 16:21	8/07/12 20:39	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.30		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.20		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2051-61-8	PCB Congener # 2	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2051-62-9	PCB Congener # 3	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
13029-08-8	PCB Congener # 4	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
16605-91-7	PCB Congener # 5	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
25569-80-6	PCB Congener # 6	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33284-50-3	PCB Congener # 7	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
34883-43-7	PCB Congener # 8	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
34883-39-1	PCB Congener # 9	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33146-45-1	PCB Congener # 10	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2050-67-1	PCB Congener # 11	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
34883-41-5	PCB Congener # 14	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2050-68-2	PCB Congener # 15	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-78-9	PCB Congener # 16	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
37680-66-3	PCB Congener # 17	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-73-4	PCB Congener # 19	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-85-8	PCB Congener # 22	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
55720-44-0	PCB Congener # 23	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
55702-45-9	PCB Congener # 24	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
55712-37-3	PCB Congener # 25	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-76-7	PCB Congener # 27	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
16606-02-3	PCB Congener # 31	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-77-8	PCB Congener # 32	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
37680-69-6	PCB Congener # 35	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-87-0	PCB Congener # 36	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-90-5	PCB Congener # 37	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
53555-66-1	PCB Congener # 38	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-88-1	PCB Congener # 39	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
36559-22-5	PCB Congener # 42	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-46-8	PCB Congener # 43	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	39		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-47-5	PCB Congener # 46	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-47-9	PCB Congener # 48	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	26		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
35693-99-3	PCB Congener # 52	40		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
15968-05-5	PCB Congener # 54	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74338-24-2	PCB Congener # 55	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-43-1	PCB Congener # 56	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70424-67-8	PCB Congener # 57	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-49-7	PCB Congener # 58	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33025-41-1	PCB Congener # 60	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	78		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74472-34-7	PCB Congener # 63	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-58-8	PCB Congener # 64	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32598-10-0	PCB Congener # 66	46		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-53-8	PCB Congener # 67	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-52-7	PCB Congener # 68	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74338-23-1	PCB Congener # 73	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32598-13-3	PCB Congener # 77	3.3	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-49-1	PCB Congener # 78	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-48-6	PCB Congener # 79	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33284-52-5	PCB Congener # 80	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-50-4	PCB Congener # 81	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-62-4	PCB Congener # 82	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	160		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-60-2	PCB Congener # 84	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	27		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	63		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-57-2	PCB Congener # 89	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-61-3	PCB Congener # 92	29		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	57		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-55-0	PCB Congener # 94	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-54-9	PCB Congener # 96	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
60145-21-3	PCB Congener #103	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
56558-16-8	PCB Congener #104	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32598-14-4	PCB Congener #105	34		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70424-69-0	PCB Congener #106	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70424-68-9	PCB Congener #107	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
39635-32-0	PCB Congener #111	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74472-36-9	PCB Congener #112	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
31508-00-6	PCB Congener #118	130		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
68194-12-7	PCB Congener #120	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
56558-18-0	PCB Congener #121	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
76842-07-4	PCB Congener #122	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
65510-44-3	PCB Congener #123	2.9	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
57465-28-8	PCB Congener #126	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
39635-33-1	PCB Congener #127	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	250		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-66-8	PCB Congener #130	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
61798-70-7	PCB Congener #131	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
38380-05-1	PCB Congener #132	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35694-04-3	PCB Congener #133	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
38411-22-2	PCB Congener #136	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35694-06-5	PCB Congener #137	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52712-04-6	PCB Congener #141	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
41411-61-4	PCB Congener #142	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
68194-14-9	PCB Congener #144	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-40-5	PCB Congener #145	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
51908-16-8	PCB Congener #146	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	180		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-41-6	PCB Congener #148	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
68194-08-1	PCB Congener #150	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
68194-09-2	PCB Congener #152	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	260		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.4	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	15	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74472-42-7	PCB Congener #158	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
39635-35-3	PCB Congener #159	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-43-8	PCB Congener #161	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
39635-34-2	PCB Congener #162	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-45-0	PCB Congener #164	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-46-1	PCB Congener #165	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-72-6	PCB Congener #167	8.0	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32774-16-6	PCB Congener #169	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35065-30-6	PCB Congener #170	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-74-8	PCB Congener #172	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
38411-25-5	PCB Congener #174	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
40186-70-7	PCB Congener #175	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-65-7	PCB Congener #176	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-70-4	PCB Congener #177	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-67-9	PCB Congener #178	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-64-6	PCB Congener #179	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-47-2	PCB Congener #181	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
60145-23-5	PCB Congener #182	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-48-3	PCB Congener #184	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-49-4	PCB Congener #186	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-68-0	PCB Congener #187	120		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74487-85-7	PCB Congener #188	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
39635-31-9	PCB Congener #189	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
41411-64-7	PCB Congener #190	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-51-8	PCB Congener #192	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35694-08-7	PCB Congener #194	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-78-2	PCB Congener #195	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
42740-50-1	PCB Congener #196	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
40186-71-8	PCB Congener #201	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
2136-99-4	PCB Congener #202	20	J, Q-2	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-76-0	PCB Congener #203	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-52-9	PCB Congener #204	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-53-0	PCB Congener #205	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
40186-72-9	PCB Congener #206	37	J, Q-2	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-79-3	PCB Congener #207	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-77-1	PCB Congener #208	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
2051-24-3	PCB Congener #209	230	U	ng/kg	230	4/25/12 16:21	8/07/12 21:43	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-374**

**Lab ID: E113804-06**

**Station ID: YAD-HRL-AC**

**Matrix: Fish**

**Date Collected: 8/23/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-73-4	PCB Congener # 19	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	21		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
16606-02-3	PCB Congener # 31	12		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-90-5	PCB Congener # 37	1.6	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
36559-22-5	PCB Congener # 42	15		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	58		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-47-9	PCB Congener # 48	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	50		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
35693-99-3	PCB Congener # 52	82		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-43-1	PCB Congener # 56	12		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33025-41-1	PCB Congener # 60	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-58-8	PCB Congener # 64	31		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32598-10-0	PCB Congener # 66	60		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32598-13-3	PCB Congener # 77	3.5	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-62-4	PCB Congener # 82	11		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	210		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-60-2	PCB Congener # 84	21		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	33		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	71		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	21		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	140		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-61-3	PCB Congener # 92	38		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	83		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32598-14-4	PCB Congener #105	35		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70424-68-9	PCB Congener #107	13		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	130		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
31508-00-6	PCB Congener #118	150		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
65510-44-3	PCB Congener #123	3.2	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	210		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	54		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
51908-16-8	PCB Congener #146	58		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	150		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	280		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	18		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-72-6	PCB Congener #167	9.6	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-68-0	PCB Congener #187	120		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
2136-99-4	PCB Congener #202	18	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
40186-72-9	PCB Congener #206	50		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-77-1	PCB Congener #208	24	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
2051-24-3	PCB Congener #209	53	J, Q-2	ng/kg	99	4/25/12 16:21	8/07/12 22:46	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2050-68-2	PCB Congener # 15	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	17		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	63		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-85-8	PCB Congener # 22	14		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
16606-02-3	PCB Congener # 31	33		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-90-5	PCB Congener # 37	5.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	27		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
36559-22-5	PCB Congener # 42	37		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	170		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-47-9	PCB Congener # 48	12		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	120		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
35693-99-3	PCB Congener # 52	190		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	17		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33025-41-1	PCB Congener # 60	18		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	240		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74472-34-7	PCB Congener # 63	10		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-58-8	PCB Congener # 64	64		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32598-10-0	PCB Congener # 66	190		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32598-13-3	PCB Congener # 77	9.2	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-62-4	PCB Congener # 82	23		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	540		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-60-2	PCB Congener # 84	37		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	220		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	62		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	370		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-61-3	PCB Congener # 92	100		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	190		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32598-14-4	PCB Congener #105	140		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70424-68-9	PCB Congener #107	59		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	600		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
31508-00-6	PCB Congener #118	530		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
65510-44-3	PCB Congener #123	8.5	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	150		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1000		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-66-8	PCB Congener #130	54		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
38380-05-1	PCB Congener #132	97		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	290		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52712-04-6	PCB Congener #141	120		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
51908-16-8	PCB Congener #146	270		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	620		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1300		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	18		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	86		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74472-42-7	PCB Congener #158	81		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-45-0	PCB Congener #164	52		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-72-6	PCB Congener #167	48		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35065-30-6	PCB Congener #170	200		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	60		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-74-8	PCB Congener #172	54		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
38411-25-5	PCB Congener #174	120		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-70-4	PCB Congener #177	99		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-67-9	PCB Congener #178	79		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-64-6	PCB Congener #179	68		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	460		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	190		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-68-0	PCB Congener #187	410		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
39635-31-9	PCB Congener #189	7.8	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35694-08-7	PCB Congener #194	130		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-78-2	PCB Congener #195	51		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
42740-50-1	PCB Congener #196	68		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	240		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
2136-99-4	PCB Congener #202	90		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-76-0	PCB Congener #203	220		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-53-0	PCB Congener #205	7.1	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
40186-72-9	PCB Congener #206	210		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-77-1	PCB Congener #208	99		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
2051-24-3	PCB Congener #209	260		ng/kg	100	4/25/12 16:21	8/07/12 23:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		1/03/12 14:00	1/04/12 15:55	ASB E100





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
37680-66-3	PCB Congener # 17	11		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	16		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-73-4	PCB Congener # 19	2.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	170		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-85-8	PCB Congener # 22	19		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
16606-02-3	PCB Congener # 31	40		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-90-5	PCB Congener # 37	2.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
36559-22-5	PCB Congener # 42	70		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	340		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	330		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
35693-99-3	PCB Congener # 52	280		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-43-1	PCB Congener # 56	10		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	34		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33025-41-1	PCB Congener # 60	47		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	400		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74472-34-7	PCB Congener # 63	23		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-58-8	PCB Congener # 64	180		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32598-10-0	PCB Congener # 66	600		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-52-7	PCB Congener # 68	16		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32598-13-3	PCB Congener # 77	6.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1000		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-60-2	PCB Congener # 84	16		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	270		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	330		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	130		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	650		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-61-3	PCB Congener # 92	210		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32598-14-4	PCB Congener #105	300		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1100		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	17		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
31508-00-6	PCB Congener #118	1200		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
68194-12-7	PCB Congener #120	17		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
65510-44-3	PCB Congener #123	22		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	300		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1700		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-66-8	PCB Congener #130	110		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
38380-05-1	PCB Congener #132	52		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	480		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35694-06-5	PCB Congener #137	64		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52712-04-6	PCB Congener #141	190		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
51908-16-8	PCB Congener #146	600		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	690		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2700		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	20		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	160		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74472-42-7	PCB Congener #158	140		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-45-0	PCB Congener #164	96		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-72-6	PCB Congener #167	93		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35065-30-6	PCB Congener #170	540		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	180		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-74-8	PCB Congener #172	130		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
38411-25-5	PCB Congener #174	340		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-67-9	PCB Congener #178	210		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-64-6	PCB Congener #179	150		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1400		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	510		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-68-0	PCB Congener #187	1200		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
39635-31-9	PCB Congener #189	27	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
41411-64-7	PCB Congener #190	76		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35694-08-7	PCB Congener #194	220		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
42740-50-1	PCB Congener #196	94		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	370		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
2136-99-4	PCB Congener #202	160		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-76-0	PCB Congener #203	440		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-53-0	PCB Congener #205	18	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
40186-72-9	PCB Congener #206	370		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-77-1	PCB Congener #208	170		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
2051-24-3	PCB Congener #209	550		ng/kg	100	4/25/12 16:21	8/08/12 13:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.2		%		1/03/12 14:00	1/04/12 15:55	ASB E100





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2051-61-8	PCB Congener # 2	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2051-62-9	PCB Congener # 3	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
13029-08-8	PCB Congener # 4	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
16605-91-7	PCB Congener # 5	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
25569-80-6	PCB Congener # 6	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33284-50-3	PCB Congener # 7	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
34883-43-7	PCB Congener # 8	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
34883-39-1	PCB Congener # 9	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33146-45-1	PCB Congener # 10	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2050-67-1	PCB Congener # 11	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
34883-41-5	PCB Congener # 14	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2050-68-2	PCB Congener # 15	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-78-9	PCB Congener # 16	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
37680-66-3	PCB Congener # 17	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-73-4	PCB Congener # 19	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-85-8	PCB Congener # 22	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
55720-44-0	PCB Congener # 23	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
55702-45-9	PCB Congener # 24	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
55712-37-3	PCB Congener # 25	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-76-7	PCB Congener # 27	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
16606-02-3	PCB Congener # 31	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-77-8	PCB Congener # 32	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
37680-69-6	PCB Congener # 35	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-87-0	PCB Congener # 36	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-90-5	PCB Congener # 37	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
53555-66-1	PCB Congener # 38	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-88-1	PCB Congener # 39	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
36559-22-5	PCB Congener # 42	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-46-8	PCB Congener # 43	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	69		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-47-5	PCB Congener # 46	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-47-9	PCB Congener # 48	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
35693-99-3	PCB Congener # 52	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
15968-05-5	PCB Congener # 54	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74338-24-2	PCB Congener # 55	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-43-1	PCB Congener # 56	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70424-67-8	PCB Congener # 57	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-49-7	PCB Congener # 58	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33025-41-1	PCB Congener # 60	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	89		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74472-34-7	PCB Congener # 63	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-58-8	PCB Congener # 64	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32598-10-0	PCB Congener # 66	180		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-53-8	PCB Congener # 67	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-52-7	PCB Congener # 68	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74338-23-1	PCB Congener # 73	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32598-13-3	PCB Congener # 77	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-49-1	PCB Congener # 78	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-48-6	PCB Congener # 79	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33284-52-5	PCB Congener # 80	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-50-4	PCB Congener # 81	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-62-4	PCB Congener # 82	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1600		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-60-2	PCB Congener # 84	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	390		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	150		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-57-2	PCB Congener # 89	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-61-3	PCB Congener # 92	190		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-55-0	PCB Congener # 94	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-54-9	PCB Congener # 96	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
60145-21-3	PCB Congener #103	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
56558-16-8	PCB Congener #104	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32598-14-4	PCB Congener #105	670		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70424-69-0	PCB Congener #106	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70424-68-9	PCB Congener #107	210		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	510		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
39635-32-0	PCB Congener #111	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74472-36-9	PCB Congener #112	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	46	J, Q-2	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
31508-00-6	PCB Congener #118	2700		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
68194-12-7	PCB Congener #120	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
56558-18-0	PCB Congener #121	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
76842-07-4	PCB Congener #122	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
65510-44-3	PCB Congener #123	55	J, Q-2	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
57465-28-8	PCB Congener #126	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
39635-33-1	PCB Congener #127	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	1100		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	7400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-66-8	PCB Congener #130	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
61798-70-7	PCB Congener #131	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
38380-05-1	PCB Congener #132	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35694-04-3	PCB Congener #133	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	580		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
38411-22-2	PCB Congener #136	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35694-06-5	PCB Congener #137	350		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52712-04-6	PCB Congener #141	650		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
41411-61-4	PCB Congener #142	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
68194-14-9	PCB Congener #144	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-40-5	PCB Congener #145	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
51908-16-8	PCB Congener #146	2300		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	870		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-41-6	PCB Congener #148	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
68194-08-1	PCB Congener #150	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
68194-09-2	PCB Congener #152	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	9300		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	48	J, Q-2	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	700		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74472-42-7	PCB Congener #158	670		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
39635-35-3	PCB Congener #159	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-43-8	PCB Congener #161	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
39635-34-2	PCB Congener #162	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-45-0	PCB Congener #164	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-46-1	PCB Congener #165	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-72-6	PCB Congener #167	410		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32774-16-6	PCB Congener #169	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35065-30-6	PCB Congener #170	2400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	650		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-74-8	PCB Congener #172	690		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
38411-25-5	PCB Congener #174	880		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
40186-70-7	PCB Congener #175	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-65-7	PCB Congener #176	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-70-4	PCB Congener #177	620		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-67-9	PCB Congener #178	540		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-64-6	PCB Congener #179	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	6700		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-47-2	PCB Congener #181	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
60145-23-5	PCB Congener #182	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	2000		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-48-3	PCB Congener #184	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-49-4	PCB Congener #186	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-68-0	PCB Congener #187	4400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74487-85-7	PCB Congener #188	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
39635-31-9	PCB Congener #189	100	J, Q-2	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
41411-64-7	PCB Congener #190	600		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-377**

**Lab ID: E113804-09**

**Station ID: YAD-HRL-AC**

**Matrix: Fish**

**Date Collected: 8/23/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-51-8	PCB Congener #192	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35694-08-7	PCB Congener #194	1100		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-78-2	PCB Congener #195	490		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
42740-50-1	PCB Congener #196	730		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	2200		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
40186-71-8	PCB Congener #201	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
2136-99-4	PCB Congener #202	420		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-76-0	PCB Congener #203	2300		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-52-9	PCB Congener #204	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-53-0	PCB Congener #205	78	J, Q-2	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
40186-72-9	PCB Congener #206	1400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-79-3	PCB Congener #207	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-77-1	PCB Congener #208	590		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
2051-24-3	PCB Congener #209	2700		ng/kg	620	4/25/12 16:21	8/08/12 14:27	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	27		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
16606-02-3	PCB Congener # 31	12		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-90-5	PCB Congener # 37	3.5	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	14		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
36559-22-5	PCB Congener # 42	17		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	86		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	66		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
35693-99-3	PCB Congener # 52	110		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-43-1	PCB Congener # 56	18		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33025-41-1	PCB Congener # 60	11		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	130		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-58-8	PCB Congener # 64	41		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32598-10-0	PCB Congener # 66	98		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32598-13-3	PCB Congener # 77	5.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	280		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-60-2	PCB Congener # 84	11		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	60		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	29		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	190		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-61-3	PCB Congener # 92	45		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	81		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32598-14-4	PCB Congener #105	64		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70424-68-9	PCB Congener #107	26		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	310		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
31508-00-6	PCB Congener #118	240		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
65510-44-3	PCB Congener #123	5.6	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	67		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	480		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
51908-16-8	PCB Congener #146	150		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	200		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	600		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	5.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	34		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35065-30-6	PCB Congener #170	97		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	270		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	96		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-68-0	PCB Congener #187	240		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	75		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
2136-99-4	PCB Congener #202	27	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-76-0	PCB Congener #203	97		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
40186-72-9	PCB Congener #206	67		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-77-1	PCB Congener #208	25	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
2051-24-3	PCB Congener #209	110		ng/kg	100	4/25/12 16:21	8/08/12 15:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-90-5	PCB Congener # 37	5.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	29		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
36559-22-5	PCB Congener # 42	29		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	150		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-47-9	PCB Congener # 48	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
35693-99-3	PCB Congener # 52	180		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-43-1	PCB Congener # 56	31		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	15		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33025-41-1	PCB Congener # 60	20		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	210		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-58-8	PCB Congener # 64	66		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32598-10-0	PCB Congener # 66	210		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32598-13-3	PCB Congener # 77	7.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-62-4	PCB Congener # 82	13		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	450		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-60-2	PCB Congener # 84	25		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	170		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	43		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	320		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-61-3	PCB Congener # 92	85		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32598-14-4	PCB Congener #105	110		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70424-68-9	PCB Congener #107	42		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	490		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.3	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
31508-00-6	PCB Congener #118	430		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
65510-44-3	PCB Congener #123	7.9	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	120		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	830		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38380-05-1	PCB Congener #132	50		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52712-04-6	PCB Congener #141	79		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
51908-16-8	PCB Congener #146	270		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	370		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1100		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	7.9	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	62		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74472-42-7	PCB Congener #158	61		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-72-6	PCB Congener #167	34		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35065-30-6	PCB Congener #170	160		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38411-25-5	PCB Congener #174	79		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-70-4	PCB Congener #177	71		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-67-9	PCB Congener #178	63		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	380		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	150		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-68-0	PCB Congener #187	370		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
39635-31-9	PCB Congener #189	7.6	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35694-08-7	PCB Congener #194	82		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	150		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
2136-99-4	PCB Congener #202	52		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-76-0	PCB Congener #203	140		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
40186-72-9	PCB Congener #206	130		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-77-1	PCB Congener #208	49	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
2051-24-3	PCB Congener #209	240		ng/kg	99	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2050-68-2	PCB Congener # 15	2.3	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	11		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-73-4	PCB Congener # 19	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	65		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
16606-02-3	PCB Congener # 31	31		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-90-5	PCB Congener # 37	5.4	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	38		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
36559-22-5	PCB Congener # 42	41		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	180		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-47-9	PCB Congener # 48	13		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	150		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
35693-99-3	PCB Congener # 52	220		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-43-1	PCB Congener # 56	41		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	20		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33025-41-1	PCB Congener # 60	23		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	300		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-58-8	PCB Congener # 64	81		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32598-10-0	PCB Congener # 66	290		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32598-13-3	PCB Congener # 77	9.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-62-4	PCB Congener # 82	25		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	590		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-60-2	PCB Congener # 84	32		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	140		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	240		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	63		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	440		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	170		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32598-14-4	PCB Congener #105	150		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70424-68-9	PCB Congener #107	59		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	740		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A





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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	9.5	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
31508-00-6	PCB Congener #118	590		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
65510-44-3	PCB Congener #123	12		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1100		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-66-8	PCB Congener #130	52		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
38380-05-1	PCB Congener #132	81		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	230		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52712-04-6	PCB Congener #141	100		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
51908-16-8	PCB Congener #146	340		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	480		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1400		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	14		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	81		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74472-42-7	PCB Congener #158	78		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-72-6	PCB Congener #167	46		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35065-30-6	PCB Congener #170	180		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	68		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-74-8	PCB Congener #172	55		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
38411-25-5	PCB Congener #174	110		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-70-4	PCB Congener #177	77		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-67-9	PCB Congener #178	69		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	610		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	190		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-68-0	PCB Congener #187	460		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
39635-31-9	PCB Congener #189	13	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35694-08-7	PCB Congener #194	100		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	170		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
2136-99-4	PCB Congener #202	62		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-76-0	PCB Congener #203	200		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-53-0	PCB Congener #205	7.5	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
40186-72-9	PCB Congener #206	180		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-77-1	PCB Congener #208	79		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
2051-24-3	PCB Congener #209	320		ng/kg	99	4/25/12 16:21	8/08/12 17:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2050-68-2	PCB Congener # 15	2.6	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
16606-02-3	PCB Congener # 31	67		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-90-5	PCB Congener # 37	7.4	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	82		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
36559-22-5	PCB Congener # 42	80		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-46-8	PCB Congener # 43	10		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	350		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	18		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-47-9	PCB Congener # 48	20		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	250		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
35693-99-3	PCB Congener # 52	500		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-43-1	PCB Congener # 56	73		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	39		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33025-41-1	PCB Congener # 60	45		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	550		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74472-34-7	PCB Congener # 63	21		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-58-8	PCB Congener # 64	190		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32598-10-0	PCB Congener # 66	470		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-52-7	PCB Congener # 68	12		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	11		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32598-13-3	PCB Congener # 77	19		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-62-4	PCB Congener # 82	60		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1100		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-60-2	PCB Congener # 84	86		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	270		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	530		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	140		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	900		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-61-3	PCB Congener # 92	260		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	420		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
60145-21-3	PCB Congener #103	15		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32598-14-4	PCB Congener #105	320		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	27		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1800		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	19		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
31508-00-6	PCB Congener #118	1100		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
68194-12-7	PCB Congener #120	18		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
65510-44-3	PCB Congener #123	19		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	360		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2300		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-66-8	PCB Congener #130	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38380-05-1	PCB Congener #132	210		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35694-04-3	PCB Congener #133	53		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	580		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38411-22-2	PCB Congener #136	59		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35694-06-5	PCB Congener #137	87		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52712-04-6	PCB Congener #141	220		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
51908-16-8	PCB Congener #146	750		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1200		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2400		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	31		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	180		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74472-42-7	PCB Congener #158	180		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-45-0	PCB Congener #164	120		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-72-6	PCB Congener #167	98		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35065-30-6	PCB Congener #170	450		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	150		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-74-8	PCB Congener #172	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38411-25-5	PCB Congener #174	240		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-70-4	PCB Congener #177	200		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-67-9	PCB Congener #178	160		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-64-6	PCB Congener #179	99		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1300		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	460		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-68-0	PCB Congener #187	1100		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
39635-31-9	PCB Congener #189	21	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
41411-64-7	PCB Congener #190	100		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35694-08-7	PCB Congener #194	240		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	440		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
40186-71-8	PCB Congener #201	60		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
2136-99-4	PCB Congener #202	140		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-76-0	PCB Congener #203	450		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-53-0	PCB Congener #205	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
40186-72-9	PCB Congener #206	410		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-79-3	PCB Congener #207	60		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-77-1	PCB Congener #208	180		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
2051-24-3	PCB Congener #209	730		ng/kg	100	4/25/12 16:21	8/08/12 18:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2050-68-2	PCB Congener # 15	3.4	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	12		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	40		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-85-8	PCB Congener # 22	13		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
16606-02-3	PCB Congener # 31	30		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-90-5	PCB Congener # 37	7.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	31		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
36559-22-5	PCB Congener # 42	24		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	120		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-47-9	PCB Congener # 48	11		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	76		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
35693-99-3	PCB Congener # 52	160		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-43-1	PCB Congener # 56	34		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33025-41-1	PCB Congener # 60	23		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	190		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-58-8	PCB Congener # 64	55		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32598-10-0	PCB Congener # 66	150		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32598-13-3	PCB Congener # 77	6.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-62-4	PCB Congener # 82	18		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	380		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-60-2	PCB Congener # 84	18		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	190		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	35		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	350		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-61-3	PCB Congener # 92	93		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32598-14-4	PCB Congener #105	140		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70424-68-9	PCB Congener #107	49		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	11		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	540		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	8.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
31508-00-6	PCB Congener #118	470		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
65510-44-3	PCB Congener #123	8.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1000		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-66-8	PCB Congener #130	53		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
38380-05-1	PCB Congener #132	77		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	210		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52712-04-6	PCB Congener #141	120		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
51908-16-8	PCB Congener #146	270		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	380		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1200		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	18		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	83		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74472-42-7	PCB Congener #158	86		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-72-6	PCB Congener #167	39		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	62		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
38411-25-5	PCB Congener #174	85		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-67-9	PCB Congener #178	79		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	560		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	200		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-68-0	PCB Congener #187	430		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
39635-31-9	PCB Congener #189	9.2	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35694-08-7	PCB Congener #194	100		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	220		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
2136-99-4	PCB Congener #202	92		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-76-0	PCB Congener #203	230		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-53-0	PCB Congener #205	8.0	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
40186-72-9	PCB Congener #206	220		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-77-1	PCB Congener #208	71		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
2051-24-3	PCB Congener #209	160		ng/kg	100	4/25/12 16:21	8/08/12 19:46	EPA 1668A





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2051-61-8	PCB Congener # 2	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2051-62-9	PCB Congener # 3	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
13029-08-8	PCB Congener # 4	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
16605-91-7	PCB Congener # 5	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
25569-80-6	PCB Congener # 6	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33284-50-3	PCB Congener # 7	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
34883-43-7	PCB Congener # 8	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
34883-39-1	PCB Congener # 9	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33146-45-1	PCB Congener # 10	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2050-67-1	PCB Congener # 11	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
34883-41-5	PCB Congener # 14	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2050-68-2	PCB Congener # 15	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-78-9	PCB Congener # 16	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
37680-66-3	PCB Congener # 17	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-73-4	PCB Congener # 19	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	45		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-85-8	PCB Congener # 22	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
55720-44-0	PCB Congener # 23	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
55702-45-9	PCB Congener # 24	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
55712-37-3	PCB Congener # 25	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-76-7	PCB Congener # 27	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
16606-02-3	PCB Congener # 31	30		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-77-8	PCB Congener # 32	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
37680-69-6	PCB Congener # 35	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-87-0	PCB Congener # 36	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-90-5	PCB Congener # 37	8.1	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
53555-66-1	PCB Congener # 38	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-88-1	PCB Congener # 39	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	23		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
36559-22-5	PCB Congener # 42	23		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-46-8	PCB Congener # 43	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	130		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-47-5	PCB Congener # 46	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-47-9	PCB Congener # 48	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	93		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
35693-99-3	PCB Congener # 52	160		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
15968-05-5	PCB Congener # 54	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74338-24-2	PCB Congener # 55	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-43-1	PCB Congener # 56	23		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70424-67-8	PCB Congener # 57	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-49-7	PCB Congener # 58	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33025-41-1	PCB Congener # 60	20		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	180		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74472-34-7	PCB Congener # 63	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-58-8	PCB Congener # 64	52		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32598-10-0	PCB Congener # 66	160		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-53-8	PCB Congener # 67	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-52-7	PCB Congener # 68	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74338-23-1	PCB Congener # 73	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32598-13-3	PCB Congener # 77	5.6	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-49-1	PCB Congener # 78	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-48-6	PCB Congener # 79	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33284-52-5	PCB Congener # 80	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-50-4	PCB Congener # 81	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-62-4	PCB Congener # 82	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	400		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-60-2	PCB Congener # 84	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	170		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	33		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-57-2	PCB Congener # 89	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	340		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-61-3	PCB Congener # 92	94		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	95		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-55-0	PCB Congener # 94	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-54-9	PCB Congener # 96	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
60145-21-3	PCB Congener #103	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
56558-16-8	PCB Congener #104	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32598-14-4	PCB Congener #105	140		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70424-69-0	PCB Congener #106	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70424-68-9	PCB Congener #107	47		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	420		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
39635-32-0	PCB Congener #111	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74472-36-9	PCB Congener #112	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.1	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
31508-00-6	PCB Congener #118	480		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
68194-12-7	PCB Congener #120	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
56558-18-0	PCB Congener #121	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
76842-07-4	PCB Congener #122	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
65510-44-3	PCB Congener #123	8.3	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
57465-28-8	PCB Congener #126	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
39635-33-1	PCB Congener #127	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	960		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-66-8	PCB Congener #130	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
61798-70-7	PCB Congener #131	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
38380-05-1	PCB Congener #132	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35694-04-3	PCB Congener #133	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
38411-22-2	PCB Congener #136	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35694-06-5	PCB Congener #137	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52712-04-6	PCB Congener #141	97		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
41411-61-4	PCB Congener #142	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
68194-14-9	PCB Congener #144	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-40-5	PCB Congener #145	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
51908-16-8	PCB Congener #146	250		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	300		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-41-6	PCB Congener #148	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
68194-08-1	PCB Congener #150	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
68194-09-2	PCB Congener #152	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1100		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	20		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	71		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74472-42-7	PCB Congener #158	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
39635-35-3	PCB Congener #159	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-43-8	PCB Congener #161	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
39635-34-2	PCB Congener #162	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-45-0	PCB Congener #164	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-46-1	PCB Congener #165	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-72-6	PCB Congener #167	38		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32774-16-6	PCB Congener #169	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35065-30-6	PCB Congener #170	200		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-74-8	PCB Congener #172	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
38411-25-5	PCB Congener #174	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
40186-70-7	PCB Congener #175	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-65-7	PCB Congener #176	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-70-4	PCB Congener #177	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-67-9	PCB Congener #178	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-64-6	PCB Congener #179	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	490		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-47-2	PCB Congener #181	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
60145-23-5	PCB Congener #182	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	180		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-48-3	PCB Congener #184	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-49-4	PCB Congener #186	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-68-0	PCB Congener #187	380		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74487-85-7	PCB Congener #188	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
39635-31-9	PCB Congener #189	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
41411-64-7	PCB Congener #190	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-51-8	PCB Congener #192	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35694-08-7	PCB Congener #194	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-78-2	PCB Congener #195	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
42740-50-1	PCB Congener #196	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
40186-71-8	PCB Congener #201	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
2136-99-4	PCB Congener #202	60	J, Q-2	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-76-0	PCB Congener #203	140		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-52-9	PCB Congener #204	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-53-0	PCB Congener #205	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-79-3	PCB Congener #207	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-77-1	PCB Congener #208	57	J, Q-2	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
2051-24-3	PCB Congener #209	130	J, Q-2	ng/kg	180	4/25/12 16:21	8/08/12 20:50	EPA 1668A



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## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		1/04/12 12:14	1/05/12 10:40	ASB E100





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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2050-68-2	PCB Congener # 15	2.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	19		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
16606-02-3	PCB Congener # 31	14		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-90-5	PCB Congener # 37	3.4	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	17		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	44		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	32		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
35693-99-3	PCB Congener # 52	52		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-43-1	PCB Congener # 56	12		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	56		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-58-8	PCB Congener # 64	22		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32598-10-0	PCB Congener # 66	35		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32598-13-3	PCB Congener # 77	2.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	90		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-60-2	PCB Congener # 84	14		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	28		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	54		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	14		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	90		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-61-3	PCB Congener # 92	21		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	55		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32598-14-4	PCB Congener #105	34		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70424-68-9	PCB Congener #107	10		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	210		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
31508-00-6	PCB Congener #118	110		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
65510-44-3	PCB Congener #123	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	230		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	59		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
51908-16-8	PCB Congener #146	60		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	120		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	250		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	5.9	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	17		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-72-6	PCB Congener #167	9.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35065-30-6	PCB Congener #170	51		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-68-0	PCB Congener #187	92		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
2136-99-4	PCB Congener #202	22	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-76-0	PCB Congener #203	50		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
40186-72-9	PCB Congener #206	48	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-77-1	PCB Congener #208	32	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
2051-24-3	PCB Congener #209	54	J, Q-2	ng/kg	100	4/25/12 16:21	8/08/12 21:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		1/04/12 12:14	1/05/12 10:40	ASB E100





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
13029-08-8	PCB Congener # 4	1.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2050-68-2	PCB Congener # 15	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	15		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-73-4	PCB Congener # 19	1.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	37	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
16606-02-3	PCB Congener # 31	24	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-90-5	PCB Congener # 37	5.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	36		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
36559-22-5	PCB Congener # 42	27		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	120		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-47-9	PCB Congener # 48	12		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	88		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
35693-99-3	PCB Congener # 52	140		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-43-1	PCB Congener # 56	24		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33025-41-1	PCB Congener # 60	16		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	150	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-58-8	PCB Congener # 64	54		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32598-10-0	PCB Congener # 66	120		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32598-13-3	PCB Congener # 77	6.2	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-62-4	PCB Congener # 82	20		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	330		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-60-2	PCB Congener # 84	29	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	90	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	170		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	37		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-61-3	PCB Congener # 92	81		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	150		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32598-14-4	PCB Congener #105	110	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70424-68-9	PCB Congener #107	38	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	580	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.5	J, Q-2, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
31508-00-6	PCB Congener #118	370	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
65510-44-3	PCB Congener #123	6.5	J, Q-2, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	860	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
38380-05-1	PCB Congener #132	70		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52712-04-6	PCB Congener #141	100	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
51908-16-8	PCB Congener #146	220	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	410		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	940	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	16	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	62	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74472-42-7	PCB Congener #158	68		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-72-6	PCB Congener #167	33	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35065-30-6	PCB Congener #170	150	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
38411-25-5	PCB Congener #174	85		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-70-4	PCB Congener #177	72		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	340	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	150	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-68-0	PCB Congener #187	370	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
39635-31-9	PCB Congener #189	7.0	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35694-08-7	PCB Congener #194	71		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	150		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
2136-99-4	PCB Congener #202	71		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-76-0	PCB Congener #203	160	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
40186-72-9	PCB Congener #206	190	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-77-1	PCB Congener #208	83	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
2051-24-3	PCB Congener #209	160		ng/kg	100	4/25/12 16:21	8/08/12 22:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.0		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2050-68-2	PCB Congener # 15	5.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
37680-66-3	PCB Congener # 17	18		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	22		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-73-4	PCB Congener # 19	3.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	69		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	14		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-85-8	PCB Congener # 22	16		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
16606-02-3	PCB Congener # 31	44		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-90-5	PCB Congener # 37	8.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	55		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
36559-22-5	PCB Congener # 42	50		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	180		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	20		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-47-9	PCB Congener # 48	16		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	130		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	13		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
35693-99-3	PCB Congener # 52	240		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-43-1	PCB Congener # 56	39		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	18		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33025-41-1	PCB Congener # 60	18		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	210		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-58-8	PCB Congener # 64	76		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32598-10-0	PCB Congener # 66	140		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A





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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32598-13-3	PCB Congener # 77	7.2	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-62-4	PCB Congener # 82	25		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	280		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-60-2	PCB Congener # 84	60		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	69		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	190		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	55		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-61-3	PCB Congener # 92	78		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	240		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32598-14-4	PCB Congener #105	83		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70424-68-9	PCB Congener #107	27		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	380		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.9	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
31508-00-6	PCB Congener #118	280		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
65510-44-3	PCB Congener #123	5.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	78		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	640		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
38380-05-1	PCB Congener #132	120		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	180		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52712-04-6	PCB Congener #141	78		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
51908-16-8	PCB Congener #146	160		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	430		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	650		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	15		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	46		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-72-6	PCB Congener #167	23		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35065-30-6	PCB Congener #170	120		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
38411-25-5	PCB Congener #174	110		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-70-4	PCB Congener #177	80		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-67-9	PCB Congener #178	56		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-64-6	PCB Congener #179	59		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	300		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	120		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-68-0	PCB Congener #187	280		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35694-08-7	PCB Congener #194	53		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
2136-99-4	PCB Congener #202	61		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-76-0	PCB Congener #203	110		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-77-1	PCB Congener #208	75		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	99	4/25/12 16:21	8/09/12 0:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.7		%		1/04/12 12:14	1/05/12 10:40	ASB E100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
13029-08-8	PCB Congener # 4	2.1	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2050-68-2	PCB Congener # 15	3.0	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	13		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-73-4	PCB Congener # 19	1.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	48		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-85-8	PCB Congener # 22	11		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
16606-02-3	PCB Congener # 31	30		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-90-5	PCB Congener # 37	6.2	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	40		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
36559-22-5	PCB Congener # 42	28		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	130		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	14		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-47-9	PCB Congener # 48	13		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	74		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
35693-99-3	PCB Congener # 52	170		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-43-1	PCB Congener # 56	27		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33025-41-1	PCB Congener # 60	13		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	130		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-58-8	PCB Congener # 64	51		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32598-10-0	PCB Congener # 66	110		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32598-13-3	PCB Congener # 77	5.0	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-62-4	PCB Congener # 82	20		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	200		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-60-2	PCB Congener # 84	39		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	57		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	140		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	34		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	230		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-61-3	PCB Congener # 92	54		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	160		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32598-14-4	PCB Congener #105	68		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70424-68-9	PCB Congener #107	20		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	260		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.4	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
31508-00-6	PCB Congener #118	210		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
65510-44-3	PCB Congener #123	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	68		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	410		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
38380-05-1	PCB Congener #132	79		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	140		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52712-04-6	PCB Congener #141	63		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
51908-16-8	PCB Congener #146	98		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	290		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	470		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	9.9		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	32		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35065-30-6	PCB Congener #170	82		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
38411-25-5	PCB Congener #174	88		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	240		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	77		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-68-0	PCB Congener #187	180		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	94		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
2136-99-4	PCB Congener #202	47	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-76-0	PCB Congener #203	91		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
40186-72-9	PCB Congener #206	120		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-77-1	PCB Congener #208	62		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
2051-24-3	PCB Congener #209	85	J, Q-2	ng/kg	99	4/25/12 16:21	8/09/12 12:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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## PCB Congeners

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-364**

**Lab ID: E113804-20**

**Station ID: YAD-HRL-UR**

**Matrix: Fish**

**Date Collected: 8/24/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
13029-08-8	PCB Congener # 4	3.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2050-68-2	PCB Congener # 15	5.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-78-9	PCB Congener # 16	12		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
37680-66-3	PCB Congener # 17	25		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	37		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-73-4	PCB Congener # 19	4.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	120		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	22		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-85-8	PCB Congener # 22	21		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	14		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
16606-02-3	PCB Congener # 31	60		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-77-8	PCB Congener # 32	16		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-90-5	PCB Congener # 37	11		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	84		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
36559-22-5	PCB Congener # 42	68		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	320		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	25		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-47-9	PCB Congener # 48	24		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	200		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	13		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
35693-99-3	PCB Congener # 52	380		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-43-1	PCB Congener # 56	49		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	32		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33025-41-1	PCB Congener # 60	37		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	400		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74472-34-7	PCB Congener # 63	15		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-58-8	PCB Congener # 64	120		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32598-10-0	PCB Congener # 66	320		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32598-13-3	PCB Congener # 77	12		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-62-4	PCB Congener # 82	44		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	650		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-60-2	PCB Congener # 84	63		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	160		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	320		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	93		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	660		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-61-3	PCB Congener # 92	160		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	340		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
60145-21-3	PCB Congener #103	11		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32598-14-4	PCB Congener #105	230		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70424-68-9	PCB Congener #107	72		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	20		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	620		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	15		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
31508-00-6	PCB Congener #118	720		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
65510-44-3	PCB Congener #123	15		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	240		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1800		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-66-8	PCB Congener #130	89		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
38380-05-1	PCB Congener #132	170		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	420		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35694-06-5	PCB Congener #137	68		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
51908-16-8	PCB Congener #146	420		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	910		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1900		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	41		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	130		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74472-42-7	PCB Congener #158	140		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-45-0	PCB Congener #164	91		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-72-6	PCB Congener #167	73		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32774-16-6	PCB Congener #169	21	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35065-30-6	PCB Congener #170	310		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	93		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-74-8	PCB Congener #172	72		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
38411-25-5	PCB Congener #174	240		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-67-9	PCB Congener #178	100		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-64-6	PCB Congener #179	63		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	980		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	310		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-48-3	PCB Congener #184	53		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-68-0	PCB Congener #187	750		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
39635-31-9	PCB Congener #189	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
41411-64-7	PCB Congener #190	65		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35694-08-7	PCB Congener #194	190		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-78-2	PCB Congener #195	75		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
42740-50-1	PCB Congener #196	85		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	340		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
2136-99-4	PCB Congener #202	130		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-76-0	PCB Congener #203	360		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-53-0	PCB Congener #205	15	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
40186-72-9	PCB Congener #206	430		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-77-1	PCB Congener #208	160		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
2051-24-3	PCB Congener #209	360		ng/kg	100	4/25/12 16:21	8/09/12 13:18	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-364**

**Lab ID: E113804-20**

**Station ID: YAD-HRL-UR**

**Matrix: Fish**

**Date Collected: 8/24/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.6		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	102.02		ng/kg	199.80		51.1	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	146.13		"	199.80		73.1	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	274.25		"	199.80		137	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	159.94		"	199.80		80.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	217.68		"	199.80		109	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	61.698		"	199.80		30.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	145.51		"	199.80		72.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	73.167		"	199.80		36.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	56.364		"	199.80		28.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	195.18		"	199.80		97.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	92.687		"	199.80		46.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	93.586		"	199.80		46.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	95.405		"	199.80		47.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	79.101		"	199.80		39.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	78.222		"	199.80		39.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	132.49		"	199.80		66.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	151.07		"	399.60		37.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	70.629		"	199.80		35.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	91.009		"	199.80		45.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	219.68		"	199.80		110	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	97.802		"	199.80		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	217.78		"	199.80		109	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	152.55		"	199.80		76.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	133.77		"	199.80		66.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	191.51		"	199.80		95.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	116.58		"	199.80		58.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	94.226		"	195.80		48.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	170.31		"	193.81		87.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	187.83		"	181.82		103	30-135			
PCB Congener # 1	U	10	"							U
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	U	10	"							U
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	U	10	"							U
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	U	10	"							U
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	U	10	"							U
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	U	10	"							U
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U
PCB Congener # 58	U	10	"							U



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 59 and/or 62,75	U	10	ng/kg							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	U	10	"							U
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	U	10	"							U
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	2.5375	10	"							B-3, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	U	10	"							U
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	7.6124	10	"							B-3, Q-2, J



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	50	"							U
PCB Congener #129 and/or 138,160,163	U	50	"							U
PCB Congener #130	U	50	"							U
PCB Congener #131	U	50	"							U
PCB Congener #132	U	50	"							U
PCB Congener #133	U	50	"							U
PCB Congener #134 and/or 143	U	50	"							U
PCB Congener #135 and/or 151,154	U	50	"							U
PCB Congener #136	U	50	"							U
PCB Congener #137	U	50	"							U
PCB Congener #139 and/or 140	U	50	"							U
PCB Congener #141	U	50	"							U
PCB Congener #142	U	50	"							U
PCB Congener #144	U	50	"							U
PCB Congener #145	U	50	"							U
PCB Congener #146	U	50	"							U
PCB Congener #147 and/or 149	U	50	"							U
PCB Congener #148	U	50	"							U
PCB Congener #150	U	50	"							U
PCB Congener #152	U	50	"							U
PCB Congener #153 and/or 168	U	50	"							U
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	50	"							U
PCB Congener #159	U	50	"							U
PCB Congener #161	U	50	"							U
PCB Congener #162	U	50	"							U
PCB Congener #164	U	50	"							U
PCB Congener #165	U	50	"							U
PCB Congener #167	U	10	"							U
PCB Congener #169	U	50	"							U
PCB Congener #170	U	50	"							U
PCB Congener #171 and/or 173	U	50	"							U
PCB Congener #172	U	50	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 08/07/12

PCB Congener #174	U	50	ng/kg							U
PCB Congener #175	U	50	"							U
PCB Congener #176	U	50	"							U
PCB Congener #177	U	50	"							U
PCB Congener #178	U	50	"							U
PCB Congener #179	U	50	"							U
PCB Congener #180 and/or 193	U	50	"							U
PCB Congener #181	U	50	"							U
PCB Congener #182	U	50	"							U
PCB Congener #183 and/or 185	U	50	"							U
PCB Congener #184	U	50	"							U
PCB Congener #186	U	50	"							U
PCB Congener #187	U	50	"							U
PCB Congener #188	U	50	"							U
PCB Congener #189	U	50	"							U
PCB Congener #190	U	50	"							U
PCB Congener #191	U	50	"							U
PCB Congener #192	U	50	"							U
PCB Congener #194	U	50	"							U
PCB Congener #195	U	50	"							U
PCB Congener #196	U	50	"							U
PCB Congener #197 and/or 200	U	50	"							U
PCB Congener #198 and/or 199	U	50	"							U
PCB Congener #201	U	50	"							U
PCB Congener #202	U	50	"							U
PCB Congener #203	U	50	"							U
PCB Congener #204	U	50	"							U
PCB Congener #205	U	50	"							U
PCB Congener #206	U	50	"							U
PCB Congener #207	U	50	"							U
PCB Congener #208	U	50	"							U
PCB Congener #209	U	100	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**LCS (1204125-BS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	98.391		ng/kg	198.61		49.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	112.17		"	198.61		56.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	220.85		"	198.61		111	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	109.08		"	198.61		54.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	174.70		"	198.61		88.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	80.497		"	198.61		40.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	203.26		"	198.61		102	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	82.264		"	198.61		41.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	59.940		"	198.61		30.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	149.91		"	198.61		75.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	77.577		"	198.61		39.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	75.472		"	198.61		38.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	68.342		"	198.61		34.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	67.110		"	198.61		33.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	66.753		"	198.61		33.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	136.33		"	198.61		68.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	121.65		"	397.22		30.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	69.355		"	198.61		34.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	71.400		"	198.61		36.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	196.03		"	198.61		98.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	100.20		"	198.61		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	147.77		"	198.61		74.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	92.790		"	198.61		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	180.10		"	198.61		90.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	129.49		"	198.61		65.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	253.41		"	198.61		128	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	111.94		"	194.64		57.5	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	154.66		"	192.65		80.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	232.29		"	180.73		129	40-125			QS-5
PCB Congener # 1	77.120	9.9	"	99.305		77.7	50-150			
PCB Congener # 3	80.894	9.9	"	99.305		81.5	50-150			
PCB Congener # 4	74.598	9.9	"	99.305		75.1	50-150			
PCB Congener # 15	87.885	9.9	"	99.305		88.5	50-150			
PCB Congener # 19	77.637	9.9	"	99.305		78.2	50-150			
PCB Congener # 37	79.662	9.9	"	99.305		80.2	50-150			
PCB Congener # 54	81.390	9.9	"	99.305		82.0	50-150			
PCB Congener # 77	74.697	9.9	"	99.305		75.2	50-150			
PCB Congener # 81	74.538	9.9	"	99.305		75.1	50-150			



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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**LCS (1204125-BS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener #104	75.988	9.9	ng/kg	99.305		76.5	50-150			
PCB Congener #105	80.675	9.9	"	99.305		81.2	50-150			
PCB Congener #114	78.808	9.9	"	99.305		79.4	50-150			
PCB Congener #118	86.236	9.9	"	99.305		86.8	50-150			
PCB Congener #123	81.152	9.9	"	99.305		81.7	50-150			
PCB Congener #126	68.064	9.9	"	99.305		68.5	50-150			
PCB Congener #155	79.265	9.9	"	99.305		79.8	50-150			
PCB Congener #156 and/or 157	154.24	9.9	"	198.61		77.7	50-150			
PCB Congener #167	84.429	9.9	"	99.305		85.0	50-150			
PCB Congener #169	79.047	50	"	99.305		79.6	50-150			
PCB Congener #188	66.435	50	"	99.305		66.9	50-150			
PCB Congener #189	92.294	9.9	"	99.305		92.9	50-150			
PCB Congener #202	75.968	50	"	99.305		76.5	50-150			
PCB Congener #205	76.286	9.9	"	99.305		76.8	50-150			
PCB Congener #206	86.693	9.9	"	99.305		87.3	50-150			
PCB Congener #208	68.421	9.9	"	99.305		68.9	50-150			
PCB Congener #209	89.454	20	"	99.305		90.1	50-150			

**LCS Dup (1204125-BSD1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	95.383		ng/kg	199.00		47.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	98.527		"	199.00		49.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	203.10		"	199.00		102	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	106.17		"	199.00		53.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	158.91		"	199.00		79.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	82.866		"	199.00		41.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	207.26		"	199.00		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	82.448		"	199.00		41.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	64.219		"	199.00		32.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	166.47		"	199.00		83.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	79.522		"	199.00		40.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	66.269		"	199.00		33.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	81.393		"	199.00		40.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	80.915		"	199.00		40.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	71.463		"	199.00		35.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	128.98		"	199.00		64.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	124.64		"	398.01		31.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	67.284		"	199.00		33.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	65.672		"	199.00		33.0	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**LCS Dup (1204125-BSD1)**

Prepared: 04/25/12 Analyzed: 08/07/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	147.76		ng/kg	199.00		74.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	88.876		"	199.00		44.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	146.47		"	199.00		73.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	88.836		"	199.00		44.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	172.08		"	199.00		86.5	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	118.09		"	199.00		59.3	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	221.01		"	199.00		111	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	119.78		"	195.02		61.4	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	172.04		"	193.03		89.1	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	248.16		"	181.09		137	40-125			QS-5
PCB Congener # 1	88.776	10	"	99.502		89.2	50-150	14.1	30	
PCB Congener # 3	83.781	10	"	99.502		84.2	50-150	3.51	30	
PCB Congener # 4	78.587	10	"	99.502		79.0	50-150	5.21	30	
PCB Congener # 15	88.677	10	"	99.502		89.1	50-150	0.897	30	
PCB Congener # 19	82.468	10	"	99.502		82.9	50-150	6.03	30	
PCB Congener # 37	83.204	10	"	99.502		83.6	50-150	4.35	30	
PCB Congener # 54	84.139	10	"	99.502		84.6	50-150	3.32	30	
PCB Congener # 77	76.279	10	"	99.502		76.7	50-150	2.10	30	
PCB Congener # 81	79.522	10	"	99.502		79.9	50-150	6.47	30	
PCB Congener #104	73.114	10	"	99.502		73.5	50-150	3.85	30	
PCB Congener #105	74.090	10	"	99.502		74.5	50-150	8.51	30	
PCB Congener #114	73.473	10	"	99.502		73.8	50-150	7.01	30	
PCB Congener #118	82.050	10	"	99.502		82.5	50-150	4.98	30	
PCB Congener #123	71.522	10	"	99.502		71.9	50-150	12.6	30	
PCB Congener #126	65.592	10	"	99.502		65.9	50-150	3.70	30	
PCB Congener #155	73.473	10	"	99.502		73.8	50-150	7.58	30	
PCB Congener #156 and/or 157	141.55	10	"	199.00		71.1	50-150	8.58	30	
PCB Congener #167	74.607	10	"	99.502		75.0	50-150	12.4	30	
PCB Congener #169	62.985	50	"	99.502		63.3	50-150	22.6	30	
PCB Congener #188	69.552	50	"	99.502		69.9	50-150	4.58	30	
PCB Congener #189	85.672	10	"	99.502		86.1	50-150	7.44	30	
PCB Congener #202	61.294	50	"	99.502		61.6	50-150	21.4	30	
PCB Congener #205	67.303	10	"	99.502		67.6	50-150	12.5	30	
PCB Congener #206	72.896	10	"	99.502		73.3	50-150	17.3	30	
PCB Congener #208	61.353	10	"	99.502		61.7	50-150	10.9	30	
PCB Congener #209	80.080	20	"	99.502		80.5	50-150	11.1	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	108.34		ng/kg	199.60		54.3	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	120.12		"	199.60		60.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	214.55		"	199.60		107	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	118.46		"	199.60		59.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	117.43		"	199.60		58.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	76.108		"	199.60		38.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	209.76		"	199.60		105	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	66.946		"	199.60		33.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	50.319		"	199.60		25.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	181.50		"	199.60		90.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	75.230		"	199.60		37.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	80.958		"	199.60		40.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	88.543		"	199.60		44.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	79.102		"	199.60		39.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	52.735		"	199.60		26.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	157.15		"	199.60		78.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	148.78		"	399.20		37.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	73.493		"	199.60		36.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	88.623		"	199.60		44.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	212.67		"	199.60		107	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	100.70		"	199.60		50.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	200.50		"	199.60		100	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	144.11		"	199.60		72.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	124.95		"	199.60		62.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	168.46		"	199.60		84.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	107.09		"	199.60		53.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	100.08		"	195.61		51.2	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	143.95		"	193.61		74.4	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	242.79		"	181.64		134	30-135			
PCB Congener # 1	U	10	"		U				30	U
PCB Congener # 2	U	10	"		U				30	U
PCB Congener # 3	U	10	"		U				30	U
PCB Congener # 4	2.4152	10	"		1.8327			27.4	30	J, Q-2
PCB Congener # 5	U	10	"		U				30	U
PCB Congener # 6	U	10	"		U				30	U
PCB Congener # 7	U	10	"		U				30	U
PCB Congener # 8	U	10	"		U				30	U
PCB Congener # 9	U	10	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 10	U	10	ng/kg		U				30	U
PCB Congener # 11	U	10	"		U				30	U
PCB Congener # 12 and/or 13	U	10	"		U				30	U
PCB Congener # 14	U	10	"		U				30	U
PCB Congener # 15	3.1936	10	"		U				30	J, Q-2
PCB Congener # 16	U	10	"		U				30	U
PCB Congener # 17	10.100	10	"		U				30	
PCB Congener # 18 and/or 30	14.032	10	"		14.542			3.57	30	
PCB Congener # 19	U	10	"		1.7530				30	U
PCB Congener # 20 and/or 28	54.271	10	"		36.912			38.1	30	J, QM-4
PCB Congener # 21 and/or 33	12.395	10	"		U				30	
PCB Congener # 22	11.098	10	"		U				30	
PCB Congener # 23	U	10	"		U				30	U
PCB Congener # 24	U	10	"		U				30	U
PCB Congener # 25	U	10	"		U				30	U
PCB Congener # 26 and/or 29	U	10	"		U				30	U
PCB Congener # 27	U	10	"		U				30	U
PCB Congener # 31	38.383	10	"		24.283			45.0	30	J, QM-4
PCB Congener # 32	U	10	"		U				30	U
PCB Congener # 34	U	10	"		U				30	U
PCB Congener # 35	U	10	"		U				30	U
PCB Congener # 36	U	10	"		U				30	U
PCB Congener # 37	5.2096	10	"		5.1195			1.74	30	J, Q-2
PCB Congener # 38	U	10	"		U				30	U
PCB Congener # 39	U	10	"		U				30	U
PCB Congener # 40 and/or 41,71	46.806	10	"		35.837			26.5	30	
PCB Congener # 42	31.876	10	"		27.171			15.9	30	
PCB Congener # 43	U	10	"		U				30	U
PCB Congener # 44 and/or 47,65	112.77	10	"		120.82			6.89	30	
PCB Congener # 45 and/or 51	13.513	10	"		U				30	
PCB Congener # 46	U	10	"		U				30	U
PCB Congener # 48	13.633	10	"		11.713			15.1	30	
PCB Congener # 49 and/or 69	86.806	10	"		88.327			1.74	30	
PCB Congener # 50 and/or 53	U	10	"		U				30	U
PCB Congener # 52	168.72	10	"		142.49			16.9	30	
PCB Congener # 54	U	10	"		U				30	U
PCB Congener # 55	U	10	"		U				30	U
PCB Congener # 56	30.419	10	"		23.566			25.4	30	
PCB Congener # 57	U	10	"		U				30	U
PCB Congener # 58	U	10	"		U				30	U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 59 and/or 62,75	11.557	10	ng/kg		11.355			1.77	30	
PCB Congener # 60	15.050	10	"		15.777			4.72	30	
PCB Congener # 61 and/or 70,74,76	234.13	10	"		154.10			41.2	30	J, QM-4
PCB Congener # 63	11.697	10	"		U				30	
PCB Congener # 64	63.832	10	"		54.283			16.2	30	
PCB Congener # 66	106.81	10	"		116.45			8.64	30	
PCB Congener # 67	U	10	"		U				30	U
PCB Congener # 68	U	10	"		U				30	U
PCB Congener # 72	U	10	"		U				30	U
PCB Congener # 73	U	10	"		U				30	U
PCB Congener # 77	5.0898	10	"		6.1952			19.6	30	J, Q-2
PCB Congener # 78	U	10	"		U				30	U
PCB Congener # 79	U	10	"		U				30	U
PCB Congener # 80	U	10	"		U				30	U
PCB Congener # 81	U	10	"		U				30	U
PCB Congener # 82	22.136	10	"		20.458			7.88	30	
PCB Congener # 83 and/or 99	264.55	10	"		332.45			22.7	30	
PCB Congener # 84	46.846	10	"		29.343			45.9	30	J, QM-4
PCB Congener # 85 and/or 116,117	52.355	10	"		89.721			52.6	30	J, QM-4
PCB Congener # 86 and/or 87,97,109,119,125	146.21	10	"		171.47			15.9	30	
PCB Congener # 88 and/or 91	36.387	10	"		36.673			0.783	30	
PCB Congener # 89	U	10	"		U				30	U
PCB Congener # 90 and/or 101,113	257.76	10	"		327.79			23.9	30	
PCB Congener # 92	64.591	10	"		81.056			22.6	30	
PCB Congener # 93 and/or 95,98,100,102	147.90	10	"		149.34			0.968	30	
PCB Congener # 94	U	10	"		U				30	U
PCB Congener # 96	U	10	"		U				30	U
PCB Congener #103	U	10	"		U				30	U
PCB Congener #104	U	10	"		U				30	U
PCB Congener #105	70.978	10	"		108.05			41.4	30	J, QM-4
PCB Congener #106	U	10	"		U				30	U
PCB Congener #107	21.916	10	"		38.227			54.2	30	J, QM-4
PCB Congener #108 and/or 124	U	10	"		U				30	U
PCB Congener #110 and/or 115	241.18	10	"		576.53			82.0	30	J, QM-4
PCB Congener #111	U	10	"		U				30	U
PCB Congener #112	U	10	"		U				30	U
PCB Congener #114	3.6527	10	"		6.4940			56.0	30	J, Q-2, QM-4
PCB Congener #118	214.21	10	"		366.04			52.3	30	J, QM-4
PCB Congener #120	U	10	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener #121	U	10	ng/kg		U			30		U
PCB Congener #122	U	10	"		U			30		U
PCB Congener #123	4.5110	10	"		6.4741			35.7	30	J, Q-2, QM-4
PCB Congener #126	U	10	"		U			30		U
PCB Congener #127	U	10	"		U			30		U
PCB Congener #128 and/or 166	65.569	50	"		112.95			53.1	30	J, QM-4
PCB Congener #129 and/or 138,160,163	478.94	50	"		863.55			57.3	30	J, QM-4
PCB Congener #130	U	50	"		U			30		U
PCB Congener #131	U	50	"		U			30		U
PCB Congener #132	87.725	50	"		69.622			23.0	30	
PCB Congener #133	U	50	"		U			30		U
PCB Congener #134 and/or 143	U	50	"		U			30		U
PCB Congener #135 and/or 151,154	156.09	50	"		195.52			22.4	30	
PCB Congener #136	U	50	"		U			30		U
PCB Congener #137	U	50	"		U			30		U
PCB Congener #139 and/or 140	U	50	"		U			30		U
PCB Congener #141	69.461	50	"		101.49			37.5	30	J, QM-4
PCB Congener #142	U	50	"		U			30		U
PCB Congener #144	U	50	"		U			30		U
PCB Congener #145	U	50	"		U			30		U
PCB Congener #146	104.19	50	"		223.90			73.0	30	J, QM-4
PCB Congener #147 and/or 149	382.44	50	"		406.27			6.05	30	
PCB Congener #148	U	50	"		U			30		U
PCB Congener #150	U	50	"		U			30		U
PCB Congener #152	U	50	"		U			30		U
PCB Congener #153 and/or 168	489.52	50	"		943.03			63.3	30	J, QM-4
PCB Congener #155	11.417	10	"		16.076			33.9	30	J, QM-4
PCB Congener #156 and/or 157	34.012	10	"		62.171			58.6	30	J, QM-4
PCB Congener #158	U	50	"		68.426			30		U
PCB Congener #159	U	50	"		U			30		U
PCB Congener #161	U	50	"		U			30		U
PCB Congener #162	U	50	"		U			30		U
PCB Congener #164	U	50	"		U			30		U
PCB Congener #165	U	50	"		U			30		U
PCB Congener #167	17.884	10	"		33.167			59.9	30	J, QM-4
PCB Congener #169	U	50	"		U			30		U
PCB Congener #170	84.830	50	"		153.49			57.6	30	J, QM-4
PCB Congener #171 and/or 173	U	50	"		U			30		U
PCB Congener #172	U	50	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 08/07/12

PCB Congener #174	83.134	50	ng/kg		84.661			1.82	30	
PCB Congener #175	U	50	"		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	55.988	50	"		71.713			24.6	30	
PCB Congener #178	U	50	"		U				30	U
PCB Congener #179	U	50	"		U				30	U
PCB Congener #180 and/or 193	203.79	50	"		336.85			49.2	30	J, QM-4
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	81.936	50	"		149.70			58.5	30	J, QM-4
PCB Congener #184	U	50	"		U				30	U
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	186.33	50	"		371.02			66.3	30	J, QM-4
PCB Congener #188	U	50	"		U				30	U
PCB Congener #189	U	50	"		6.9721				30	U
PCB Congener #190	U	50	"		U				30	U
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	U	50	"		71.116				30	U
PCB Congener #195	U	50	"		U				30	U
PCB Congener #196	U	50	"		U				30	U
PCB Congener #197 and/or 200	U	50	"		U				30	U
PCB Congener #198 and/or 199	121.06	50	"		153.29			23.5	30	
PCB Congener #201	U	50	"		U				30	U
PCB Congener #202	55.788	50	"		70.717			23.6	30	
PCB Congener #203	95.309	50	"		155.18			47.8	30	J, QM-4
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	U	50	"		U				30	U
PCB Congener #206	117.96	50	"		192.93			48.2	30	J, QM-4
PCB Congener #207	U	50	"		U				30	U
PCB Congener #208	59.980	50	"		83.367			32.6	30	J, QM-4
PCB Congener #209	106.59	100	"		158.47			39.1	30	J, QM-4





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**MRL Verification (1204125-PS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	88.315		ng/kg	199.40		44.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	104.47		"	199.40		52.4	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	158.74		"	199.40		79.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	103.87		"	199.40		52.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	158.86		"	199.40		79.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	73.878		"	199.40		37.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	201.71		"	199.40		101	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	69.452		"	199.40		34.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	60.499		"	199.40		30.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	176.09		"	199.40		88.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	87.956		"	199.40		44.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	86.481		"	199.40		43.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	81.077		"	199.40		40.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	72.921		"	199.40		36.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	73.420		"	199.40		36.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	156.75		"	199.40		78.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	146.96		"	398.80		36.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	66.939		"	199.40		33.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	87.039		"	199.40		43.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	186.94		"	199.40		93.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	110.57		"	199.40		55.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	142.47		"	199.40		71.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	102.55		"	199.40		51.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	192.40		"	199.40		96.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	146.86		"	199.40		73.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	216.23		"	199.40		108	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	96.530		"	195.41		49.4	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	148.75		"	193.42		76.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	203.27		"	181.46		112	40-125			
PCB Congener # 1	9.1725	10	"	9.9701		92.0	30-170			MRL-4, Q-2, J
PCB Congener # 3	8.8933	10	"	9.9701		89.2	30-170			MRL-4, Q-2, J
PCB Congener # 4	8.6540	10	"	9.9701		86.8	30-170			MRL-4, Q-2, J
PCB Congener # 15	9.6510	10	"	9.9701		96.8	30-170			MRL-4, Q-2, J
PCB Congener # 19	7.5174	10	"	9.9701		75.4	30-170			MRL-4, Q-2, J
PCB Congener # 37	8.5543	10	"	9.9701		85.8	30-170			MRL-4, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**MRL Verification (1204125-PS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 54	7.7966	10	ng/kg	9.9701		78.2	30-170			MRL-4, Q-2, J
PCB Congener # 77	8.2752	10	"	9.9701		83.0	30-170			MRL-4, Q-2, J
PCB Congener # 81	8.6740	10	"	9.9701		87.0	30-170			MRL-4, Q-2, J
PCB Congener #104	6.4606	10	"	9.9701		64.8	30-170			MRL-4, Q-2, J
PCB Congener #105	9.4716	10	"	9.9701		95.0	30-170			MRL-4, Q-2, J
PCB Congener #114	6.6002	10	"	9.9701		66.2	30-170			MRL-4, Q-2, J
PCB Congener #118	15.374	10	"	9.9701		154	30-170			MRL-4
PCB Congener #123	7.4576	10	"	9.9701		74.8	30-170			MRL-4, Q-2, J
PCB Congener #126	7.3779	10	"	9.9701		74.0	30-170			MRL-4, Q-2, J
PCB Congener #155	6.3011	10	"	9.9701		63.2	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	15.115	10	"	19.940		75.8	30-170			MRL-4
PCB Congener #167	7.9960	10	"	9.9701		80.2	30-170			MRL-4, Q-2, J
PCB Congener #169	10.469	50	"	9.9701		105	30-170			MRL-4, Q-2, J
PCB Congener #188	8.8734	50	"	9.9701		89.0	30-170			MRL-4, Q-2, J
PCB Congener #189	8.1954	10	"	9.9701		82.2	30-170			MRL-4, Q-2, J
PCB Congener #202	9.3719	50	"	9.9701		94.0	30-170			MRL-4, Q-2, J
PCB Congener #205	7.8963	10	"	9.9701		79.2	30-170			MRL-4, Q-2, J
PCB Congener #206	8.7936	10	"	9.9701		88.2	30-170			MRL-4, Q-2, J
PCB Congener #208	6.3210	10	"	9.9701		63.4	30-170			MRL-4, Q-2, J
PCB Congener #209	15.354	20	"	19.980		76.8	30-170			MRL-4, Q-2, J



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**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1201008 - E 3550 Tissue**

**Blank (1201008-BLK1)**

Prepared: 01/03/12 Analyzed: 01/04/12

**ASB E100**

% Lipids 0.0000 %

**Duplicate (1201008-DUP1)**

Source: E113804-07

Prepared: 01/03/12 Analyzed: 01/04/12

**ASB E100**

% Lipids 0.90000 % 0.90000 0.00 20

**Batch 1201009 - E 3550 Tissue**

**Blank (1201009-BLK1)**

Prepared: 01/04/12 Analyzed: 01/05/12

**ASB E100**

% Lipids 0.0000 %

**Duplicate (1201009-DUP1)**

Source: E113804-11

Prepared: 01/04/12 Analyzed: 01/05/12

**ASB E100**

% Lipids 0.90000 % 1.2000 28.6 20 QM-4



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-4 Matrix Precision outside method control limits
- QS-5 Surrogate recovery is higher than established control limits



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**October 27, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

**This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.**

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Report Narrative** for Work Order E113804, Project: 11-0342  
10/27/12 SJH PCB Congeners/Lipids: Data reissued so that QC is reported with 2 significant figures like the samples. This report replaces E113804 PCBC PHYSP FINAL 10 27 12 1103.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-369	E113804-01	Fish	8/23/11 12:00	9/13/11 9:53
11-370	E113804-02	Fish	8/23/11 12:00	9/13/11 9:53
11-371	E113804-03	Fish	8/23/11 12:00	9/13/11 9:53
11-372	E113804-04	Fish	8/23/11 12:00	9/13/11 9:53
11-373	E113804-05	Fish	8/23/11 12:00	9/13/11 9:53
11-374	E113804-06	Fish	8/23/11 12:00	9/13/11 9:53
11-375	E113804-07	Fish	8/23/11 12:00	9/13/11 9:53
11-376	E113804-08	Fish	8/23/11 12:00	9/13/11 9:53
11-377	E113804-09	Fish	8/23/11 12:00	9/13/11 9:53
11-378	E113804-10	Fish	8/23/11 12:00	9/13/11 9:53
11-379	E113804-11	Fish	8/23/11 12:00	9/13/11 9:53
11-380	E113804-12	Fish	8/23/11 12:00	9/13/11 9:53
11-381	E113804-13	Fish	8/23/11 12:00	9/13/11 9:53
11-358	E113804-14	Fish	8/24/11 12:00	9/13/11 9:53
11-359	E113804-15	Fish	8/24/11 12:00	9/13/11 9:53
11-360	E113804-16	Fish	8/24/11 12:00	9/13/11 9:53
11-361	E113804-17	Fish	8/24/11 12:00	9/13/11 9:53
11-362	E113804-18	Fish	8/24/11 12:00	9/13/11 9:53
11-363	E113804-19	Fish	8/24/11 12:00	9/13/11 9:53
11-364	E113804-20	Fish	8/24/11 12:00	9/13/11 9:53



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### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QM-4	Matrix Precision outside method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.





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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-90-5	PCB Congener # 37	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
36559-22-5	PCB Congener # 42	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-46-8	PCB Congener # 43	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-47-5	PCB Congener # 46	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-47-9	PCB Congener # 48	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35693-99-3	PCB Congener # 52	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
74338-24-2	PCB Congener # 55	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-43-1	PCB Congener # 56	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70424-67-8	PCB Congener # 57	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-49-7	PCB Congener # 58	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
33025-41-1	PCB Congener # 60	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	56	J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-34-7	PCB Congener # 63	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-58-8	PCB Congener # 64	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
32598-10-0	PCB Congener # 66	55	J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-53-8	PCB Congener # 67	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-52-7	PCB Congener # 68	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74338-23-1	PCB Congener # 73	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
32598-13-3	PCB Congener # 77	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-49-1	PCB Congener # 78	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41464-48-6	PCB Congener # 79	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
33284-52-5	PCB Congener # 80	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70362-50-4	PCB Congener # 81	50	U, J, QI-1	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-62-4	PCB Congener # 82	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	170		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-60-2	PCB Congener # 84	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	55		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-57-2	PCB Congener # 89	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-61-3	PCB Congener # 92	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-55-0	PCB Congener # 94	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
73575-54-9	PCB Congener # 96	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
60145-21-3	PCB Congener #103	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
32598-14-4	PCB Congener #105	43	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70424-69-0	PCB Congener #106	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
70424-68-9	PCB Congener #107	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-32-0	PCB Congener #111	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-36-9	PCB Congener #112	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
31508-00-6	PCB Congener #118	160		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-12-7	PCB Congener #120	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
56558-18-0	PCB Congener #121	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
76842-07-4	PCB Congener #122	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
65510-44-3	PCB Congener #123	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
57465-28-8	PCB Congener #126	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-33-1	PCB Congener #127	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	300		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	52		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
51908-16-8	PCB Congener #146	80		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	85		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	380		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 18:27	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	26	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-72-6	PCB Congener #167	13	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35065-30-6	PCB Congener #170	54		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	130		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-68-0	PCB Congener #187	110		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
2136-99-4	PCB Congener #202	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
40186-72-9	PCB Congener #206	52		ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
52663-77-1	PCB Congener #208	15	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 18:31	EPA 1668A
2051-24-3	PCB Congener #209	75	J, Q-2	ng/kg	100	4/25/12 16:21	8/07/12 18:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-369

Lab ID: E113804-01

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.30		%		1/03/12 14:00	1/04/12 15:55	ASB E100





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	20		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-90-5	PCB Congener # 37	2.5	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	11		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
36559-22-5	PCB Congener # 42	13		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	56		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	48		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
35693-99-3	PCB Congener # 52	63		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-43-1	PCB Congener # 56	15		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-58-8	PCB Congener # 64	26		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32598-10-0	PCB Congener # 66	76		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32598-13-3	PCB Congener # 77	3.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	240		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-60-2	PCB Congener # 84	12		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	37		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	72		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	20		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	160		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
52663-61-3	PCB Congener # 92	36		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	57		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32598-14-4	PCB Congener #105	36		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
70424-68-9	PCB Congener #107	17		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	120		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
31508-00-6	PCB Congener #118	160		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
65510-44-3	PCB Congener #123	2.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	290		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	82		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
51908-16-8	PCB Congener #146	77		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	130		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	380		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	19		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-72-6	PCB Congener #167	10		ng/kg	10	4/25/12 16:21	7/16/12 19:30	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35065-30-6	PCB Congener #170	60		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	59		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-68-0	PCB Congener #187	140		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-370

Lab ID: E113804-02

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	60		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
2136-99-4	PCB Congener #202	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-76-0	PCB Congener #203	52		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
40186-72-9	PCB Congener #206	51		ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
52663-77-1	PCB Congener #208	20	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 19:35	EPA 1668A
2051-24-3	PCB Congener #209	100		ng/kg	100	4/25/12 16:21	8/07/12 19:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** 11-370

**Lab ID:** E113804-02

**Station ID:** YAD-HRL-AC

**Matrix:** Fish

**Date Collected:** 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2051-61-8	PCB Congener # 2	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2051-62-9	PCB Congener # 3	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
13029-08-8	PCB Congener # 4	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
16605-91-7	PCB Congener # 5	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
25569-80-6	PCB Congener # 6	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33284-50-3	PCB Congener # 7	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
34883-43-7	PCB Congener # 8	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
34883-39-1	PCB Congener # 9	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33146-45-1	PCB Congener # 10	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2050-67-1	PCB Congener # 11	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
34883-41-5	PCB Congener # 14	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
2050-68-2	PCB Congener # 15	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-78-9	PCB Congener # 16	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
37680-66-3	PCB Congener # 17	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-73-4	PCB Congener # 19	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	12		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-85-8	PCB Congener # 22	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
55720-44-0	PCB Congener # 23	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
55702-45-9	PCB Congener # 24	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
55712-37-3	PCB Congener # 25	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-76-7	PCB Congener # 27	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
16606-02-3	PCB Congener # 31	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-77-8	PCB Congener # 32	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
37680-69-6	PCB Congener # 35	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-87-0	PCB Congener # 36	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-90-5	PCB Congener # 37	1.6	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
53555-66-1	PCB Congener # 38	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
38444-88-1	PCB Congener # 39	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
36559-22-5	PCB Congener # 42	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-46-8	PCB Congener # 43	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	43		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-47-5	PCB Congener # 46	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-47-9	PCB Congener # 48	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	31		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
35693-99-3	PCB Congener # 52	43		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
15968-05-5	PCB Congener # 54	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74338-24-2	PCB Congener # 55	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-43-1	PCB Congener # 56	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70424-67-8	PCB Congener # 57	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-49-7	PCB Congener # 58	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33025-41-1	PCB Congener # 60	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	80		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74472-34-7	PCB Congener # 63	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-58-8	PCB Congener # 64	18		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32598-10-0	PCB Congener # 66	53		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-53-8	PCB Congener # 67	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-52-7	PCB Congener # 68	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74338-23-1	PCB Congener # 73	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32598-13-3	PCB Congener # 77	2.7	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-49-1	PCB Congener # 78	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
41464-48-6	PCB Congener # 79	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
33284-52-5	PCB Congener # 80	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70362-50-4	PCB Congener # 81	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-62-4	PCB Congener # 82	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	200		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-60-2	PCB Congener # 84	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	28		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	63		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	16		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-57-2	PCB Congener # 89	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
52663-61-3	PCB Congener # 92	30		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	48		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-55-0	PCB Congener # 94	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
73575-54-9	PCB Congener # 96	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
60145-21-3	PCB Congener #103	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
56558-16-8	PCB Congener #104	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32598-14-4	PCB Congener #105	31		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70424-69-0	PCB Congener #106	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
70424-68-9	PCB Congener #107	14		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
39635-32-0	PCB Congener #111	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74472-36-9	PCB Congener #112	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.0	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
31508-00-6	PCB Congener #118	140		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
68194-12-7	PCB Congener #120	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
56558-18-0	PCB Congener #121	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
76842-07-4	PCB Congener #122	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
65510-44-3	PCB Congener #123	3.0	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
57465-28-8	PCB Congener #126	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
39635-33-1	PCB Congener #127	12	U	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	280		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-66-8	PCB Congener #130	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
61798-70-7	PCB Congener #131	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
38380-05-1	PCB Congener #132	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35694-04-3	PCB Congener #133	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	64		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
38411-22-2	PCB Congener #136	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35694-06-5	PCB Congener #137	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52712-04-6	PCB Congener #141	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
41411-61-4	PCB Congener #142	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
68194-14-9	PCB Congener #144	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-40-5	PCB Congener #145	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
51908-16-8	PCB Congener #146	77		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	140		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-41-6	PCB Congener #148	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
68194-08-1	PCB Congener #150	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
68194-09-2	PCB Congener #152	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	370		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.9	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	19		ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
74472-42-7	PCB Congener #158	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
39635-35-3	PCB Congener #159	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-43-8	PCB Congener #161	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
39635-34-2	PCB Congener #162	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-45-0	PCB Congener #164	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-46-1	PCB Congener #165	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-72-6	PCB Congener #167	11	J, Q-2	ng/kg	12	4/25/12 16:21	7/16/12 20:34	EPA 1668A
32774-16-6	PCB Congener #169	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35065-30-6	PCB Congener #170	61		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-74-8	PCB Congener #172	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
38411-25-5	PCB Congener #174	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
40186-70-7	PCB Congener #175	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-65-7	PCB Congener #176	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-70-4	PCB Congener #177	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-67-9	PCB Congener #178	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-64-6	PCB Congener #179	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	150		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-47-2	PCB Congener #181	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
60145-23-5	PCB Congener #182	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-48-3	PCB Congener #184	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-49-4	PCB Congener #186	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-68-0	PCB Congener #187	140		ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74487-85-7	PCB Congener #188	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
39635-31-9	PCB Congener #189	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
41411-64-7	PCB Congener #190	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-51-8	PCB Congener #192	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
35694-08-7	PCB Congener #194	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-78-2	PCB Congener #195	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
42740-50-1	PCB Congener #196	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
40186-71-8	PCB Congener #201	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
2136-99-4	PCB Congener #202	14	J, Q-2	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-76-0	PCB Congener #203	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-52-9	PCB Congener #204	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
74472-53-0	PCB Congener #205	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
40186-72-9	PCB Congener #206	42	J, Q-2	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-79-3	PCB Congener #207	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
52663-77-1	PCB Congener #208	61	U	ng/kg	61	4/25/12 16:21	8/07/12 20:39	EPA 1668A
2051-24-3	PCB Congener #209	95	J, Q-2	ng/kg	120	4/25/12 16:21	8/07/12 20:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-371

Lab ID: E113804-03

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.30		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-372

Lab ID: E113804-04

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.20		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2051-61-8	PCB Congener # 2	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2051-62-9	PCB Congener # 3	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
13029-08-8	PCB Congener # 4	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
16605-91-7	PCB Congener # 5	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
25569-80-6	PCB Congener # 6	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33284-50-3	PCB Congener # 7	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
34883-43-7	PCB Congener # 8	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
34883-39-1	PCB Congener # 9	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33146-45-1	PCB Congener # 10	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2050-67-1	PCB Congener # 11	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
34883-41-5	PCB Congener # 14	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
2050-68-2	PCB Congener # 15	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-78-9	PCB Congener # 16	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
37680-66-3	PCB Congener # 17	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-73-4	PCB Congener # 19	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-85-8	PCB Congener # 22	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
55720-44-0	PCB Congener # 23	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
55702-45-9	PCB Congener # 24	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
55712-37-3	PCB Congener # 25	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-76-7	PCB Congener # 27	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
16606-02-3	PCB Congener # 31	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-77-8	PCB Congener # 32	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
37680-69-6	PCB Congener # 35	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-87-0	PCB Congener # 36	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-90-5	PCB Congener # 37	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
53555-66-1	PCB Congener # 38	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
38444-88-1	PCB Congener # 39	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
36559-22-5	PCB Congener # 42	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-46-8	PCB Congener # 43	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	39		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-47-5	PCB Congener # 46	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-47-9	PCB Congener # 48	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	26		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
35693-99-3	PCB Congener # 52	40		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
15968-05-5	PCB Congener # 54	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74338-24-2	PCB Congener # 55	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-43-1	PCB Congener # 56	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70424-67-8	PCB Congener # 57	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-49-7	PCB Congener # 58	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33025-41-1	PCB Congener # 60	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	78		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74472-34-7	PCB Congener # 63	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-58-8	PCB Congener # 64	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32598-10-0	PCB Congener # 66	46		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-53-8	PCB Congener # 67	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-52-7	PCB Congener # 68	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74338-23-1	PCB Congener # 73	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32598-13-3	PCB Congener # 77	3.3	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-49-1	PCB Congener # 78	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
41464-48-6	PCB Congener # 79	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
33284-52-5	PCB Congener # 80	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70362-50-4	PCB Congener # 81	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-62-4	PCB Congener # 82	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	160		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-60-2	PCB Congener # 84	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	27		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	63		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-57-2	PCB Congener # 89	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
52663-61-3	PCB Congener # 92	29		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	57		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-55-0	PCB Congener # 94	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
73575-54-9	PCB Congener # 96	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
60145-21-3	PCB Congener #103	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
56558-16-8	PCB Congener #104	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32598-14-4	PCB Congener #105	34		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70424-69-0	PCB Congener #106	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
70424-68-9	PCB Congener #107	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
39635-32-0	PCB Congener #111	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74472-36-9	PCB Congener #112	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
31508-00-6	PCB Congener #118	130		ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
68194-12-7	PCB Congener #120	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
56558-18-0	PCB Congener #121	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
76842-07-4	PCB Congener #122	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
65510-44-3	PCB Congener #123	2.9	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
57465-28-8	PCB Congener #126	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
39635-33-1	PCB Congener #127	23	U	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	250		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-66-8	PCB Congener #130	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
61798-70-7	PCB Congener #131	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
38380-05-1	PCB Congener #132	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35694-04-3	PCB Congener #133	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
38411-22-2	PCB Congener #136	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35694-06-5	PCB Congener #137	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52712-04-6	PCB Congener #141	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
41411-61-4	PCB Congener #142	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
68194-14-9	PCB Congener #144	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-40-5	PCB Congener #145	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
51908-16-8	PCB Congener #146	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	180		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-41-6	PCB Congener #148	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
68194-08-1	PCB Congener #150	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
68194-09-2	PCB Congener #152	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	260		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.4	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	15	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
74472-42-7	PCB Congener #158	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
39635-35-3	PCB Congener #159	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-43-8	PCB Congener #161	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
39635-34-2	PCB Congener #162	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-45-0	PCB Congener #164	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-46-1	PCB Congener #165	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-72-6	PCB Congener #167	8.0	J, Q-2	ng/kg	23	4/25/12 16:21	7/16/12 21:38	EPA 1668A
32774-16-6	PCB Congener #169	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35065-30-6	PCB Congener #170	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-74-8	PCB Congener #172	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
38411-25-5	PCB Congener #174	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
40186-70-7	PCB Congener #175	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-65-7	PCB Congener #176	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-70-4	PCB Congener #177	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-67-9	PCB Congener #178	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-64-6	PCB Congener #179	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-47-2	PCB Congener #181	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
60145-23-5	PCB Congener #182	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-48-3	PCB Congener #184	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-49-4	PCB Congener #186	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-68-0	PCB Congener #187	120		ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74487-85-7	PCB Congener #188	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
39635-31-9	PCB Congener #189	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
41411-64-7	PCB Congener #190	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-51-8	PCB Congener #192	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
35694-08-7	PCB Congener #194	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-78-2	PCB Congener #195	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
42740-50-1	PCB Congener #196	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
40186-71-8	PCB Congener #201	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
2136-99-4	PCB Congener #202	20	J, Q-2	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-76-0	PCB Congener #203	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-52-9	PCB Congener #204	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
74472-53-0	PCB Congener #205	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
40186-72-9	PCB Congener #206	37	J, Q-2	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-79-3	PCB Congener #207	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
52663-77-1	PCB Congener #208	120	U	ng/kg	120	4/25/12 16:21	8/07/12 21:43	EPA 1668A
2051-24-3	PCB Congener #209	230	U	ng/kg	230	4/25/12 16:21	8/07/12 21:43	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-373

Lab ID: E113804-05

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-73-4	PCB Congener # 19	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	21		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
16606-02-3	PCB Congener # 31	12		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-374**

**Lab ID: E113804-06**

**Station ID: YAD-HRL-AC**

**Matrix: Fish**

**Date Collected: 8/23/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-90-5	PCB Congener # 37	1.6	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
36559-22-5	PCB Congener # 42	15		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	58		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-47-9	PCB Congener # 48	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	50		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
35693-99-3	PCB Congener # 52	82		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-43-1	PCB Congener # 56	12		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33025-41-1	PCB Congener # 60	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-58-8	PCB Congener # 64	31		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32598-10-0	PCB Congener # 66	60		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32598-13-3	PCB Congener # 77	3.5	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-62-4	PCB Congener # 82	11		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	210		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-60-2	PCB Congener # 84	21		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	33		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	71		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	21		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	140		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
52663-61-3	PCB Congener # 92	38		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	83		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32598-14-4	PCB Congener #105	35		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
70424-68-9	PCB Congener #107	13		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	130		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
31508-00-6	PCB Congener #118	150		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
65510-44-3	PCB Congener #123	3.2	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	210		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	54		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
51908-16-8	PCB Congener #146	58		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	150		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	280		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	18		ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-72-6	PCB Congener #167	9.6	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/16/12 22:41	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-68-0	PCB Congener #187	120		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
2136-99-4	PCB Congener #202	18	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
40186-72-9	PCB Congener #206	50		ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
52663-77-1	PCB Congener #208	24	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 22:46	EPA 1668A
2051-24-3	PCB Congener #209	53	J, Q-2	ng/kg	99	4/25/12 16:21	8/07/12 22:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-374

Lab ID: E113804-06

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
2050-68-2	PCB Congener # 15	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	17		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	63		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-85-8	PCB Congener # 22	14		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
16606-02-3	PCB Congener # 31	33		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-90-5	PCB Congener # 37	5.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	27		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
36559-22-5	PCB Congener # 42	37		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	170		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-47-9	PCB Congener # 48	12		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	120		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
35693-99-3	PCB Congener # 52	190		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	17		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33025-41-1	PCB Congener # 60	18		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	240		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74472-34-7	PCB Congener # 63	10		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-58-8	PCB Congener # 64	64		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32598-10-0	PCB Congener # 66	190		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32598-13-3	PCB Congener # 77	9.2	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-62-4	PCB Congener # 82	23		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	540		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-60-2	PCB Congener # 84	37		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	220		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	62		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	370		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
52663-61-3	PCB Congener # 92	100		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	190		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32598-14-4	PCB Congener #105	140		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
70424-68-9	PCB Congener #107	59		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	600		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
31508-00-6	PCB Congener #118	530		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
65510-44-3	PCB Congener #123	8.5	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	150		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1000		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-66-8	PCB Congener #130	54		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
38380-05-1	PCB Congener #132	97		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	290		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52712-04-6	PCB Congener #141	120		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
51908-16-8	PCB Congener #146	270		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	620		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1300		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	18		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	86		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
74472-42-7	PCB Congener #158	81		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-45-0	PCB Congener #164	52		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-72-6	PCB Congener #167	48		ng/kg	10	4/25/12 16:21	7/18/12 14:35	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35065-30-6	PCB Congener #170	200		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	60		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-74-8	PCB Congener #172	54		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
38411-25-5	PCB Congener #174	120		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-70-4	PCB Congener #177	99		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-67-9	PCB Congener #178	79		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-64-6	PCB Congener #179	68		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	460		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	190		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-68-0	PCB Congener #187	410		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
39635-31-9	PCB Congener #189	7.8	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
35694-08-7	PCB Congener #194	130		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-78-2	PCB Congener #195	51		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
42740-50-1	PCB Congener #196	68		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	240		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
2136-99-4	PCB Congener #202	90		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-76-0	PCB Congener #203	220		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
74472-53-0	PCB Congener #205	7.1	J, Q-2	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
40186-72-9	PCB Congener #206	210		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
52663-77-1	PCB Congener #208	99		ng/kg	50	4/25/12 16:21	8/07/12 23:50	EPA 1668A
2051-24-3	PCB Congener #209	260		ng/kg	100	4/25/12 16:21	8/07/12 23:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-375

Lab ID: E113804-07

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
37680-66-3	PCB Congener # 17	11		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	16		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-73-4	PCB Congener # 19	2.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	170		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-85-8	PCB Congener # 22	19		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
16606-02-3	PCB Congener # 31	40		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-90-5	PCB Congener # 37	2.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
36559-22-5	PCB Congener # 42	70		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	340		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	330		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
35693-99-3	PCB Congener # 52	280		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-43-1	PCB Congener # 56	10		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	34		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33025-41-1	PCB Congener # 60	47		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	400		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74472-34-7	PCB Congener # 63	23		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-58-8	PCB Congener # 64	180		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32598-10-0	PCB Congener # 66	600		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-52-7	PCB Congener # 68	16		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32598-13-3	PCB Congener # 77	6.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1000		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-60-2	PCB Congener # 84	16		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	270		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	330		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	130		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	650		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
52663-61-3	PCB Congener # 92	210		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32598-14-4	PCB Congener #105	300		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1100		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	17		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
31508-00-6	PCB Congener #118	1200		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
68194-12-7	PCB Congener #120	17		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
65510-44-3	PCB Congener #123	22		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	300		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1700		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-66-8	PCB Congener #130	110		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
38380-05-1	PCB Congener #132	52		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	480		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35694-06-5	PCB Congener #137	64		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52712-04-6	PCB Congener #141	190		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
51908-16-8	PCB Congener #146	600		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	690		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2700		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	20		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	160		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
74472-42-7	PCB Congener #158	140		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-45-0	PCB Congener #164	96		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-72-6	PCB Congener #167	93		ng/kg	10	4/25/12 16:21	7/18/12 15:39	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35065-30-6	PCB Congener #170	540		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	180		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-74-8	PCB Congener #172	130		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
38411-25-5	PCB Congener #174	340		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-67-9	PCB Congener #178	210		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-64-6	PCB Congener #179	150		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1400		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	510		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-68-0	PCB Congener #187	1200		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
39635-31-9	PCB Congener #189	27	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
41411-64-7	PCB Congener #190	76		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
35694-08-7	PCB Congener #194	220		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
42740-50-1	PCB Congener #196	94		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	370		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
2136-99-4	PCB Congener #202	160		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-76-0	PCB Congener #203	440		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
74472-53-0	PCB Congener #205	18	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
40186-72-9	PCB Congener #206	370		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
52663-77-1	PCB Congener #208	170		ng/kg	50	4/25/12 16:21	8/08/12 13:24	EPA 1668A
2051-24-3	PCB Congener #209	550		ng/kg	100	4/25/12 16:21	8/08/12 13:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-376

Lab ID: E113804-08

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.2		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2051-61-8	PCB Congener # 2	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2051-62-9	PCB Congener # 3	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
13029-08-8	PCB Congener # 4	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
16605-91-7	PCB Congener # 5	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
25569-80-6	PCB Congener # 6	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33284-50-3	PCB Congener # 7	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
34883-43-7	PCB Congener # 8	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
34883-39-1	PCB Congener # 9	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33146-45-1	PCB Congener # 10	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2050-67-1	PCB Congener # 11	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
34883-41-5	PCB Congener # 14	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
2050-68-2	PCB Congener # 15	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-78-9	PCB Congener # 16	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
37680-66-3	PCB Congener # 17	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-73-4	PCB Congener # 19	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-85-8	PCB Congener # 22	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
55720-44-0	PCB Congener # 23	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
55702-45-9	PCB Congener # 24	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
55712-37-3	PCB Congener # 25	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-76-7	PCB Congener # 27	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
16606-02-3	PCB Congener # 31	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-77-8	PCB Congener # 32	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
37680-69-6	PCB Congener # 35	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-87-0	PCB Congener # 36	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-90-5	PCB Congener # 37	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
53555-66-1	PCB Congener # 38	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
38444-88-1	PCB Congener # 39	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
36559-22-5	PCB Congener # 42	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-46-8	PCB Congener # 43	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	69		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-47-5	PCB Congener # 46	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-47-9	PCB Congener # 48	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
35693-99-3	PCB Congener # 52	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
15968-05-5	PCB Congener # 54	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74338-24-2	PCB Congener # 55	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-43-1	PCB Congener # 56	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70424-67-8	PCB Congener # 57	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-49-7	PCB Congener # 58	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33025-41-1	PCB Congener # 60	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	89		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74472-34-7	PCB Congener # 63	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-58-8	PCB Congener # 64	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32598-10-0	PCB Congener # 66	180		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-53-8	PCB Congener # 67	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-52-7	PCB Congener # 68	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74338-23-1	PCB Congener # 73	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32598-13-3	PCB Congener # 77	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-49-1	PCB Congener # 78	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
41464-48-6	PCB Congener # 79	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
33284-52-5	PCB Congener # 80	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70362-50-4	PCB Congener # 81	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-62-4	PCB Congener # 82	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1600		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-60-2	PCB Congener # 84	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	390		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	150		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-57-2	PCB Congener # 89	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
52663-61-3	PCB Congener # 92	190		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-55-0	PCB Congener # 94	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
73575-54-9	PCB Congener # 96	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
60145-21-3	PCB Congener #103	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
56558-16-8	PCB Congener #104	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32598-14-4	PCB Congener #105	670		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70424-69-0	PCB Congener #106	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
70424-68-9	PCB Congener #107	210		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	510		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
39635-32-0	PCB Congener #111	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74472-36-9	PCB Congener #112	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	46	J, Q-2	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
31508-00-6	PCB Congener #118	2700		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
68194-12-7	PCB Congener #120	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
56558-18-0	PCB Congener #121	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
76842-07-4	PCB Congener #122	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
65510-44-3	PCB Congener #123	55	J, Q-2	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
57465-28-8	PCB Congener #126	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
39635-33-1	PCB Congener #127	62	U	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	1100		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	7400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-66-8	PCB Congener #130	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
61798-70-7	PCB Congener #131	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
38380-05-1	PCB Congener #132	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35694-04-3	PCB Congener #133	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	580		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
38411-22-2	PCB Congener #136	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35694-06-5	PCB Congener #137	350		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52712-04-6	PCB Congener #141	650		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
41411-61-4	PCB Congener #142	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
68194-14-9	PCB Congener #144	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-40-5	PCB Congener #145	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
51908-16-8	PCB Congener #146	2300		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	870		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-41-6	PCB Congener #148	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
68194-08-1	PCB Congener #150	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
68194-09-2	PCB Congener #152	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	9300		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	48	J, Q-2	ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	700		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
74472-42-7	PCB Congener #158	670		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
39635-35-3	PCB Congener #159	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-43-8	PCB Congener #161	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
39635-34-2	PCB Congener #162	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-45-0	PCB Congener #164	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-46-1	PCB Congener #165	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-72-6	PCB Congener #167	410		ng/kg	62	4/25/12 16:21	7/18/12 16:43	EPA 1668A
32774-16-6	PCB Congener #169	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35065-30-6	PCB Congener #170	2400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	650		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-74-8	PCB Congener #172	690		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
38411-25-5	PCB Congener #174	880		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
40186-70-7	PCB Congener #175	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-65-7	PCB Congener #176	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-70-4	PCB Congener #177	620		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-67-9	PCB Congener #178	540		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-64-6	PCB Congener #179	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	6700		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-47-2	PCB Congener #181	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
60145-23-5	PCB Congener #182	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	2000		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-48-3	PCB Congener #184	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-49-4	PCB Congener #186	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-68-0	PCB Congener #187	4400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74487-85-7	PCB Congener #188	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
39635-31-9	PCB Congener #189	100	J, Q-2	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
41411-64-7	PCB Congener #190	600		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-51-8	PCB Congener #192	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
35694-08-7	PCB Congener #194	1100		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-78-2	PCB Congener #195	490		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
42740-50-1	PCB Congener #196	730		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	2200		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
40186-71-8	PCB Congener #201	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
2136-99-4	PCB Congener #202	420		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-76-0	PCB Congener #203	2300		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-52-9	PCB Congener #204	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
74472-53-0	PCB Congener #205	78	J, Q-2	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
40186-72-9	PCB Congener #206	1400		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-79-3	PCB Congener #207	310	U	ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
52663-77-1	PCB Congener #208	590		ng/kg	310	4/25/12 16:21	8/08/12 14:27	EPA 1668A
2051-24-3	PCB Congener #209	2700		ng/kg	620	4/25/12 16:21	8/08/12 14:27	EPA 1668A





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-377

Lab ID: E113804-09

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		1/03/12 14:00	1/04/12 15:55	ASB E100



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	27		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
16606-02-3	PCB Congener # 31	12		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-90-5	PCB Congener # 37	3.5	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	14		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
36559-22-5	PCB Congener # 42	17		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	86		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	66		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
35693-99-3	PCB Congener # 52	110		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-43-1	PCB Congener # 56	18		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33025-41-1	PCB Congener # 60	11		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	130		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-58-8	PCB Congener # 64	41		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32598-10-0	PCB Congener # 66	98		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32598-13-3	PCB Congener # 77	5.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	280		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-60-2	PCB Congener # 84	11		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	60		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	29		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	190		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
52663-61-3	PCB Congener # 92	45		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	81		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32598-14-4	PCB Congener #105	64		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
70424-68-9	PCB Congener #107	26		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	310		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
31508-00-6	PCB Congener #118	240		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
65510-44-3	PCB Congener #123	5.6	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	67		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	480		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
51908-16-8	PCB Congener #146	150		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	200		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	600		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	5.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	34		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	10	4/25/12 16:21	7/18/12 17:46	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35065-30-6	PCB Congener #170	97		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	270		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	96		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-68-0	PCB Congener #187	240		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	75		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
2136-99-4	PCB Congener #202	27	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-76-0	PCB Congener #203	97		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
40186-72-9	PCB Congener #206	67		ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
52663-77-1	PCB Congener #208	25	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 15:31	EPA 1668A
2051-24-3	PCB Congener #209	110		ng/kg	100	4/25/12 16:21	8/08/12 15:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-378

Lab ID: E113804-10

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		1/03/12 14:00	1/04/12 15:55	ASB E100





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-90-5	PCB Congener # 37	5.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	29		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
36559-22-5	PCB Congener # 42	29		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	150		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-47-9	PCB Congener # 48	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
35693-99-3	PCB Congener # 52	180		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-43-1	PCB Congener # 56	31		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	15		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33025-41-1	PCB Congener # 60	20		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	210		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-58-8	PCB Congener # 64	66		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32598-10-0	PCB Congener # 66	210		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-379**

**Lab ID: E113804-11**

**Station ID: YAD-HRL-AC**

**Matrix: Fish**

**Date Collected: 8/23/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32598-13-3	PCB Congener # 77	7.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-62-4	PCB Congener # 82	13		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	450		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-60-2	PCB Congener # 84	25		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	170		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	43		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	320		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
52663-61-3	PCB Congener # 92	85		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32598-14-4	PCB Congener #105	110		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
70424-68-9	PCB Congener #107	42		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	490		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A



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## PCB Congeners

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-379**

**Lab ID: E113804-11**

**Station ID: YAD-HRL-AC**

**Matrix: Fish**

**Date Collected: 8/23/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	6.3	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
31508-00-6	PCB Congener #118	430		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
65510-44-3	PCB Congener #123	7.9	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	120		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	830		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38380-05-1	PCB Congener #132	50		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52712-04-6	PCB Congener #141	79		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
51908-16-8	PCB Congener #146	270		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	370		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1100		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	7.9	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	62		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
74472-42-7	PCB Congener #158	61		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-72-6	PCB Congener #167	34		ng/kg	9.9	4/25/12 16:21	7/18/12 18:50	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35065-30-6	PCB Congener #170	160		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
38411-25-5	PCB Congener #174	79		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-70-4	PCB Congener #177	71		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-67-9	PCB Congener #178	63		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	380		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	150		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-68-0	PCB Congener #187	370		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
39635-31-9	PCB Congener #189	7.6	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
35694-08-7	PCB Congener #194	82		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	150		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
2136-99-4	PCB Congener #202	52		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-76-0	PCB Congener #203	140		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
40186-72-9	PCB Congener #206	130		ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
52663-77-1	PCB Congener #208	49	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 16:35	EPA 1668A
2051-24-3	PCB Congener #209	240		ng/kg	99	4/25/12 16:21	8/08/12 16:35	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-379

Lab ID: E113804-11

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		1/04/12 12:14	1/05/12 10:40	ASB E100





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
2050-68-2	PCB Congener # 15	2.3	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	11		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-73-4	PCB Congener # 19	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	65		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
16606-02-3	PCB Congener # 31	31		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-90-5	PCB Congener # 37	5.4	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	38		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
36559-22-5	PCB Congener # 42	41		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	180		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-47-9	PCB Congener # 48	13		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	150		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
35693-99-3	PCB Congener # 52	220		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-43-1	PCB Congener # 56	41		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	20		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33025-41-1	PCB Congener # 60	23		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	300		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-58-8	PCB Congener # 64	81		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32598-10-0	PCB Congener # 66	290		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32598-13-3	PCB Congener # 77	9.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-62-4	PCB Congener # 82	25		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	590		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-60-2	PCB Congener # 84	32		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	140		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	240		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	63		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	440		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	170		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32598-14-4	PCB Congener #105	150		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
70424-68-9	PCB Congener #107	59		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	740		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	9.5	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
31508-00-6	PCB Congener #118	590		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
65510-44-3	PCB Congener #123	12		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1100		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-66-8	PCB Congener #130	52		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
38380-05-1	PCB Congener #132	81		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	230		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52712-04-6	PCB Congener #141	100		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
51908-16-8	PCB Congener #146	340		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	480		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1400		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	14		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	81		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
74472-42-7	PCB Congener #158	78		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-72-6	PCB Congener #167	46		ng/kg	9.9	4/25/12 16:21	7/18/12 19:54	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35065-30-6	PCB Congener #170	180		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	68		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-74-8	PCB Congener #172	55		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
38411-25-5	PCB Congener #174	110		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-70-4	PCB Congener #177	77		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-67-9	PCB Congener #178	69		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	610		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	190		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-68-0	PCB Congener #187	460		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
39635-31-9	PCB Congener #189	13	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A



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Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
35694-08-7	PCB Congener #194	100		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	170		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
2136-99-4	PCB Congener #202	62		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-76-0	PCB Congener #203	200		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
74472-53-0	PCB Congener #205	7.5	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
40186-72-9	PCB Congener #206	180		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
52663-77-1	PCB Congener #208	79		ng/kg	50	4/25/12 16:21	8/08/12 17:38	EPA 1668A
2051-24-3	PCB Congener #209	320		ng/kg	99	4/25/12 16:21	8/08/12 17:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-380

Lab ID: E113804-12

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
2050-68-2	PCB Congener # 15	2.6	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
16606-02-3	PCB Congener # 31	67		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-90-5	PCB Congener # 37	7.4	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	82		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
36559-22-5	PCB Congener # 42	80		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-46-8	PCB Congener # 43	10		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	350		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	18		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-47-9	PCB Congener # 48	20		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	250		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
35693-99-3	PCB Congener # 52	500		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-43-1	PCB Congener # 56	73		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	39		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33025-41-1	PCB Congener # 60	45		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	550		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74472-34-7	PCB Congener # 63	21		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-58-8	PCB Congener # 64	190		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32598-10-0	PCB Congener # 66	470		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-52-7	PCB Congener # 68	12		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A





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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	11		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32598-13-3	PCB Congener # 77	19		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-62-4	PCB Congener # 82	60		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1100		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-60-2	PCB Congener # 84	86		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	270		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	530		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	140		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	900		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
52663-61-3	PCB Congener # 92	260		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	420		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
60145-21-3	PCB Congener #103	15		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32598-14-4	PCB Congener #105	320		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	27		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1800		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	19		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
31508-00-6	PCB Congener #118	1100		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
68194-12-7	PCB Congener #120	18		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
65510-44-3	PCB Congener #123	19		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	360		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2300		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-66-8	PCB Congener #130	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38380-05-1	PCB Congener #132	210		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35694-04-3	PCB Congener #133	53		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	580		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38411-22-2	PCB Congener #136	59		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35694-06-5	PCB Congener #137	87		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52712-04-6	PCB Congener #141	220		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
51908-16-8	PCB Congener #146	750		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1200		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2400		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	31		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	180		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
74472-42-7	PCB Congener #158	180		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-45-0	PCB Congener #164	120		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-72-6	PCB Congener #167	98		ng/kg	10	4/25/12 16:21	7/18/12 20:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35065-30-6	PCB Congener #170	450		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	150		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-74-8	PCB Congener #172	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
38411-25-5	PCB Congener #174	240		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-70-4	PCB Congener #177	200		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-67-9	PCB Congener #178	160		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-64-6	PCB Congener #179	99		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1300		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	460		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-68-0	PCB Congener #187	1100		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
39635-31-9	PCB Congener #189	21	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
41411-64-7	PCB Congener #190	100		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
35694-08-7	PCB Congener #194	240		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	440		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
40186-71-8	PCB Congener #201	60		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
2136-99-4	PCB Congener #202	140		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-76-0	PCB Congener #203	450		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
74472-53-0	PCB Congener #205	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
40186-72-9	PCB Congener #206	410		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-79-3	PCB Congener #207	60		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
52663-77-1	PCB Congener #208	180		ng/kg	50	4/25/12 16:21	8/08/12 18:42	EPA 1668A
2051-24-3	PCB Congener #209	730		ng/kg	100	4/25/12 16:21	8/08/12 18:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-381

Lab ID: E113804-13

Station ID: YAD-HRL-AC

Matrix: Fish

Date Collected: 8/23/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
2050-68-2	PCB Congener # 15	3.4	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	12		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	40		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-85-8	PCB Congener # 22	13		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
16606-02-3	PCB Congener # 31	30		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-90-5	PCB Congener # 37	7.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	31		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
36559-22-5	PCB Congener # 42	24		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	120		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-47-9	PCB Congener # 48	11		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	76		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
35693-99-3	PCB Congener # 52	160		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-43-1	PCB Congener # 56	34		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33025-41-1	PCB Congener # 60	23		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	190		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-58-8	PCB Congener # 64	55		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32598-10-0	PCB Congener # 66	150		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32598-13-3	PCB Congener # 77	6.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-62-4	PCB Congener # 82	18		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	380		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-60-2	PCB Congener # 84	18		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	190		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	35		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	350		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
52663-61-3	PCB Congener # 92	93		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32598-14-4	PCB Congener #105	140		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
70424-68-9	PCB Congener #107	49		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	11		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	540		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	8.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
31508-00-6	PCB Congener #118	470		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
65510-44-3	PCB Congener #123	8.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1000		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-66-8	PCB Congener #130	53		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
38380-05-1	PCB Congener #132	77		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	210		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52712-04-6	PCB Congener #141	120		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
51908-16-8	PCB Congener #146	270		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	380		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1200		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	18		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	83		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
74472-42-7	PCB Congener #158	86		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-72-6	PCB Congener #167	39		ng/kg	10	4/25/12 16:21	7/18/12 22:01	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	62		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
38411-25-5	PCB Congener #174	85		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-67-9	PCB Congener #178	79		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	560		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	200		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-68-0	PCB Congener #187	430		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
39635-31-9	PCB Congener #189	9.2	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
35694-08-7	PCB Congener #194	100		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	220		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
2136-99-4	PCB Congener #202	92		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-76-0	PCB Congener #203	230		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
74472-53-0	PCB Congener #205	8.0	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
40186-72-9	PCB Congener #206	220		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
52663-77-1	PCB Congener #208	71		ng/kg	50	4/25/12 16:21	8/08/12 19:46	EPA 1668A
2051-24-3	PCB Congener #209	160		ng/kg	100	4/25/12 16:21	8/08/12 19:46	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-358

Lab ID: E113804-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2051-61-8	PCB Congener # 2	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2051-62-9	PCB Congener # 3	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
13029-08-8	PCB Congener # 4	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
16605-91-7	PCB Congener # 5	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
25569-80-6	PCB Congener # 6	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33284-50-3	PCB Congener # 7	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
34883-43-7	PCB Congener # 8	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
34883-39-1	PCB Congener # 9	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33146-45-1	PCB Congener # 10	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2050-67-1	PCB Congener # 11	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
34883-41-5	PCB Congener # 14	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
2050-68-2	PCB Congener # 15	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-78-9	PCB Congener # 16	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
37680-66-3	PCB Congener # 17	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-73-4	PCB Congener # 19	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	45		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-85-8	PCB Congener # 22	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
55720-44-0	PCB Congener # 23	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
55702-45-9	PCB Congener # 24	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
55712-37-3	PCB Congener # 25	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-76-7	PCB Congener # 27	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
16606-02-3	PCB Congener # 31	30		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-77-8	PCB Congener # 32	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
37680-69-6	PCB Congener # 35	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-87-0	PCB Congener # 36	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-90-5	PCB Congener # 37	8.1	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
53555-66-1	PCB Congener # 38	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
38444-88-1	PCB Congener # 39	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	23		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
36559-22-5	PCB Congener # 42	23		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-46-8	PCB Congener # 43	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	130		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-47-5	PCB Congener # 46	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-47-9	PCB Congener # 48	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	93		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
35693-99-3	PCB Congener # 52	160		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
15968-05-5	PCB Congener # 54	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74338-24-2	PCB Congener # 55	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-43-1	PCB Congener # 56	23		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70424-67-8	PCB Congener # 57	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-49-7	PCB Congener # 58	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33025-41-1	PCB Congener # 60	20		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	180		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74472-34-7	PCB Congener # 63	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-58-8	PCB Congener # 64	52		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32598-10-0	PCB Congener # 66	160		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-53-8	PCB Congener # 67	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-52-7	PCB Congener # 68	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74338-23-1	PCB Congener # 73	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32598-13-3	PCB Congener # 77	5.6	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-49-1	PCB Congener # 78	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
41464-48-6	PCB Congener # 79	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
33284-52-5	PCB Congener # 80	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70362-50-4	PCB Congener # 81	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-62-4	PCB Congener # 82	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	400		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-60-2	PCB Congener # 84	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	170		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	33		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-57-2	PCB Congener # 89	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	340		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
52663-61-3	PCB Congener # 92	94		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	95		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-55-0	PCB Congener # 94	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
73575-54-9	PCB Congener # 96	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
60145-21-3	PCB Congener #103	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
56558-16-8	PCB Congener #104	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32598-14-4	PCB Congener #105	140		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70424-69-0	PCB Congener #106	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
70424-68-9	PCB Congener #107	47		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	420		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
39635-32-0	PCB Congener #111	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74472-36-9	PCB Congener #112	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.1	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
31508-00-6	PCB Congener #118	480		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
68194-12-7	PCB Congener #120	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
56558-18-0	PCB Congener #121	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
76842-07-4	PCB Congener #122	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
65510-44-3	PCB Congener #123	8.3	J, Q-2	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
57465-28-8	PCB Congener #126	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
39635-33-1	PCB Congener #127	18	U	ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	960		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-66-8	PCB Congener #130	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
61798-70-7	PCB Congener #131	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
38380-05-1	PCB Congener #132	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35694-04-3	PCB Congener #133	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
38411-22-2	PCB Congener #136	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35694-06-5	PCB Congener #137	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52712-04-6	PCB Congener #141	97		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
41411-61-4	PCB Congener #142	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
68194-14-9	PCB Congener #144	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-40-5	PCB Congener #145	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
51908-16-8	PCB Congener #146	250		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	300		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-41-6	PCB Congener #148	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
68194-08-1	PCB Congener #150	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
68194-09-2	PCB Congener #152	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1100		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	20		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	71		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
74472-42-7	PCB Congener #158	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
39635-35-3	PCB Congener #159	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-43-8	PCB Congener #161	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
39635-34-2	PCB Congener #162	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-45-0	PCB Congener #164	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-46-1	PCB Congener #165	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-72-6	PCB Congener #167	38		ng/kg	18	4/25/12 16:21	7/18/12 23:05	EPA 1668A
32774-16-6	PCB Congener #169	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35065-30-6	PCB Congener #170	200		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-74-8	PCB Congener #172	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
38411-25-5	PCB Congener #174	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
40186-70-7	PCB Congener #175	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-65-7	PCB Congener #176	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-70-4	PCB Congener #177	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-67-9	PCB Congener #178	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-64-6	PCB Congener #179	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	490		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-47-2	PCB Congener #181	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
60145-23-5	PCB Congener #182	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	180		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-48-3	PCB Congener #184	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-49-4	PCB Congener #186	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-68-0	PCB Congener #187	380		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74487-85-7	PCB Congener #188	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
39635-31-9	PCB Congener #189	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
41411-64-7	PCB Congener #190	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-51-8	PCB Congener #192	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
35694-08-7	PCB Congener #194	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-78-2	PCB Congener #195	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
42740-50-1	PCB Congener #196	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
40186-71-8	PCB Congener #201	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
2136-99-4	PCB Congener #202	60	J, Q-2	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-76-0	PCB Congener #203	140		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-52-9	PCB Congener #204	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
74472-53-0	PCB Congener #205	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-79-3	PCB Congener #207	91	U	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
52663-77-1	PCB Congener #208	57	J, Q-2	ng/kg	91	4/25/12 16:21	8/08/12 20:50	EPA 1668A
2051-24-3	PCB Congener #209	130	J, Q-2	ng/kg	180	4/25/12 16:21	8/08/12 20:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-359

Lab ID: E113804-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
2050-68-2	PCB Congener # 15	2.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	19		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
16606-02-3	PCB Congener # 31	14		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-90-5	PCB Congener # 37	3.4	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	17		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	44		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	32		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
35693-99-3	PCB Congener # 52	52		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-43-1	PCB Congener # 56	12		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	56		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-58-8	PCB Congener # 64	22		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32598-10-0	PCB Congener # 66	35		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32598-13-3	PCB Congener # 77	2.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	90		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-60-2	PCB Congener # 84	14		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	28		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	54		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	14		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	90		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
52663-61-3	PCB Congener # 92	21		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	55		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32598-14-4	PCB Congener #105	34		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
70424-68-9	PCB Congener #107	10		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	210		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
31508-00-6	PCB Congener #118	110		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
65510-44-3	PCB Congener #123	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	230		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	59		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
51908-16-8	PCB Congener #146	60		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	120		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	250		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	5.9	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	17		ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-72-6	PCB Congener #167	9.3	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 0:09	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35065-30-6	PCB Congener #170	51		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-68-0	PCB Congener #187	92		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
2136-99-4	PCB Congener #202	22	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-76-0	PCB Congener #203	50		ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
40186-72-9	PCB Congener #206	48	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
52663-77-1	PCB Congener #208	32	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 21:53	EPA 1668A
2051-24-3	PCB Congener #209	54	J, Q-2	ng/kg	100	4/25/12 16:21	8/08/12 21:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-360

Lab ID: E113804-16

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
13029-08-8	PCB Congener # 4	1.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
2050-68-2	PCB Congener # 15	2.0	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	15		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-73-4	PCB Congener # 19	1.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	37	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
16606-02-3	PCB Congener # 31	24	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-90-5	PCB Congener # 37	5.1	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	36		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
36559-22-5	PCB Congener # 42	27		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	120		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-47-9	PCB Congener # 48	12		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	88		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
35693-99-3	PCB Congener # 52	140		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-43-1	PCB Congener # 56	24		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33025-41-1	PCB Congener # 60	16		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	150	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-58-8	PCB Congener # 64	54		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32598-10-0	PCB Congener # 66	120		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32598-13-3	PCB Congener # 77	6.2	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-62-4	PCB Congener # 82	20		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	330		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-60-2	PCB Congener # 84	29	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	90	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	170		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	37		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
52663-61-3	PCB Congener # 92	81		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	150		ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32598-14-4	PCB Congener #105	110	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
70424-68-9	PCB Congener #107	38	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	580	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.5	J, Q-2, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
31508-00-6	PCB Congener #118	370	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
65510-44-3	PCB Congener #123	6.5	J, Q-2, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	860	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
38380-05-1	PCB Congener #132	70		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52712-04-6	PCB Congener #141	100	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
51908-16-8	PCB Congener #146	220	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	410		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	940	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	16	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	62	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
74472-42-7	PCB Congener #158	68		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-72-6	PCB Congener #167	33	J, QM-4	ng/kg	10	4/25/12 16:21	7/19/12 1:12	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35065-30-6	PCB Congener #170	150	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
38411-25-5	PCB Congener #174	85		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-70-4	PCB Congener #177	72		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	340	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	150	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-68-0	PCB Congener #187	370	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
39635-31-9	PCB Congener #189	7.0	J, Q-2	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-361

Lab ID: E113804-17

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
35694-08-7	PCB Congener #194	71		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	150		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
2136-99-4	PCB Congener #202	71		ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-76-0	PCB Congener #203	160	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
40186-72-9	PCB Congener #206	190	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
52663-77-1	PCB Congener #208	83	J, QM-4	ng/kg	50	4/25/12 16:21	8/08/12 22:57	EPA 1668A
2051-24-3	PCB Congener #209	160		ng/kg	100	4/25/12 16:21	8/08/12 22:57	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-361**

**Lab ID: E113804-17**

**Station ID: YAD-HRL-UR**

**Matrix: Fish**

**Date Collected: 8/24/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.0		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
2050-68-2	PCB Congener # 15	5.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
37680-66-3	PCB Congener # 17	18		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	22		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-73-4	PCB Congener # 19	3.8	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	69		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	14		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-85-8	PCB Congener # 22	16		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
16606-02-3	PCB Congener # 31	44		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-90-5	PCB Congener # 37	8.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	55		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
36559-22-5	PCB Congener # 42	50		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	180		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	20		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-47-9	PCB Congener # 48	16		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	130		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	13		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
35693-99-3	PCB Congener # 52	240		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-43-1	PCB Congener # 56	39		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	18		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33025-41-1	PCB Congener # 60	18		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	210		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-58-8	PCB Congener # 64	76		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32598-10-0	PCB Congener # 66	140		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A



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**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32598-13-3	PCB Congener # 77	7.2	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-62-4	PCB Congener # 82	25		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	280		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-60-2	PCB Congener # 84	60		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	69		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	190		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	55		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
52663-61-3	PCB Congener # 92	78		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	240		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32598-14-4	PCB Congener #105	83		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
70424-68-9	PCB Congener #107	27		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	380		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.9	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
31508-00-6	PCB Congener #118	280		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
65510-44-3	PCB Congener #123	5.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	78		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	640		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
38380-05-1	PCB Congener #132	120		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	180		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52712-04-6	PCB Congener #141	78		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
51908-16-8	PCB Congener #146	160		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	430		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	650		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	15		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	46		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-72-6	PCB Congener #167	23		ng/kg	9.9	4/25/12 16:21	7/19/12 11:53	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35065-30-6	PCB Congener #170	120		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
38411-25-5	PCB Congener #174	110		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-70-4	PCB Congener #177	80		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-67-9	PCB Congener #178	56		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-64-6	PCB Congener #179	59		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	300		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	120		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-68-0	PCB Congener #187	280		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A



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### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
35694-08-7	PCB Congener #194	53		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
2136-99-4	PCB Congener #202	61		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-76-0	PCB Congener #203	110		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
52663-77-1	PCB Congener #208	75		ng/kg	50	4/25/12 16:21	8/09/12 0:01	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	99	4/25/12 16:21	8/09/12 0:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-362

Lab ID: E113804-18

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.7		%		1/04/12 12:14	1/05/12 10:40	ASB E100





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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
13029-08-8	PCB Congener # 4	2.1	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
2050-68-2	PCB Congener # 15	3.0	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	13		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-73-4	PCB Congener # 19	1.7	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	48		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-85-8	PCB Congener # 22	11		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
16606-02-3	PCB Congener # 31	30		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-90-5	PCB Congener # 37	6.2	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	40		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
36559-22-5	PCB Congener # 42	28		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	130		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	14		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-47-9	PCB Congener # 48	13		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	74		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
35693-99-3	PCB Congener # 52	170		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-43-1	PCB Congener # 56	27		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33025-41-1	PCB Congener # 60	13		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	130		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-58-8	PCB Congener # 64	51		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32598-10-0	PCB Congener # 66	110		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A



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**PCB Congeners**

**Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32598-13-3	PCB Congener # 77	5.0	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-62-4	PCB Congener # 82	20		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	200		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-60-2	PCB Congener # 84	39		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	57		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	140		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	34		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	230		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
52663-61-3	PCB Congener # 92	54		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	160		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32598-14-4	PCB Congener #105	68		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
70424-68-9	PCB Congener #107	20		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	260		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.4	J, Q-2	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
31508-00-6	PCB Congener #118	210		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
65510-44-3	PCB Congener #123	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	68		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	410		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
38380-05-1	PCB Congener #132	79		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	140		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52712-04-6	PCB Congener #141	63		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
51908-16-8	PCB Congener #146	98		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	290		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	470		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A



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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	9.9		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	32		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	9.9	4/25/12 16:21	7/19/12 12:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35065-30-6	PCB Congener #170	82		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
38411-25-5	PCB Congener #174	88		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	240		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	77		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-68-0	PCB Congener #187	180		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	94		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
2136-99-4	PCB Congener #202	47	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-76-0	PCB Congener #203	91		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
40186-72-9	PCB Congener #206	120		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
52663-77-1	PCB Congener #208	62		ng/kg	50	4/25/12 16:21	8/09/12 12:14	EPA 1668A
2051-24-3	PCB Congener #209	85	J, Q-2	ng/kg	99	4/25/12 16:21	8/09/12 12:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-363

Lab ID: E113804-19

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		1/04/12 12:14	1/05/12 10:40	ASB E100





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## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
13029-08-8	PCB Congener # 4	3.8	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
2050-68-2	PCB Congener # 15	5.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-78-9	PCB Congener # 16	12		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
37680-66-3	PCB Congener # 17	25		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	37		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-73-4	PCB Congener # 19	4.7	J, Q-2	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	120		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	22		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-85-8	PCB Congener # 22	21		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	14		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
16606-02-3	PCB Congener # 31	60		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-77-8	PCB Congener # 32	16		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-90-5	PCB Congener # 37	11		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	84		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
36559-22-5	PCB Congener # 42	68		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	320		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	25		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-47-9	PCB Congener # 48	24		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	200		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	13		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
35693-99-3	PCB Congener # 52	380		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-43-1	PCB Congener # 56	49		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	32		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33025-41-1	PCB Congener # 60	37		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	400		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74472-34-7	PCB Congener # 63	15		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-58-8	PCB Congener # 64	120		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32598-10-0	PCB Congener # 66	320		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32598-13-3	PCB Congener # 77	12		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-62-4	PCB Congener # 82	44		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	650		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-60-2	PCB Congener # 84	63		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	160		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	320		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	93		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	660		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
52663-61-3	PCB Congener # 92	160		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	340		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
60145-21-3	PCB Congener #103	11		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32598-14-4	PCB Congener #105	230		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
70424-68-9	PCB Congener #107	72		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	20		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	620		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	15		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
31508-00-6	PCB Congener #118	720		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
65510-44-3	PCB Congener #123	15		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	240		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1800		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-66-8	PCB Congener #130	89		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
38380-05-1	PCB Congener #132	170		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	420		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35694-06-5	PCB Congener #137	68		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
51908-16-8	PCB Congener #146	420		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	910		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1900		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	41		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	130		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
74472-42-7	PCB Congener #158	140		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-45-0	PCB Congener #164	91		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-72-6	PCB Congener #167	73		ng/kg	10	4/25/12 16:21	7/19/12 14:01	EPA 1668A
32774-16-6	PCB Congener #169	21	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35065-30-6	PCB Congener #170	310		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	93		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-74-8	PCB Congener #172	72		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
38411-25-5	PCB Congener #174	240		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-67-9	PCB Congener #178	100		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-64-6	PCB Congener #179	63		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	980		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	310		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-48-3	PCB Congener #184	53		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-68-0	PCB Congener #187	750		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
39635-31-9	PCB Congener #189	16	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
41411-64-7	PCB Congener #190	65		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
35694-08-7	PCB Congener #194	190		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-78-2	PCB Congener #195	75		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
42740-50-1	PCB Congener #196	85		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	340		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
2136-99-4	PCB Congener #202	130		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-76-0	PCB Congener #203	360		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
74472-53-0	PCB Congener #205	15	J, Q-2	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
40186-72-9	PCB Congener #206	430		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
52663-77-1	PCB Congener #208	160		ng/kg	50	4/25/12 16:21	8/09/12 13:18	EPA 1668A
2051-24-3	PCB Congener #209	360		ng/kg	100	4/25/12 16:21	8/09/12 13:18	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-364

Lab ID: E113804-20

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.6		%		1/04/12 12:14	1/05/12 10:40	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	102.02		ng/kg	199.80		51.1	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	146.13		"	199.80		73.1	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	274.25		"	199.80		137	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	159.94		"	199.80		80.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	217.68		"	199.80		109	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	61.698		"	199.80		30.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	145.51		"	199.80		72.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	73.167		"	199.80		36.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	56.364		"	199.80		28.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	195.18		"	199.80		97.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	92.687		"	199.80		46.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	93.586		"	199.80		46.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	95.405		"	199.80		47.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	79.101		"	199.80		39.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	78.222		"	199.80		39.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	132.49		"	199.80		66.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	151.07		"	399.60		37.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	70.629		"	199.80		35.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	91.009		"	199.80		45.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	219.68		"	199.80		110	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	97.802		"	199.80		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	217.78		"	199.80		109	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	152.55		"	199.80		76.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	133.77		"	199.80		66.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	191.51		"	199.80		95.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	116.58		"	199.80		58.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	94.226		"	195.80		48.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	170.31		"	193.81		87.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	187.83		"	181.82		103	30-135			
PCB Congener # 1	U	10	"							U
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	U	10	"							U
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	U	10	"							U
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	U	10	"							U
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	U	10	"							U
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	U	10	"							U
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U
PCB Congener # 58	U	10	"							U





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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 59 and/or 62,75	U	10	ng/kg							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	U	10	"							U
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	U	10	"							U
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	2.5	10	"							B-3, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	U	10	"							U
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	7.6	10	"							B-3, Q-2, J



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	50	"							U
PCB Congener #129 and/or 138,160,163	U	50	"							U
PCB Congener #130	U	50	"							U
PCB Congener #131	U	50	"							U
PCB Congener #132	U	50	"							U
PCB Congener #133	U	50	"							U
PCB Congener #134 and/or 143	U	50	"							U
PCB Congener #135 and/or 151,154	U	50	"							U
PCB Congener #136	U	50	"							U
PCB Congener #137	U	50	"							U
PCB Congener #139 and/or 140	U	50	"							U
PCB Congener #141	U	50	"							U
PCB Congener #142	U	50	"							U
PCB Congener #144	U	50	"							U
PCB Congener #145	U	50	"							U
PCB Congener #146	U	50	"							U
PCB Congener #147 and/or 149	U	50	"							U
PCB Congener #148	U	50	"							U
PCB Congener #150	U	50	"							U
PCB Congener #152	U	50	"							U
PCB Congener #153 and/or 168	U	50	"							U
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	50	"							U
PCB Congener #159	U	50	"							U
PCB Congener #161	U	50	"							U
PCB Congener #162	U	50	"							U
PCB Congener #164	U	50	"							U
PCB Congener #165	U	50	"							U
PCB Congener #167	U	10	"							U
PCB Congener #169	U	50	"							U
PCB Congener #170	U	50	"							U
PCB Congener #171 and/or 173	U	50	"							U
PCB Congener #172	U	50	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Blank (1204125-BLK1)**

Prepared: 04/25/12 Analyzed: 08/07/12

PCB Congener #174	U	50	ng/kg							U
PCB Congener #175	U	50	"							U
PCB Congener #176	U	50	"							U
PCB Congener #177	U	50	"							U
PCB Congener #178	U	50	"							U
PCB Congener #179	U	50	"							U
PCB Congener #180 and/or 193	U	50	"							U
PCB Congener #181	U	50	"							U
PCB Congener #182	U	50	"							U
PCB Congener #183 and/or 185	U	50	"							U
PCB Congener #184	U	50	"							U
PCB Congener #186	U	50	"							U
PCB Congener #187	U	50	"							U
PCB Congener #188	U	50	"							U
PCB Congener #189	U	50	"							U
PCB Congener #190	U	50	"							U
PCB Congener #191	U	50	"							U
PCB Congener #192	U	50	"							U
PCB Congener #194	U	50	"							U
PCB Congener #195	U	50	"							U
PCB Congener #196	U	50	"							U
PCB Congener #197 and/or 200	U	50	"							U
PCB Congener #198 and/or 199	U	50	"							U
PCB Congener #201	U	50	"							U
PCB Congener #202	U	50	"							U
PCB Congener #203	U	50	"							U
PCB Congener #204	U	50	"							U
PCB Congener #205	U	50	"							U
PCB Congener #206	U	50	"							U
PCB Congener #207	U	50	"							U
PCB Congener #208	U	50	"							U
PCB Congener #209	U	100	"							U



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Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

LCS (1204125-BS1)

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	98.391		ng/kg	198.61		49.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	112.17		"	198.61		56.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	220.85		"	198.61		111	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	109.08		"	198.61		54.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	174.70		"	198.61		88.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	80.497		"	198.61		40.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	203.26		"	198.61		102	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	82.264		"	198.61		41.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	59.940		"	198.61		30.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	149.91		"	198.61		75.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	77.577		"	198.61		39.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	75.472		"	198.61		38.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	68.342		"	198.61		34.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	67.110		"	198.61		33.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	66.753		"	198.61		33.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	136.33		"	198.61		68.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	121.65		"	397.22		30.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	69.355		"	198.61		34.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	71.400		"	198.61		36.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	196.03		"	198.61		98.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	100.20		"	198.61		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	147.77		"	198.61		74.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	92.790		"	198.61		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	180.10		"	198.61		90.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	129.49		"	198.61		65.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	253.41		"	198.61		128	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	111.94		"	194.64		57.5	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	154.66		"	192.65		80.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	232.29		"	180.73		129	40-125			QS-5
PCB Congener # 1	77	9.9	"	99.305		77.7	50-150			
PCB Congener # 3	81	9.9	"	99.305		81.5	50-150			
PCB Congener # 4	75	9.9	"	99.305		75.1	50-150			
PCB Congener # 15	88	9.9	"	99.305		88.5	50-150			
PCB Congener # 19	78	9.9	"	99.305		78.2	50-150			
PCB Congener # 37	80	9.9	"	99.305		80.2	50-150			
PCB Congener # 54	81	9.9	"	99.305		82.0	50-150			
PCB Congener # 77	75	9.9	"	99.305		75.2	50-150			
PCB Congener # 81	75	9.9	"	99.305		75.1	50-150			



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**LCS (1204125-BS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener #104	76	9.9	ng/kg	99.305		76.5	50-150			
PCB Congener #105	81	9.9	"	99.305		81.2	50-150			
PCB Congener #114	79	9.9	"	99.305		79.4	50-150			
PCB Congener #118	86	9.9	"	99.305		86.8	50-150			
PCB Congener #123	81	9.9	"	99.305		81.7	50-150			
PCB Congener #126	68	9.9	"	99.305		68.5	50-150			
PCB Congener #155	79	9.9	"	99.305		79.8	50-150			
PCB Congener #156 and/or 157	150	9.9	"	198.61		77.7	50-150			
PCB Congener #167	84	9.9	"	99.305		85.0	50-150			
PCB Congener #169	79	50	"	99.305		79.6	50-150			
PCB Congener #188	66	50	"	99.305		66.9	50-150			
PCB Congener #189	92	9.9	"	99.305		92.9	50-150			
PCB Congener #202	76	50	"	99.305		76.5	50-150			
PCB Congener #205	76	9.9	"	99.305		76.8	50-150			
PCB Congener #206	87	9.9	"	99.305		87.3	50-150			
PCB Congener #208	68	9.9	"	99.305		68.9	50-150			
PCB Congener #209	89	20	"	99.305		90.1	50-150			

**LCS Dup (1204125-BSD1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	95.383		ng/kg	199.00		47.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	98.527		"	199.00		49.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	203.10		"	199.00		102	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	106.17		"	199.00		53.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	158.91		"	199.00		79.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	82.866		"	199.00		41.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	207.26		"	199.00		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	82.448		"	199.00		41.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	64.219		"	199.00		32.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	166.47		"	199.00		83.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	79.522		"	199.00		40.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	66.269		"	199.00		33.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	81.393		"	199.00		40.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	80.915		"	199.00		40.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	71.463		"	199.00		35.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	128.98		"	199.00		64.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	124.64		"	398.01		31.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	67.284		"	199.00		33.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	65.672		"	199.00		33.0	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**LCS Dup (1204125-BSD1)**

Prepared: 04/25/12 Analyzed: 08/07/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	147.76		ng/kg	199.00		74.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	88.876		"	199.00		44.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	146.47		"	199.00		73.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	88.836		"	199.00		44.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	172.08		"	199.00		86.5	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	118.09		"	199.00		59.3	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	221.01		"	199.00		111	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	119.78		"	195.02		61.4	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	172.04		"	193.03		89.1	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	248.16		"	181.09		137	40-125			QS-5
PCB Congener # 1	89	10	"	99.502		89.2	50-150	14.1	30	
PCB Congener # 3	84	10	"	99.502		84.2	50-150	3.51	30	
PCB Congener # 4	79	10	"	99.502		79.0	50-150	5.21	30	
PCB Congener # 15	89	10	"	99.502		89.1	50-150	0.897	30	
PCB Congener # 19	82	10	"	99.502		82.9	50-150	6.03	30	
PCB Congener # 37	83	10	"	99.502		83.6	50-150	4.35	30	
PCB Congener # 54	84	10	"	99.502		84.6	50-150	3.32	30	
PCB Congener # 77	76	10	"	99.502		76.7	50-150	2.10	30	
PCB Congener # 81	80	10	"	99.502		79.9	50-150	6.47	30	
PCB Congener #104	73	10	"	99.502		73.5	50-150	3.85	30	
PCB Congener #105	74	10	"	99.502		74.5	50-150	8.51	30	
PCB Congener #114	73	10	"	99.502		73.8	50-150	7.01	30	
PCB Congener #118	82	10	"	99.502		82.5	50-150	4.98	30	
PCB Congener #123	72	10	"	99.502		71.9	50-150	12.6	30	
PCB Congener #126	66	10	"	99.502		65.9	50-150	3.70	30	
PCB Congener #155	73	10	"	99.502		73.8	50-150	7.58	30	
PCB Congener #156 and/or 157	140	10	"	199.00		71.1	50-150	8.58	30	
PCB Congener #167	75	10	"	99.502		75.0	50-150	12.4	30	
PCB Congener #169	63	50	"	99.502		63.3	50-150	22.6	30	
PCB Congener #188	70	50	"	99.502		69.9	50-150	4.58	30	
PCB Congener #189	86	10	"	99.502		86.1	50-150	7.44	30	
PCB Congener #202	61	50	"	99.502		61.6	50-150	21.4	30	
PCB Congener #205	67	10	"	99.502		67.6	50-150	12.5	30	
PCB Congener #206	73	10	"	99.502		73.3	50-150	17.3	30	
PCB Congener #208	61	10	"	99.502		61.7	50-150	10.9	30	
PCB Congener #209	80	20	"	99.502		80.5	50-150	11.1	30	



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	108.34		ng/kg	199.60		54.3	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	120.12		"	199.60		60.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	214.55		"	199.60		107	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	118.46		"	199.60		59.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	117.43		"	199.60		58.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	76.108		"	199.60		38.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	209.76		"	199.60		105	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	66.946		"	199.60		33.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	50.319		"	199.60		25.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	181.50		"	199.60		90.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	75.230		"	199.60		37.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	80.958		"	199.60		40.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	88.543		"	199.60		44.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	79.102		"	199.60		39.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	52.735		"	199.60		26.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	157.15		"	199.60		78.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	148.78		"	399.20		37.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	73.493		"	199.60		36.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	88.623		"	199.60		44.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	212.67		"	199.60		107	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	100.70		"	199.60		50.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	200.50		"	199.60		100	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	144.11		"	199.60		72.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	124.95		"	199.60		62.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	168.46		"	199.60		84.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	107.09		"	199.60		53.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	100.08		"	195.61		51.2	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	143.95		"	193.61		74.4	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	242.79		"	181.64		134	30-135			
PCB Congener # 1	U	10	"		U				30	U
PCB Congener # 2	U	10	"		U				30	U
PCB Congener # 3	U	10	"		U				30	U
PCB Congener # 4	2.4	10	"		1.8			27.4	30	J, Q-2
PCB Congener # 5	U	10	"		U				30	U
PCB Congener # 6	U	10	"		U				30	U
PCB Congener # 7	U	10	"		U				30	U
PCB Congener # 8	U	10	"		U				30	U
PCB Congener # 9	U	10	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 10	U	10	ng/kg		U				30	U
PCB Congener # 11	U	10	"		U				30	U
PCB Congener # 12 and/or 13	U	10	"		U				30	U
PCB Congener # 14	U	10	"		U				30	U
PCB Congener # 15	3.2	10	"		U				30	J, Q-2
PCB Congener # 16	U	10	"		U				30	U
PCB Congener # 17	10	10	"		U				30	
PCB Congener # 18 and/or 30	14	10	"		15			3.57	30	
PCB Congener # 19	U	10	"		1.8				30	U
PCB Congener # 20 and/or 28	54	10	"		37			38.1	30	J, QM-4
PCB Congener # 21 and/or 33	12	10	"		U				30	
PCB Congener # 22	11	10	"		U				30	
PCB Congener # 23	U	10	"		U				30	U
PCB Congener # 24	U	10	"		U				30	U
PCB Congener # 25	U	10	"		U				30	U
PCB Congener # 26 and/or 29	U	10	"		U				30	U
PCB Congener # 27	U	10	"		U				30	U
PCB Congener # 31	38	10	"		24			45.0	30	J, QM-4
PCB Congener # 32	U	10	"		U				30	U
PCB Congener # 34	U	10	"		U				30	U
PCB Congener # 35	U	10	"		U				30	U
PCB Congener # 36	U	10	"		U				30	U
PCB Congener # 37	5.2	10	"		5.1			1.74	30	J, Q-2
PCB Congener # 38	U	10	"		U				30	U
PCB Congener # 39	U	10	"		U				30	U
PCB Congener # 40 and/or 41,71	47	10	"		36			26.5	30	
PCB Congener # 42	32	10	"		27			15.9	30	
PCB Congener # 43	U	10	"		U				30	U
PCB Congener # 44 and/or 47,65	110	10	"		120			6.89	30	
PCB Congener # 45 and/or 51	14	10	"		U				30	
PCB Congener # 46	U	10	"		U				30	U
PCB Congener # 48	14	10	"		12			15.1	30	
PCB Congener # 49 and/or 69	87	10	"		88			1.74	30	
PCB Congener # 50 and/or 53	U	10	"		U				30	U
PCB Congener # 52	170	10	"		140			16.9	30	
PCB Congener # 54	U	10	"		U				30	U
PCB Congener # 55	U	10	"		U				30	U
PCB Congener # 56	30	10	"		24			25.4	30	
PCB Congener # 57	U	10	"		U				30	U
PCB Congener # 58	U	10	"		U				30	U





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 59 and/or 62,75	12	10	ng/kg		11		1.77	30		
PCB Congener # 60	15	10	"		16		4.72	30		
PCB Congener # 61 and/or 70,74,76	230	10	"		150		41.2	30		J, QM-4
PCB Congener # 63	12	10	"		U			30		
PCB Congener # 64	64	10	"		54		16.2	30		
PCB Congener # 66	110	10	"		120		8.64	30		
PCB Congener # 67	U	10	"		U			30		U
PCB Congener # 68	U	10	"		U			30		U
PCB Congener # 72	U	10	"		U			30		U
PCB Congener # 73	U	10	"		U			30		U
PCB Congener # 77	5.1	10	"		6.2		19.6	30		J, Q-2
PCB Congener # 78	U	10	"		U			30		U
PCB Congener # 79	U	10	"		U			30		U
PCB Congener # 80	U	10	"		U			30		U
PCB Congener # 81	U	10	"		U			30		U
PCB Congener # 82	22	10	"		20		7.88	30		
PCB Congener # 83 and/or 99	260	10	"		330		22.7	30		
PCB Congener # 84	47	10	"		29		45.9	30		J, QM-4
PCB Congener # 85 and/or 116,117	52	10	"		90		52.6	30		J, QM-4
PCB Congener # 86 and/or 87,97,109,119,125	150	10	"		170		15.9	30		
PCB Congener # 88 and/or 91	36	10	"		37		0.783	30		
PCB Congener # 89	U	10	"		U			30		U
PCB Congener # 90 and/or 101,113	260	10	"		330		23.9	30		
PCB Congener # 92	65	10	"		81		22.6	30		
PCB Congener # 93 and/or 95,98,100,102	150	10	"		150		0.968	30		
PCB Congener # 94	U	10	"		U			30		U
PCB Congener # 96	U	10	"		U			30		U
PCB Congener #103	U	10	"		U			30		U
PCB Congener #104	U	10	"		U			30		U
PCB Congener #105	71	10	"		110		41.4	30		J, QM-4
PCB Congener #106	U	10	"		U			30		U
PCB Congener #107	22	10	"		38		54.2	30		J, QM-4
PCB Congener #108 and/or 124	U	10	"		U			30		U
PCB Congener #110 and/or 115	240	10	"		580		82.0	30		J, QM-4
PCB Congener #111	U	10	"		U			30		U
PCB Congener #112	U	10	"		U			30		U
PCB Congener #114	3.7	10	"		6.5		56.0	30		J, Q-2, QM-4
PCB Congener #118	210	10	"		370		52.3	30		J, QM-4
PCB Congener #120	U	10	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener #121	U	10	ng/kg		U			30		U
PCB Congener #122	U	10	"		U			30		U
PCB Congener #123	4.5	10	"		6.5			35.7	30	J, Q-2, QM-4
PCB Congener #126	U	10	"		U			30		U
PCB Congener #127	U	10	"		U			30		U
PCB Congener #128 and/or 166	66	50	"		110			53.1	30	J, QM-4
PCB Congener #129 and/or 138,160,163	480	50	"		860			57.3	30	J, QM-4
PCB Congener #130	U	50	"		U			30		U
PCB Congener #131	U	50	"		U			30		U
PCB Congener #132	88	50	"		70			23.0	30	
PCB Congener #133	U	50	"		U			30		U
PCB Congener #134 and/or 143	U	50	"		U			30		U
PCB Congener #135 and/or 151,154	160	50	"		200			22.4	30	
PCB Congener #136	U	50	"		U			30		U
PCB Congener #137	U	50	"		U			30		U
PCB Congener #139 and/or 140	U	50	"		U			30		U
PCB Congener #141	69	50	"		100			37.5	30	J, QM-4
PCB Congener #142	U	50	"		U			30		U
PCB Congener #144	U	50	"		U			30		U
PCB Congener #145	U	50	"		U			30		U
PCB Congener #146	100	50	"		220			73.0	30	J, QM-4
PCB Congener #147 and/or 149	380	50	"		410			6.05	30	
PCB Congener #148	U	50	"		U			30		U
PCB Congener #150	U	50	"		U			30		U
PCB Congener #152	U	50	"		U			30		U
PCB Congener #153 and/or 168	490	50	"		940			63.3	30	J, QM-4
PCB Congener #155	11	10	"		16			33.9	30	J, QM-4
PCB Congener #156 and/or 157	34	10	"		62			58.6	30	J, QM-4
PCB Congener #158	U	50	"		68			30		U
PCB Congener #159	U	50	"		U			30		U
PCB Congener #161	U	50	"		U			30		U
PCB Congener #162	U	50	"		U			30		U
PCB Congener #164	U	50	"		U			30		U
PCB Congener #165	U	50	"		U			30		U
PCB Congener #167	18	10	"		33			59.9	30	J, QM-4
PCB Congener #169	U	50	"		U			30		U
PCB Congener #170	85	50	"		150			57.6	30	J, QM-4
PCB Congener #171 and/or 173	U	50	"		U			30		U
PCB Congener #172	U	50	"		U			30		U



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**Duplicate (1204125-DUP1)**

**Source: E113804-17**

Prepared: 04/25/12 Analyzed: 08/07/12

PCB Congener #174	83	50	ng/kg		85			1.82	30	
PCB Congener #175	U	50	"		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	56	50	"		72			24.6	30	
PCB Congener #178	U	50	"		U				30	U
PCB Congener #179	U	50	"		U				30	U
PCB Congener #180 and/or 193	200	50	"		340			49.2	30	J, QM-4
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	82	50	"		150			58.5	30	J, QM-4
PCB Congener #184	U	50	"		U				30	U
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	190	50	"		370			66.3	30	J, QM-4
PCB Congener #188	U	50	"		U				30	U
PCB Congener #189	U	50	"		7.0				30	U
PCB Congener #190	U	50	"		U				30	U
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	U	50	"		71				30	U
PCB Congener #195	U	50	"		U				30	U
PCB Congener #196	U	50	"		U				30	U
PCB Congener #197 and/or 200	U	50	"		U				30	U
PCB Congener #198 and/or 199	120	50	"		150			23.5	30	
PCB Congener #201	U	50	"		U				30	U
PCB Congener #202	56	50	"		71			23.6	30	
PCB Congener #203	95	50	"		160			47.8	30	J, QM-4
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	U	50	"		U				30	U
PCB Congener #206	120	50	"		190			48.2	30	J, QM-4
PCB Congener #207	U	50	"		U				30	U
PCB Congener #208	60	50	"		83			32.6	30	J, QM-4
PCB Congener #209	110	100	"		160			39.1	30	J, QM-4



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**MRL Verification (1204125-PS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	88.315		ng/kg	199.40		44.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	104.47		"	199.40		52.4	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	158.74		"	199.40		79.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	103.87		"	199.40		52.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	158.86		"	199.40		79.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	73.878		"	199.40		37.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	201.71		"	199.40		101	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	69.452		"	199.40		34.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	60.499		"	199.40		30.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	176.09		"	199.40		88.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	87.956		"	199.40		44.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	86.481		"	199.40		43.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	81.077		"	199.40		40.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	72.921		"	199.40		36.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	73.420		"	199.40		36.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	156.75		"	199.40		78.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	146.96		"	398.80		36.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	66.939		"	199.40		33.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	87.039		"	199.40		43.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	186.94		"	199.40		93.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	110.57		"	199.40		55.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	142.47		"	199.40		71.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	102.55		"	199.40		51.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	192.40		"	199.40		96.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	146.86		"	199.40		73.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	216.23		"	199.40		108	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	96.530		"	195.41		49.4	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	148.75		"	193.42		76.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	203.27		"	181.46		112	40-125			
PCB Congener # 1	9.2	10	"	9.9701		92.0	30-170			MRL-4, Q-2, J
PCB Congener # 3	8.9	10	"	9.9701		89.2	30-170			MRL-4, Q-2, J
PCB Congener # 4	8.7	10	"	9.9701		86.8	30-170			MRL-4, Q-2, J
PCB Congener # 15	9.7	10	"	9.9701		96.8	30-170			MRL-4, Q-2, J
PCB Congener # 19	7.5	10	"	9.9701		75.4	30-170			MRL-4, Q-2, J
PCB Congener # 37	8.6	10	"	9.9701		85.8	30-170			MRL-4, Q-2, J



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204125 - E 1668**

**MRL Verification (1204125-PS1)**

Prepared: 04/25/12 Analyzed: 07/16/12

PCB Congener # 54	7.8	10	ng/kg	9.9701		78.2	30-170			MRL-4, Q-2, J
PCB Congener # 77	8.3	10	"	9.9701		83.0	30-170			MRL-4, Q-2, J
PCB Congener # 81	8.7	10	"	9.9701		87.0	30-170			MRL-4, Q-2, J
PCB Congener #104	6.5	10	"	9.9701		64.8	30-170			MRL-4, Q-2, J
PCB Congener #105	9.5	10	"	9.9701		95.0	30-170			MRL-4, Q-2, J
PCB Congener #114	6.6	10	"	9.9701		66.2	30-170			MRL-4, Q-2, J
PCB Congener #118	15	10	"	9.9701		154	30-170			MRL-4
PCB Congener #123	7.5	10	"	9.9701		74.8	30-170			MRL-4, Q-2, J
PCB Congener #126	7.4	10	"	9.9701		74.0	30-170			MRL-4, Q-2, J
PCB Congener #155	6.3	10	"	9.9701		63.2	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	15	10	"	19.940		75.8	30-170			MRL-4
PCB Congener #167	8.0	10	"	9.9701		80.2	30-170			MRL-4, Q-2, J
PCB Congener #169	10	50	"	9.9701		105	30-170			MRL-4, Q-2, J
PCB Congener #188	8.9	50	"	9.9701		89.0	30-170			MRL-4, Q-2, J
PCB Congener #189	8.2	10	"	9.9701		82.2	30-170			MRL-4, Q-2, J
PCB Congener #202	9.4	50	"	9.9701		94.0	30-170			MRL-4, Q-2, J
PCB Congener #205	7.9	10	"	9.9701		79.2	30-170			MRL-4, Q-2, J
PCB Congener #206	8.8	10	"	9.9701		88.2	30-170			MRL-4, Q-2, J
PCB Congener #208	6.3	10	"	9.9701		63.4	30-170			MRL-4, Q-2, J
PCB Congener #209	15	20	"	19.980		76.8	30-170			MRL-4, Q-2, J



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1201008 - E 3550 Tissue**

**Blank (1201008-BLK1)**

Prepared: 01/03/12 Analyzed: 01/04/12

**ASB E100**

% Lipids 0.0 %

**Duplicate (1201008-DUP1)**

Source: E113804-07

Prepared: 01/03/12 Analyzed: 01/04/12

**ASB E100**

% Lipids 0.90 % 0.90 0.00 20

**Batch 1201009 - E 3550 Tissue**

**Blank (1201009-BLK1)**

Prepared: 01/04/12 Analyzed: 01/05/12

**ASB E100**

% Lipids 0.0 %

**Duplicate (1201009-DUP1)**

Source: E113804-11

Prepared: 01/04/12 Analyzed: 01/05/12

**ASB E100**

% Lipids 0.90 % 1.2 28.6 20 QM-4



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D.A.R.T. Id: 11-0321

Project: 11-0342, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-4 Matrix Precision outside method control limits
- QS-5 Surrogate recovery is higher than established control limits

**E113804**

**US-EPA, Region 4, SESD**

<b>Client:</b> Superfund Emergency Response and Removal (302DC6)	<b>Project Number:</b> 11-0342
<b>Project:</b> Yadkin River Sediment and Fish Tissue Sa - KRHAME	<b>Acct # / Location:</b> 302DC6CB4F9LA00 Stanly NC

<b>Project Leader:</b> Rhame, Ken	<b>Date Due:</b> 10/18/11 (35 day TAT)
Received By: Barden, Herbert	Date Received: 09/13/11 09:53
Logged In By: Barden, Herbert	Date Logged In: 09/13/11 13:14

Samples Received at: <b>0.8°C</b>	Placed in Cooler after Ice Removed:	D.A.R.T. Project ID: <u>11-0321</u>
Custody Seals: Yes	Sample Containers Intact: Yes	Program/Activity: <u>RP</u>
Custody Seals Intact: Yes	Samples & COC Match: Yes	Site/Waterbody: <u>Yadkin River (R4-00124)</u>
COC Present: Yes	COC/Labels Agree: Yes	
Ice in Cooler: Yes	All Analyses on COC: Yes	

Analysis	Due	TAT	Expires	Comments
<b>E113804-01 11-369 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-02 11-370 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-03 11-371 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-04 11-372 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-05 11-373 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-06 11-374 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-07 11-375 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-08 11-376 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-09 11-377 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-10 11-378 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L



WORK ORDER

Printed: 9/13/2011 1:48:12PM

**E113804**

**US-EPA, Region 4, SESD**

<b>Client:</b> Superfund Emergency Response and Removal (302DC6)	<b>Project Number:</b> 11-0342
<b>Project:</b> Yadkin River Sediment and Fish Tissue Sa - KRHAME	<b>Acct # / Location:</b> 302DC6CB4F9LA00 Stanly NC

Analysis	Due	TAT	Expires	Comments
<b>E113804-11 11-379 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-12 11-380 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-13 11-381 / YAD-HRL-AC [ Tissue / Fish ] Sampled 08/23/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/22/12 12:00	from F2L
<b>E113804-14 11-358 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113804-15 11-359 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113804-16 11-360 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113804-17 11-361 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113804-18 11-362 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113804-19 11-363 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113804-20 11-364 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

November 4, 2012

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa  
Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-382	E113805-01	Fish	9/1/11 12:00	9/13/11 9:53
11-383	E113805-02	Fish	9/1/11 12:00	9/13/11 9:53
11-384	E113805-03	Fish	9/1/11 12:00	9/13/11 9:53
11-385	E113805-04	Fish	9/1/11 12:00	9/13/11 9:53
11-386	E113805-05	Fish	9/1/11 12:00	9/13/11 9:53
11-387	E113805-06	Fish	9/1/11 12:00	9/13/11 9:53
11-388	E113805-07	Fish	9/1/11 12:00	9/13/11 9:53
11-389	E113805-08	Fish	9/1/11 12:00	9/13/11 9:53
11-390	E113805-09	Fish	9/1/11 12:00	9/13/11 9:53
11-391	E113805-10	Fish	9/1/11 12:00	9/13/11 9:53
11-392	E113805-11	Fish	9/1/11 12:00	9/13/11 9:53
11-365	E113805-12	Fish	8/24/11 12:00	9/13/11 9:53
11-366	E113805-13	Fish	8/24/11 12:00	9/13/11 9:53
11-367	E113805-14	Fish	8/24/11 12:00	9/13/11 9:53
11-368	E113805-15	Fish	8/24/11 12:00	9/13/11 9:53



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- B-5 Qualitative evidence of contamination in the blank at a concentration less than the MDL.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.
- QL-1 Laboratory Control Spike Recovery less than method control limits
- QL-3 Laboratory Control Spike Precision outside method control limits
- QM-4 Matrix Precision outside method control limits

### ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-90-5	PCB Congener # 37	2.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	23	U, B-5	ng/kg	23	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	14		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
35693-99-3	PCB Congener # 52	26		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	21		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
52663-58-8	PCB Congener # 64	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
32598-10-0	PCB Congener # 66	15		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
32598-13-3	PCB Congener # 77	1.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	37		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	18		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	38		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
52663-61-3	PCB Congener # 92	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	18		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
32598-14-4	PCB Congener #105	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	18		ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
31508-00-6	PCB Congener #118	39	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
65510-44-3	PCB Congener #123	1.4	J, QL-3, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	72		ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	70		ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	5.7	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-72-6	PCB Congener #167	3.4	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 17:53	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-68-0	PCB Congener #187	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
2136-99-4	PCB Congener #202	50	U, J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
40186-72-9	PCB Congener #206	12	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
52663-77-1	PCB Congener #208	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/21/12 22:58	EPA 1668A
2051-24-3	PCB Congener #209	100	U, J, QL-3	ng/kg	100	4/27/12 11:00	8/21/12 22:58	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-382

Lab ID: E113805-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.30		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	13		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-90-5	PCB Congener # 37	3.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	34		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	21		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
35693-99-3	PCB Congener # 52	29		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	27		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
52663-58-8	PCB Congener # 64	12		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
32598-10-0	PCB Congener # 66	21		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
32598-13-3	PCB Congener # 77	1.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	33	U, B-5	ng/kg	33	4/27/12 11:00	8/13/12 18:57	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	19		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	35	U, B-5	ng/kg	35	4/27/12 11:00	8/13/12 18:57	EPA 1668A
52663-61-3	PCB Congener # 92	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	20		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
32598-14-4	PCB Congener #105	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	32		ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
31508-00-6	PCB Congener #118	30	U, J, B-2, QL-3	ng/kg	30	4/27/12 11:00	8/13/12 18:57	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
65510-44-3	PCB Congener #123	0.88	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	51		ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A





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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	3.3	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-72-6	PCB Congener #167	1.7	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 18:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-68-0	PCB Congener #187	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
2136-99-4	PCB Congener #202	50	U, J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
40186-72-9	PCB Congener #206	12	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
52663-77-1	PCB Congener #208	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 0:02	EPA 1668A
2051-24-3	PCB Congener #209	100	U, J, QL-3	ng/kg	100	4/27/12 11:00	8/22/12 0:02	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-383

Lab ID: E113805-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.10		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-384

Lab ID: E113805-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
2050-68-2	PCB Congener # 15	3.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	13		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	33		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
16606-02-3	PCB Congener # 31	23		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-384

Lab ID: E113805-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-90-5	PCB Congener # 37	7.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	27		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
36559-22-5	PCB Congener # 42	28		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	74		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
35693-99-3	PCB Congener # 52	120		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
41464-43-1	PCB Congener # 56	19		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	12		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	81		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
52663-58-8	PCB Congener # 64	48		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
32598-10-0	PCB Congener # 66	76		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-384

Lab ID: E113805-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
32598-13-3	PCB Congener # 77	5.0	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	130		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
52663-60-2	PCB Congener # 84	19		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	37		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	78		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	17		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	120		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
52663-61-3	PCB Congener # 92	33		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	73		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
32598-14-4	PCB Congener #105	33	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
70424-68-9	PCB Congener #107	11		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	130		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-384**

**Lab ID: E113805-03**

**Station ID: YAD-HRL-SC**

**Matrix: Fish**

**Date Collected: 9/1/11 12:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.9	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
31508-00-6	PCB Congener #118	120	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
65510-44-3	PCB Congener #123	3.0	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	200		ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	65		ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	130		ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	210		ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-384

Lab ID: E113805-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	6.0	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	16		ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-72-6	PCB Congener #167	9.1	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 20:01	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	110		ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-68-0	PCB Congener #187	87		ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-384**

**Lab ID: E113805-03**

**Station ID: YAD-HRL-SC**

**Matrix: Fish**

**Date Collected: 9/1/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
2136-99-4	PCB Congener #202	19	J, Q-2, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
40186-72-9	PCB Congener #206	47	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
52663-77-1	PCB Congener #208	25	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 1:05	EPA 1668A
2051-24-3	PCB Congener #209	40	J, Q-2, QL-3	ng/kg	100	4/27/12 11:00	8/22/12 1:05	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-384

Lab ID: E113805-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.10		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
2050-68-2	PCB Congener # 15	2.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	13		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	24		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
16606-02-3	PCB Congener # 31	17		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-90-5	PCB Congener # 37	6.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	16		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
36559-22-5	PCB Congener # 42	15		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	40		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	36		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
35693-99-3	PCB Congener # 52	47		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
41464-43-1	PCB Congener # 56	13		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	47		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
52663-58-8	PCB Congener # 64	22		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
32598-10-0	PCB Congener # 66	30		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
32598-13-3	PCB Congener # 77	2.8	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	53		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	14		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	31		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	54		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
52663-61-3	PCB Congener # 92	12		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	29		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
32598-14-4	PCB Congener #105	15	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	47		ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
31508-00-6	PCB Congener #118	50	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
65510-44-3	PCB Congener #123	1.1	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	80		ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	87		ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.3	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	6.6	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-72-6	PCB Congener #167	3.6	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 21:05	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-68-0	PCB Congener #187	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
2136-99-4	PCB Congener #202	8.8	J, Q-2, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
74472-53-0	PCB Congener #205	6.7	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
40186-72-9	PCB Congener #206	18	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
52663-77-1	PCB Congener #208	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 2:09	EPA 1668A
2051-24-3	PCB Congener #209	100	U, J, QL-3	ng/kg	100	4/27/12 11:00	8/22/12 2:09	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-385

Lab ID: E113805-04

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.10		%		10/13/11 11:03	10/14/11 11:55	ASB E100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
2050-68-2	PCB Congener # 15	7.1	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-78-9	PCB Congener # 16	21		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
37680-66-3	PCB Congener # 17	37		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	66		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-73-4	PCB Congener # 19	1.8	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	240		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	59		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-85-8	PCB Congener # 22	58		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
55712-37-3	PCB Congener # 25	15		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	35		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
16606-02-3	PCB Congener # 31	190		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-77-8	PCB Congener # 32	22		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-90-5	PCB Congener # 37	66		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	170		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
36559-22-5	PCB Congener # 42	110		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70362-46-8	PCB Congener # 43	18		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	410		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	30		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70362-47-9	PCB Congener # 48	79		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	310		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	21		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
35693-99-3	PCB Congener # 52	330		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
41464-43-1	PCB Congener # 56	160		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	42		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
33025-41-1	PCB Congener # 60	110		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	590		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
74472-34-7	PCB Congener # 63	18		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
52663-58-8	PCB Congener # 64	190		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
32598-10-0	PCB Congener # 66	380		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
73575-53-8	PCB Congener # 67	16		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
32598-13-3	PCB Congener # 77	30		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70362-50-4	PCB Congener # 81	1.6	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
52663-62-4	PCB Congener # 82	29		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	170		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
52663-60-2	PCB Congener # 84	27		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	63		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	130		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	29		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	160		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
52663-61-3	PCB Congener # 92	36		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	85		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
32598-14-4	PCB Congener #105	85	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
70424-68-9	PCB Congener #107	17		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	160		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.5	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
31508-00-6	PCB Congener #118	180	J, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
65510-44-3	PCB Congener #123	5.2	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	140		ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	86		ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	140		ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.9	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	12		ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-72-6	PCB Congener #167	6.6	J, Q-2	ng/kg	10	4/27/12 11:00	8/13/12 22:08	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	70		ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-68-0	PCB Congener #187	56		ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
2136-99-4	PCB Congener #202	14	J, Q-2, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
40186-72-9	PCB Congener #206	34	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
52663-77-1	PCB Congener #208	15	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 3:13	EPA 1668A
2051-24-3	PCB Congener #209	30	J, Q-2, QL-3	ng/kg	100	4/27/12 11:00	8/22/12 3:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-386

Lab ID: E113805-05

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.10		%		10/13/11 11:03	10/14/11 11:55	ASB E100





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
34883-43-7	PCB Congener # 8	16		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
2050-68-2	PCB Congener # 15	16		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-78-9	PCB Congener # 16	16		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
37680-66-3	PCB Congener # 17	37		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	54		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-73-4	PCB Congener # 19	3.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	270		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	76		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-85-8	PCB Congener # 22	66		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
55712-37-3	PCB Congener # 25	18		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	45		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
16606-02-3	PCB Congener # 31	240		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-77-8	PCB Congener # 32	25		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-90-5	PCB Congener # 37	79		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	140		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
36559-22-5	PCB Congener # 42	110		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70362-46-8	PCB Congener # 43	13		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	300		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	21		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70362-47-9	PCB Congener # 48	69		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	250		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	16		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
35693-99-3	PCB Congener # 52	230		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
41464-43-1	PCB Congener # 56	160		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	29		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
33025-41-1	PCB Congener # 60	110		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	590		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
74472-34-7	PCB Congener # 63	18		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
52663-58-8	PCB Congener # 64	160		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
32598-10-0	PCB Congener # 66	380		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
73575-53-8	PCB Congener # 67	16		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
32598-13-3	PCB Congener # 77	36		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
52663-62-4	PCB Congener # 82	22		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	180		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
52663-60-2	PCB Congener # 84	19		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	59		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	140		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	24		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	190		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
52663-61-3	PCB Congener # 92	38		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	75		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
32598-14-4	PCB Congener #105	91	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
70424-68-9	PCB Congener #107	20		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	150		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.8	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
31508-00-6	PCB Congener #118	210	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
65510-44-3	PCB Congener #123	6.2	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	150		ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	71		ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	150		ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.1	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	14		ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-72-6	PCB Congener #167	7.0	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 12:07	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	67		ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-68-0	PCB Congener #187	69		ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
2136-99-4	PCB Congener #202	11	J, Q-2, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
40186-72-9	PCB Congener #206	31	J, QL-3, Q-2	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
52663-77-1	PCB Congener #208	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/22/12 4:17	EPA 1668A
2051-24-3	PCB Congener #209	29	J, Q-2, QL-3	ng/kg	100	4/27/12 11:00	8/22/12 4:17	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-387

Lab ID: E113805-06

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.10		%		10/13/11 11:03	10/14/11 11:55	ASB E100





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-388

Lab ID: E113805-07

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
2050-68-2	PCB Congener # 15	2.0	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	11		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	37		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
16606-02-3	PCB Congener # 31	20		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-388

Lab ID: E113805-07

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-90-5	PCB Congener # 37	5.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	29		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
36559-22-5	PCB Congener # 42	25		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	120		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70362-47-9	PCB Congener # 48	14		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	80		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
35693-99-3	PCB Congener # 52	110		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
41464-43-1	PCB Congener # 56	22		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
33025-41-1	PCB Congener # 60	14		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	140		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
52663-58-8	PCB Congener # 64	43		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
32598-10-0	PCB Congener # 66	110		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-388

Lab ID: E113805-07

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
32598-13-3	PCB Congener # 77	5.4	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
52663-62-4	PCB Congener # 82	12		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	260		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
52663-60-2	PCB Congener # 84	16		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	64		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	120		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	28		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	250		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
52663-61-3	PCB Congener # 92	54		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	87		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
32598-14-4	PCB Congener #105	67	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
70424-68-9	PCB Congener #107	26		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	190		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-388

Lab ID: E113805-07

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.1	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
31508-00-6	PCB Congener #118	240	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
65510-44-3	PCB Congener #123	5.8	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	54		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	430		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	98		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
51908-16-8	PCB Congener #146	100		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	210		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	450		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-388**

**Lab ID: E113805-07**

**Station ID: YAD-HRL-SC**

**Matrix: Fish**

**Date Collected: 9/1/11 12:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	8.7	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	33		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-72-6	PCB Congener #167	16		ng/kg	10	4/27/12 11:00	8/14/12 13:11	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
35065-30-6	PCB Congener #170	81		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	180		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	60		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-68-0	PCB Congener #187	150		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-388

Lab ID: E113805-07

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
2136-99-4	PCB Congener #202	29	J, Q-2, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-76-0	PCB Congener #203	66		ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
40186-72-9	PCB Congener #206	67	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
52663-77-1	PCB Congener #208	32	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 16:41	EPA 1668A
2051-24-3	PCB Congener #209	67	J, Q-2, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 16:41	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-388

Lab ID: E113805-07

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.20		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-389

Lab ID: E113805-08

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	22		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
16606-02-3	PCB Congener # 31	11		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-389

Lab ID: E113805-08

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-90-5	PCB Congener # 37	2.9	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
36559-22-5	PCB Congener # 42	14		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	74		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	47		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
35693-99-3	PCB Congener # 52	76		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
41464-43-1	PCB Congener # 56	12		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	71		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
52663-58-8	PCB Congener # 64	23		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
32598-10-0	PCB Congener # 66	45		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-389

Lab ID: E113805-08

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
32598-13-3	PCB Congener # 77	3.7	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	150		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	32		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	67		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	16		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	150		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
52663-61-3	PCB Congener # 92	32		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	45		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
32598-14-4	PCB Congener #105	35	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
70424-68-9	PCB Congener #107	15		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	99		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-389**

**Lab ID: E113805-08**

**Station ID: YAD-HRL-SC**

**Matrix: Fish**

**Date Collected: 9/1/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	10	U, J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
31508-00-6	PCB Congener #118	140	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
65510-44-3	PCB Congener #123	3.1	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	250		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	54		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
51908-16-8	PCB Congener #146	57		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	280		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-389

Lab ID: E113805-08

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	6.8	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	19		ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-72-6	PCB Congener #167	9.8	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 14:14	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-68-0	PCB Congener #187	99		ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
39635-31-9	PCB Congener #189	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-389**

**Lab ID: E113805-08**

**Station ID: YAD-HRL-SC**

**Matrix: Fish**

**Date Collected: 9/1/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
2136-99-4	PCB Congener #202	17	J, QL-3, Q-2, QL-1	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
74472-53-0	PCB Congener #205	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
40186-72-9	PCB Congener #206	39	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
52663-77-1	PCB Congener #208	15	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 17:45	EPA 1668A
2051-24-3	PCB Congener #209	33	J, Q-2, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 17:45	EPA 1668A



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D.A.R.T. Id: 11-0321

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## Physical Properties

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** 11-389

**Lab ID:** E113805-08

**Station ID:** YAD-HRL-SC

**Matrix:** Fish

**Date Collected:** 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.20		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
2050-68-2	PCB Congener # 15	4.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	87		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-90-5	PCB Congener # 37	8.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	71		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
36559-22-5	PCB Congener # 42	67		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	290		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	19		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70362-47-9	PCB Congener # 48	20		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	210		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	15		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
35693-99-3	PCB Congener # 52	310		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
41464-43-1	PCB Congener # 56	47		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	30		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
33025-41-1	PCB Congener # 60	26		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	320		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
52663-58-8	PCB Congener # 64	130		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
32598-10-0	PCB Congener # 66	260		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
32598-13-3	PCB Congener # 77	12		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
52663-62-4	PCB Congener # 82	28		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	530		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
52663-60-2	PCB Congener # 84	58		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	300		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	71		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	510		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
52663-61-3	PCB Congener # 92	120		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	220		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
60145-21-3	PCB Congener #103	10		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
32598-14-4	PCB Congener #105	160	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
70424-68-9	PCB Congener #107	58		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	420		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A





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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	8.6	J, Q-2, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
31508-00-6	PCB Congener #118	570	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
65510-44-3	PCB Congener #123	13	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	160		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1200		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-66-8	PCB Congener #130	66		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38380-05-1	PCB Congener #132	110		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	300		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52712-04-6	PCB Congener #141	110		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
51908-16-8	PCB Congener #146	260		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	580		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1300		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	18	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	89		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
74472-42-7	PCB Congener #158	98		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-72-6	PCB Congener #167	43		ng/kg	10	4/27/12 11:00	8/14/12 15:18	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	62		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
38411-25-5	PCB Congener #174	110		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-70-4	PCB Congener #177	86		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-67-9	PCB Congener #178	80		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-64-6	PCB Congener #179	50		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	440		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	170		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-68-0	PCB Congener #187	450		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
39635-31-9	PCB Congener #189	9.5	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
35694-08-7	PCB Congener #194	96		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-78-2	PCB Congener #195	55		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	210		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
2136-99-4	PCB Congener #202	87	J, QL-3, QL-1	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-76-0	PCB Congener #203	230		ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
74472-53-0	PCB Congener #205	7.8	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
40186-72-9	PCB Congener #206	190	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
52663-77-1	PCB Congener #208	94	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 18:48	EPA 1668A
2051-24-3	PCB Congener #209	250	J, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 18:48	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-390

Lab ID: E113805-09

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.50		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-391

Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
2050-68-2	PCB Congener # 15	3.0	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	19		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	76		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-85-8	PCB Congener # 22	12		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
16606-02-3	PCB Congener # 31	42		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-391

Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-90-5	PCB Congener # 37	6.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	53		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
36559-22-5	PCB Congener # 42	54		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	290		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	12		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70362-47-9	PCB Congener # 48	17		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	180		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
35693-99-3	PCB Congener # 52	290		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	26		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
33025-41-1	PCB Congener # 60	24		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	300		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
52663-58-8	PCB Congener # 64	110		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
32598-10-0	PCB Congener # 66	250		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A



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### PCB Congeners

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Sample ID: 11-391

Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
32598-13-3	PCB Congener # 77	9.7	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
52663-62-4	PCB Congener # 82	35		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	740		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
52663-60-2	PCB Congener # 84	50		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	160		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	330		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	86		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	660		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
52663-61-3	PCB Congener # 92	160		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	240		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
60145-21-3	PCB Congener #103	10		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
32598-14-4	PCB Congener #105	190	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
70424-68-9	PCB Congener #107	68		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	16		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	520		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A





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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-391

Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	11	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
31508-00-6	PCB Congener #118	700	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
65510-44-3	PCB Congener #123	13	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	160		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1400		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-66-8	PCB Congener #130	67		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
38380-05-1	PCB Congener #132	120		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	340		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52712-04-6	PCB Congener #141	140		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
51908-16-8	PCB Congener #146	310		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	650		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1600		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A





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### PCB Congeners

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Sample ID: 11-391

Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	33	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	110		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
74472-42-7	PCB Congener #158	120		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-45-0	PCB Congener #164	57		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-72-6	PCB Congener #167	60		ng/kg	10	4/27/12 11:00	8/14/12 16:22	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
35065-30-6	PCB Congener #170	230		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	87		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-74-8	PCB Congener #172	71		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
38411-25-5	PCB Congener #174	140		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-67-9	PCB Congener #178	99		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	790		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	190		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-68-0	PCB Congener #187	650		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
39635-31-9	PCB Congener #189	17	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
41411-64-7	PCB Congener #190	63		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A



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Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
35694-08-7	PCB Congener #194	150		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-78-2	PCB Congener #195	75		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
42740-50-1	PCB Congener #196	56		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	300		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
2136-99-4	PCB Congener #202	120	J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-76-0	PCB Congener #203	360		ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
74472-53-0	PCB Congener #205	14	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
40186-72-9	PCB Congener #206	280	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
52663-77-1	PCB Congener #208	120	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 19:52	EPA 1668A
2051-24-3	PCB Congener #209	310	J, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 19:52	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-391

Lab ID: E113805-10

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.50		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
13029-08-8	PCB Congener # 4	3.6	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
2050-68-2	PCB Congener # 15	6.1	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	160		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
16606-02-3	PCB Congener # 31	82	J, QM-4	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-90-5	PCB Congener # 37	14		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	140		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
36559-22-5	PCB Congener # 42	150		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70362-46-8	PCB Congener # 43	16		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	760		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	28		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70362-47-9	PCB Congener # 48	38		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	520		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	17		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
35693-99-3	PCB Congener # 52	840		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
41464-43-1	PCB Congener # 56	99		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	68		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
33025-41-1	PCB Congener # 60	63		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	770		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
74472-34-7	PCB Congener # 63	33		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
52663-58-8	PCB Congener # 64	290		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
32598-10-0	PCB Congener # 66	620		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
73575-52-7	PCB Congener # 68	16		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	16		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
32598-13-3	PCB Congener # 77	29		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
52663-62-4	PCB Congener # 82	83		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1800		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
52663-60-2	PCB Congener # 84	120		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	420		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	880		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	200		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1700		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
52663-61-3	PCB Congener # 92	390		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	580		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
60145-21-3	PCB Congener #103	26		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
32598-14-4	PCB Congener #105	480	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
70424-68-9	PCB Congener #107	170		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	35		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1500		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	31	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
31508-00-6	PCB Congener #118	1700	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
68194-12-7	PCB Congener #120	22		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
65510-44-3	PCB Congener #123	40	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	420		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3400		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-66-8	PCB Congener #130	160		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38380-05-1	PCB Congener #132	360		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
35694-04-3	PCB Congener #133	73		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	980	J, QM-4	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38411-22-2	PCB Congener #136	88		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	63		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52712-04-6	PCB Congener #141	310		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
68194-14-9	PCB Congener #144	66		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
51908-16-8	PCB Congener #146	800		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1700		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3900		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	84	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	260		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
74472-42-7	PCB Congener #158	310		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-45-0	PCB Congener #164	150		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-72-6	PCB Congener #167	140		ng/kg	10	4/27/12 11:00	8/14/12 17:26	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
35065-30-6	PCB Congener #170	580		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	200		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-74-8	PCB Congener #172	150		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
38411-25-5	PCB Congener #174	320		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-70-4	PCB Congener #177	220		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-67-9	PCB Congener #178	260		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-64-6	PCB Congener #179	130		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1700		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	530		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-48-3	PCB Congener #184	100		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-68-0	PCB Congener #187	1400		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
39635-31-9	PCB Congener #189	33	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
41411-64-7	PCB Congener #190	140		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
35694-08-7	PCB Congener #194	340		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-78-2	PCB Congener #195	150		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
42740-50-1	PCB Congener #196	120	J, QM-4	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	550	J, QM-4	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
40186-71-8	PCB Congener #201	90		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
2136-99-4	PCB Congener #202	270	J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-76-0	PCB Congener #203	720		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
74472-53-0	PCB Congener #205	28	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
40186-72-9	PCB Congener #206	650	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-79-3	PCB Congener #207	59		ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
52663-77-1	PCB Congener #208	330	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 20:56	EPA 1668A
2051-24-3	PCB Congener #209	710	J, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 20:56	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-392

Lab ID: E113805-11

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/1/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
13029-08-8	PCB Congener # 4	2.4	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
37680-66-3	PCB Congener # 17	13		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	20		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	47		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	11		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
16606-02-3	PCB Congener # 31	35		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-90-5	PCB Congener # 37	6.7	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	62		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
36559-22-5	PCB Congener # 42	45		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	210		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	13		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70362-47-9	PCB Congener # 48	17		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	150		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	13		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
35693-99-3	PCB Congener # 52	270		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
41464-43-1	PCB Congener # 56	30		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	23		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
33025-41-1	PCB Congener # 60	22		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	240		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
52663-58-8	PCB Congener # 64	100		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
32598-10-0	PCB Congener # 66	180		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
32598-13-3	PCB Congener # 77	8.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
52663-62-4	PCB Congener # 82	39		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	570		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
52663-60-2	PCB Congener # 84	53		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	330		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	68		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	590		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
52663-61-3	PCB Congener # 92	130		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	260		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
32598-14-4	PCB Congener #105	170	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
70424-68-9	PCB Congener #107	55		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	500		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
31508-00-6	PCB Congener #118	580	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
65510-44-3	PCB Congener #123	13	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1200		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-66-8	PCB Congener #130	53		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
38380-05-1	PCB Congener #132	120		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	320		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52712-04-6	PCB Congener #141	140		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
51908-16-8	PCB Congener #146	230		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	600		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1300		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	28	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	95		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
74472-42-7	PCB Congener #158	110		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-45-0	PCB Congener #164	53		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-72-6	PCB Congener #167	53		ng/kg	10	4/27/12 11:00	8/14/12 18:29	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
35065-30-6	PCB Congener #170	240		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	78		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-74-8	PCB Congener #172	61		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
38411-25-5	PCB Congener #174	140		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-67-9	PCB Congener #178	100		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	680		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	170		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-68-0	PCB Congener #187	520		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
39635-31-9	PCB Congener #189	14	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
41411-64-7	PCB Congener #190	68		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
35694-08-7	PCB Congener #194	150		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-78-2	PCB Congener #195	64		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
42740-50-1	PCB Congener #196	58		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	280		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
2136-99-4	PCB Congener #202	120	J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-76-0	PCB Congener #203	300		ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
74472-53-0	PCB Congener #205	9.8	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
40186-72-9	PCB Congener #206	310	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
52663-77-1	PCB Congener #208	130	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 22:00	EPA 1668A
2051-24-3	PCB Congener #209	290	J, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 22:00	EPA 1668A





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-365

Lab ID: E113805-12

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.20		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-366

Lab ID: E113805-13

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
13029-08-8	PCB Congener # 4	4.6	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
2050-68-2	PCB Congener # 15	3.8	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	53		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	150		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
16606-02-3	PCB Congener # 31	91		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-366

Lab ID: E113805-13

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-90-5	PCB Congener # 37	12		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	160		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
36559-22-5	PCB Congener # 42	140		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70362-46-8	PCB Congener # 43	15		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	510		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	37		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70362-47-9	PCB Congener # 48	46		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	410		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	31		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
35693-99-3	PCB Congener # 52	690		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
41464-43-1	PCB Congener # 56	89		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70424-67-8	PCB Congener # 57	15		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	43		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
33025-41-1	PCB Congener # 60	47		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	610		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
74472-34-7	PCB Congener # 63	21		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
52663-58-8	PCB Congener # 64	240		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
32598-10-0	PCB Congener # 66	440		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
73575-52-7	PCB Congener # 68	11		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-366

Lab ID: E113805-13

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
32598-13-3	PCB Congener # 77	22		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
52663-62-4	PCB Congener # 82	99		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1500		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
52663-60-2	PCB Congener # 84	180		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	340		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	850		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	210		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1400		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
52663-61-3	PCB Congener # 92	300		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	690		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
60145-21-3	PCB Congener #103	25		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
32598-14-4	PCB Congener #105	400	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
70424-68-9	PCB Congener #107	140		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	36		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1300		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-366

Lab ID: E113805-13

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	23	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
31508-00-6	PCB Congener #118	1300	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
68194-12-7	PCB Congener #120	16		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
65510-44-3	PCB Congener #123	32	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	360		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2800		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-66-8	PCB Congener #130	150		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38380-05-1	PCB Congener #132	420		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
35694-04-3	PCB Congener #133	55		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	860		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38411-22-2	PCB Congener #136	160		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
35694-06-5	PCB Congener #137	98		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	52		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52712-04-6	PCB Congener #141	330		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
68194-14-9	PCB Congener #144	66		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
51908-16-8	PCB Congener #146	600		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1600		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3000		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-366

Lab ID: E113805-13

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	74	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	220		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
74472-42-7	PCB Congener #158	250		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-72-6	PCB Congener #167	110		ng/kg	10	4/27/12 11:00	8/14/12 19:33	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
35065-30-6	PCB Congener #170	520		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	180		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-74-8	PCB Congener #172	130		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
38411-25-5	PCB Congener #174	380		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-65-7	PCB Congener #176	59		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-70-4	PCB Congener #177	230		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-67-9	PCB Congener #178	210		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-64-6	PCB Congener #179	240		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1400		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	480		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-48-3	PCB Congener #184	82		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-68-0	PCB Congener #187	1100		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
39635-31-9	PCB Congener #189	31	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
41411-64-7	PCB Congener #190	110		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-366**

**Lab ID: E113805-13**

**Station ID: YAD-HRL-UR**

**Matrix: Fish**

**Date Collected: 8/24/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
35694-08-7	PCB Congener #194	270		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-78-2	PCB Congener #195	130		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
42740-50-1	PCB Congener #196	140		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	55		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	590		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
40186-71-8	PCB Congener #201	100		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
2136-99-4	PCB Congener #202	330	J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-76-0	PCB Congener #203	670		ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
74472-53-0	PCB Congener #205	22	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
40186-72-9	PCB Congener #206	640	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
52663-77-1	PCB Congener #208	410	J, QL-3	ng/kg	50	4/27/12 11:00	8/27/12 23:03	EPA 1668A
2051-24-3	PCB Congener #209	700	J, QL-3	ng/kg	100	4/27/12 11:00	8/27/12 23:03	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-366

Lab ID: E113805-13

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.4		%		10/13/11 11:03	10/14/11 11:55	ASB E100





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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
13029-08-8	PCB Congener # 4	5.5	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
2050-68-2	PCB Congener # 15	4.2	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	65		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	210		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
16606-02-3	PCB Congener # 31	130		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-90-5	PCB Congener # 37	15		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	190		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
36559-22-5	PCB Congener # 42	170		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70362-46-8	PCB Congener # 43	21		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	640		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	55		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
41464-47-5	PCB Congener # 46	13		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70362-47-9	PCB Congener # 48	57		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	540		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	47		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
35693-99-3	PCB Congener # 52	670		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
41464-43-1	PCB Congener # 56	100		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70424-67-8	PCB Congener # 57	18		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	73		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
33025-41-1	PCB Congener # 60	51		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	680		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
74472-34-7	PCB Congener # 63	23		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
52663-58-8	PCB Congener # 64	340		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
32598-10-0	PCB Congener # 66	500		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
32598-13-3	PCB Congener # 77	23		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
52663-62-4	PCB Congener # 82	100		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1100		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
52663-60-2	PCB Congener # 84	180		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	250		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	800		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	210		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1400		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
52663-61-3	PCB Congener # 92	280		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	640		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
60145-21-3	PCB Congener #103	25		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
32598-14-4	PCB Congener #105	340	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
70424-68-9	PCB Congener #107	110		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	32		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1200		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	20	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
31508-00-6	PCB Congener #118	1100	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
68194-12-7	PCB Congener #120	15		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
65510-44-3	PCB Congener #123	28	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	310		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2400		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-66-8	PCB Congener #130	120		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38380-05-1	PCB Congener #132	420		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	840		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38411-22-2	PCB Congener #136	140		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
35694-06-5	PCB Congener #137	94		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52712-04-6	PCB Congener #141	300		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
68194-14-9	PCB Congener #144	73		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
51908-16-8	PCB Congener #146	480		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1400		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2500		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	51	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	170		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
74472-42-7	PCB Congener #158	220		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-72-6	PCB Congener #167	92		ng/kg	10	4/27/12 11:00	8/14/12 20:37	EPA 1668A
32774-16-6	PCB Congener #169	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
35065-30-6	PCB Congener #170	430		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	160		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-74-8	PCB Congener #172	100		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
38411-25-5	PCB Congener #174	320		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-67-9	PCB Congener #178	200		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-64-6	PCB Congener #179	200		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1200		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	350		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-48-3	PCB Congener #184	69		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-68-0	PCB Congener #187	950		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74487-85-7	PCB Congener #188	50	U, J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
39635-31-9	PCB Congener #189	22	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
41411-64-7	PCB Congener #190	82		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
35694-08-7	PCB Congener #194	230		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
42740-50-1	PCB Congener #196	97		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	440		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
40186-71-8	PCB Congener #201	73		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
2136-99-4	PCB Congener #202	230	J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-76-0	PCB Congener #203	490		ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
40186-72-9	PCB Congener #206	470	J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
52663-77-1	PCB Congener #208	350	J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 0:07	EPA 1668A
2051-24-3	PCB Congener #209	550	J, QL-3	ng/kg	100	4/27/12 11:00	8/28/12 0:07	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-367

Lab ID: E113805-14

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		10/13/11 11:03	10/14/11 11:55	ASB E100





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
13029-08-8	PCB Congener # 4	4.9	J, Q-2	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	12		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	60		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
16606-02-3	PCB Congener # 31	17		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	22		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
36559-22-5	PCB Congener # 42	60		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	290		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	11		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70362-47-9	PCB Congener # 48	14		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	220		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
35693-99-3	PCB Congener # 52	130		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	22		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
33025-41-1	PCB Congener # 60	40		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	210		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
74472-34-7	PCB Congener # 63	15		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
52663-58-8	PCB Congener # 64	140		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
32598-10-0	PCB Congener # 66	320		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
32598-13-3	PCB Congener # 77	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
52663-62-4	PCB Congener # 82	34		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2000		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
52663-60-2	PCB Congener # 84	30		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	460		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	450		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	580		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
52663-61-3	PCB Congener # 92	270		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	180		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
32598-14-4	PCB Congener #105	800	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
70424-68-9	PCB Congener #107	200		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	12		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	880		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	59	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
31508-00-6	PCB Congener #118	3200	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
68194-12-7	PCB Congener #120	32		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
65510-44-3	PCB Congener #123	66	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	1200		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	8500		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-66-8	PCB Congener #130	330		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
38380-05-1	PCB Congener #132	230		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
35694-04-3	PCB Congener #133	120		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	690		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
35694-06-5	PCB Congener #137	480		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	89		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52712-04-6	PCB Congener #141	790		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
68194-14-9	PCB Congener #144	59		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
51908-16-8	PCB Congener #146	1800		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1200		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	11000		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	96	J, QL-3	ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	990		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
74472-42-7	PCB Congener #158	950		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-45-0	PCB Congener #164	330		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-72-6	PCB Congener #167	630		ng/kg	10	4/27/12 11:00	8/14/12 21:40	EPA 1668A
32774-16-6	PCB Congener #169	23	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
35065-30-6	PCB Congener #170	3100		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	730		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-74-8	PCB Congener #172	660		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
38411-25-5	PCB Congener #174	850		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
40186-70-7	PCB Congener #175	91		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-70-4	PCB Congener #177	490		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-67-9	PCB Congener #178	460		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-64-6	PCB Congener #179	58		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	8600		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	2000		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-48-3	PCB Congener #184	200		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-68-0	PCB Congener #187	3900		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74487-85-7	PCB Congener #188	6.3	J, Q-2, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
39635-31-9	PCB Congener #189	170	J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
41411-64-7	PCB Congener #190	740		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	130		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
35694-08-7	PCB Congener #194	2200		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-78-2	PCB Congener #195	920		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
42740-50-1	PCB Congener #196	770		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	110		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	4100		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
40186-71-8	PCB Congener #201	270		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
2136-99-4	PCB Congener #202	680	J, QL-1, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-76-0	PCB Congener #203	5600		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
74472-53-0	PCB Congener #205	170	J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
40186-72-9	PCB Congener #206	4200	J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-79-3	PCB Congener #207	330		ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
52663-77-1	PCB Congener #208	2000	J, QL-3	ng/kg	50	4/27/12 11:00	8/28/12 1:11	EPA 1668A
2051-24-3	PCB Congener #209	3600	J, QL-3	ng/kg	100	4/27/12 11:00	8/28/12 1:11	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-368

Lab ID: E113805-15

Station ID: YAD-HRL-UR

Matrix: Fish

Date Collected: 8/24/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.20		%		10/13/11 11:03	10/14/11 11:55	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Blank (1204143-BLK1)**

Prepared: 04/27/12 Analyzed: 08/13/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	93.647		ng/kg	200.40		46.7	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	99.579		"	200.40		49.7	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	134.73		"	200.40		67.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	111.58		"	200.40		55.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	118.72		"	200.40		59.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	89.339		"	200.40		44.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	150.06		"	200.40		74.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	96.874		"	200.40		48.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	51.483		"	200.40		25.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	164.37		"	200.40		82.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	104.91		"	200.40		52.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.64		"	200.40		50.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	104.61		"	200.40		52.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	68.918		"	200.40		34.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	88.357		"	200.40		44.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	139.06		"	200.40		69.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	194.31		"	400.80		48.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	94.910		"	200.40		47.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	106.11		"	200.40		52.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	292.08		"	200.40		146	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	115.73		"	200.40		57.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	234.77		"	200.40		117	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	169.34		"	200.40		84.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	120.84		"	200.40		60.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	197.80		"	200.40		98.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	128.36		"	200.40		64.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	115.71		"	196.39		58.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	156.07		"	194.39		80.3	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	207.23		"	182.36		114	30-135			
PCB Congener # 1	U	10	"							U
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Blank (1204143-BLK1)**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	U	10	"							U
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	U	10	"							U
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	U	10	"							U
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	U	10	"							U
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	U	10	"							U
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U
PCB Congener # 58	U	10	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Blank (1204143-BLK1)**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener # 59 and/or 62,75	U	10	ng/kg							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	U	10	"							U
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	U	10	"							U
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	2.2	10	"							B-3, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	U	10	"							U
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	6.7	10	"							B-4, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Blank (1204143-BLK1)**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	50	"							U
PCB Congener #129 and/or 138,160,163	U	50	"							U
PCB Congener #130	U	50	"							U
PCB Congener #131	U	50	"							U
PCB Congener #132	U	50	"							U
PCB Congener #133	U	50	"							U
PCB Congener #134 and/or 143	U	50	"							U
PCB Congener #135 and/or 151,154	U	50	"							U
PCB Congener #136	U	50	"							U
PCB Congener #137	U	50	"							U
PCB Congener #139 and/or 140	U	50	"							U
PCB Congener #141	U	50	"							U
PCB Congener #142	U	50	"							U
PCB Congener #144	U	50	"							U
PCB Congener #145	U	50	"							U
PCB Congener #146	U	50	"							U
PCB Congener #147 and/or 149	U	50	"							U
PCB Congener #148	U	50	"							U
PCB Congener #150	U	50	"							U
PCB Congener #152	U	50	"							U
PCB Congener #153 and/or 168	U	50	"							U
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	50	"							U
PCB Congener #159	U	50	"							U
PCB Congener #161	U	50	"							U
PCB Congener #162	U	50	"							U
PCB Congener #164	U	50	"							U
PCB Congener #165	U	50	"							U
PCB Congener #167	U	10	"							U
PCB Congener #169	U	50	"							U
PCB Congener #170	U	50	"							U
PCB Congener #171 and/or 173	U	50	"							U
PCB Congener #172	U	50	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Blank (1204143-BLK1)**

Prepared: 04/27/12 Analyzed: 08/21/12

PCB Congener #174	U	50	ng/kg							U
PCB Congener #175	U	50	"							U
PCB Congener #176	U	50	"							U
PCB Congener #177	U	50	"							U
PCB Congener #178	U	50	"							U
PCB Congener #179	U	50	"							U
PCB Congener #180 and/or 193	U	50	"							U
PCB Congener #181	U	50	"							U
PCB Congener #182	U	50	"							U
PCB Congener #183 and/or 185	U	50	"							U
PCB Congener #184	U	50	"							U
PCB Congener #186	U	50	"							U
PCB Congener #187	U	50	"							U
PCB Congener #188	U	50	"							U
PCB Congener #189	U	50	"							U
PCB Congener #190	U	50	"							U
PCB Congener #191	U	50	"							U
PCB Congener #192	U	50	"							U
PCB Congener #194	U	50	"							U
PCB Congener #195	U	50	"							U
PCB Congener #196	U	50	"							U
PCB Congener #197 and/or 200	U	50	"							U
PCB Congener #198 and/or 199	U	50	"							U
PCB Congener #201	U	50	"							U
PCB Congener #202	U	50	"							U
PCB Congener #203	U	50	"							U
PCB Congener #204	U	50	"							U
PCB Congener #205	U	50	"							U
PCB Congener #206	U	50	"							U
PCB Congener #207	U	50	"							U
PCB Congener #208	U	50	"							U
PCB Congener #209	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

LCS (1204143-BS1)

Prepared: 04/27/12 Analyzed: 08/13/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	89.178		ng/kg	200.40		44.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	90.401		"	200.40		45.1	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	128.14		"	200.40		63.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	105.67		"	200.40		52.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	121.86		"	200.40		60.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	70.882		"	200.40		35.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	112.95		"	200.40		56.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	68.457		"	200.40		34.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	61.182		"	200.40		30.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	103.63		"	200.40		51.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	71.723		"	200.40		35.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	67.936		"	200.40		33.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	68.116		"	200.40		34.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	70.341		"	200.40		35.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	62.305		"	200.40		31.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	90.060		"	200.40		44.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	139.32		"	400.80		34.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	62.645		"	200.40		31.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	66.132		"	200.40		33.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	151.60		"	200.40		75.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	93.487		"	200.40		46.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	150.70		"	200.40		75.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	75.631		"	200.40		37.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	165.45		"	200.40		82.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	93.026		"	200.40		46.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	177.86		"	200.40		88.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	104.65		"	196.39		53.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	135.43		"	194.39		69.7	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	176.83		"	182.36		97.0	40-125			
PCB Congener # 1	91	10	"	100.20		90.3	50-150			
PCB Congener # 3	91	10	"	100.20		90.7	50-150			
PCB Congener # 4	90	10	"	100.20		89.8	50-150			
PCB Congener # 15	96	10	"	100.20		96.2	50-150			
PCB Congener # 19	84	10	"	100.20		83.7	50-150			
PCB Congener # 37	89	10	"	100.20		88.6	50-150			
PCB Congener # 54	85	10	"	100.20		84.5	50-150			
PCB Congener # 77	83	10	"	100.20		83.1	50-150			
PCB Congener # 81	81	10	"	100.20		80.5	50-150			



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**LCS (1204143-BS1)**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener #104	76	10	ng/kg	100.20		75.5	50-150			
PCB Congener #105	86	10	"	100.20		86.2	50-150			
PCB Congener #114	88	10	"	100.20		87.5	50-150			
PCB Congener #118	97	10	"	100.20		97.1	50-150			
PCB Congener #123	85	10	"	100.20		84.7	50-150			
PCB Congener #126	75	10	"	100.20		75.1	50-150			
PCB Congener #155	87	10	"	100.20		86.8	50-150			
PCB Congener #156 and/or 157	160	10	"	200.40		79.8	50-150			
PCB Congener #167	84	10	"	100.20		83.5	50-150			
PCB Congener #169	76	50	"	100.20		75.8	50-150			
PCB Congener #188	88	50	"	100.20		88.3	50-150			
PCB Congener #189	95	10	"	100.20		95.0	50-150			
PCB Congener #202	68	50	"	100.20		68.2	50-150			
PCB Congener #205	86	10	"	100.20		85.6	50-150			
PCB Congener #206	88	10	"	100.20		88.1	50-150			
PCB Congener #208	72	10	"	100.20		71.5	50-150			
PCB Congener #209	100	20	"	100.20		102	50-150			

**LCS Dup (1204143-BS1)**

Prepared: 04/27/12 Analyzed: 08/13/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	109.86		ng/kg	199.60		55.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	121.28		"	199.60		60.8	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	170.42		"	199.60		85.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	145.25		"	199.60		72.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	174.85		"	199.60		87.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	120.22		"	199.60		60.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	194.61		"	199.60		97.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	121.70		"	199.60		61.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	100.20		"	199.60		50.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	178.82		"	199.60		89.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	121.58		"	199.60		60.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	124.83		"	199.60		62.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	118.12		"	199.60		59.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	120.14		"	199.60		60.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	108.12		"	199.60		54.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	157.64		"	199.60		79.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	231.16		"	399.20		57.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	109.48		"	199.60		54.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	110.78		"	199.60		55.5	30-140			



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**LCS Dup (1204143-BSD1)**

Prepared: 04/27/12 Analyzed: 08/21/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	268.66		ng/kg	199.60		135	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	136.59		"	199.60		68.4	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	237.62		"	199.60		119	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	115.23		"	199.60		57.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	131.04		"	199.60		65.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	140.70		"	199.60		70.5	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	117.17		"	199.60		58.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	137.17		"	195.61		70.1	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	184.37		"	193.61		95.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	227.58		"	181.64		125	40-125			
PCB Congener # 1	85	10	"	99.800		84.9	50-150	6.58	30	
PCB Congener # 3	84	10	"	99.800		84.2	50-150	7.92	30	
PCB Congener # 4	78	10	"	99.800		78.3	50-150	14.0	30	
PCB Congener # 15	82	10	"	99.800		82.2	50-150	16.2	30	
PCB Congener # 19	73	10	"	99.800		73.3	50-150	13.7	30	
PCB Congener # 37	75	10	"	99.800		75.3	50-150	16.6	30	
PCB Congener # 54	72	10	"	99.800		72.1	50-150	16.2	30	
PCB Congener # 77	62	10	"	99.800		62.1	50-150	29.3	30	
PCB Congener # 81	69	10	"	99.800		69.2	50-150	15.5	30	
PCB Congener #104	62	10	"	99.800		62.5	50-150	19.2	30	
PCB Congener #105	64	10	"	99.800		63.9	50-150	30.1	30	QL-3
PCB Congener #114	60	10	"	99.800		59.8	50-150	38.1	30	QL-3
PCB Congener #118	71	10	"	99.800		70.8	50-150	31.7	30	QL-3
PCB Congener #123	62	10	"	99.800		62.5	50-150	30.6	30	QL-3
PCB Congener #126	59	10	"	99.800		58.8	50-150	24.8	30	
PCB Congener #155	57	10	"	99.800		57.1	50-150	41.8	30	QL-3
PCB Congener #156 and/or 157	120	10	"	199.60		60.5	50-150	27.9	30	
PCB Congener #167	62	10	"	99.800		62.4	50-150	29.4	30	
PCB Congener #169	55	50	"	99.800		54.8	50-150	32.5	30	QL-3
PCB Congener #188	50	50	"	99.800		50.2	50-150	55.4	30	QL-3
PCB Congener #189	66	10	"	99.800		65.7	50-150	36.9	30	QL-3
PCB Congener #202	49	50	"	99.800		48.7	50-150	33.8	30	Q-2, QL-1, QL-3, J
PCB Congener #205	61	10	"	99.800		61.0	50-150	34.0	30	QL-3
PCB Congener #206	52	50	"	99.800		52.0	50-150	51.9	30	QL-3
PCB Congener #208	51	10	"	99.800		50.9	50-150	34.0	30	QL-3
PCB Congener #209	61	100	"	99.800		61.4	50-150	50.0	30	Q-2, QL-3, J



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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Duplicate (1204143-DUP1)**

**Source: E113805-11**

Prepared: 04/27/12 Analyzed: 08/13/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	96.152		ng/kg	200.40		48.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	100.76		"	200.40		50.3	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	135.93		"	200.40		67.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	111.26		"	200.40		55.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	212.63		"	200.40		106	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	97.114		"	200.40		48.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	158.56		"	200.40		79.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	89.960		"	200.40		44.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	80.341		"	200.40		40.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	147.82		"	200.40		73.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	97.916		"	200.40		48.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	96.192		"	200.40		48.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	98.236		"	200.40		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	94.669		"	200.40		47.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	88.397		"	200.40		44.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	130.02		"	200.40		64.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	184.07		"	400.80		45.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	87.134		"	200.40		43.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	73.246		"	200.40		36.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	189.88		"	200.40		94.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	70.240		"	200.40		35.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	136.67		"	200.40		68.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	112.73		"	200.40		56.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	94.188		"	200.40		47.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	148.40		"	200.40		74.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	69.639		"	200.40		34.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	103.23		"	196.39		52.6	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	134.39		"	194.39		69.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	186.61		"	182.36		102	30-135			
PCB Congener # 1	U	10	"		U				30	U
PCB Congener # 2	U	10	"		U				30	U
PCB Congener # 3	U	10	"		U				30	U
PCB Congener # 4	4.7	10	"		3.6			26.0	30	J, Q-2
PCB Congener # 5	U	10	"		U				30	U
PCB Congener # 6	U	10	"		U				30	U
PCB Congener # 7	U	10	"		U				30	U
PCB Congener # 8	U	10	"		U				30	U
PCB Congener # 9	U	10	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Duplicate (1204143-DUP1)**

**Source: E113805-11**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener # 10	U	10	ng/kg		U				30	U
PCB Congener # 11	U	10	"		U				30	U
PCB Congener # 12 and/or 13	U	10	"		U				30	U
PCB Congener # 14	U	10	"		U				30	U
PCB Congener # 15	6.1	10	"		6.1			1.16	30	J, Q-2
PCB Congener # 16	U	50	"		U				30	U
PCB Congener # 17	U	50	"		U				30	U
PCB Congener # 18 and/or 30	67	50	"		U				30	
PCB Congener # 19	U	50	"		U				30	U
PCB Congener # 20 and/or 28	220	50	"		160			29.9	30	
PCB Congener # 21 and/or 33	U	50	"		U				30	U
PCB Congener # 22	U	50	"		U				30	U
PCB Congener # 23	U	50	"		U				30	U
PCB Congener # 24	U	50	"		U				30	U
PCB Congener # 25	U	50	"		U				30	U
PCB Congener # 26 and/or 29	U	50	"		U				30	U
PCB Congener # 27	U	50	"		U				30	U
PCB Congener # 31	120	50	"		82			34.0	30	J, QM-4
PCB Congener # 32	U	50	"		U				30	U
PCB Congener # 34	U	50	"		U				30	U
PCB Congener # 35	U	50	"		U				30	U
PCB Congener # 36	U	50	"		U				30	U
PCB Congener # 37	14	10	"		14			0.210	30	
PCB Congener # 38	U	50	"		U				30	U
PCB Congener # 39	U	50	"		U				30	U
PCB Congener # 40 and/or 41,71	150	10	"		140			5.54	30	
PCB Congener # 42	170	10	"		150			15.9	30	
PCB Congener # 43	15	10	"		16			6.97	30	
PCB Congener # 44 and/or 47,65	790	10	"		760			3.66	30	
PCB Congener # 45 and/or 51	29	10	"		28			3.29	30	
PCB Congener # 46	U	10	"		U				30	U
PCB Congener # 48	42	10	"		38			9.56	30	
PCB Congener # 49 and/or 69	570	10	"		520			8.03	30	
PCB Congener # 50 and/or 53	18	10	"		17			6.44	30	
PCB Congener # 52	930	10	"		840			10.3	30	
PCB Congener # 54	U	10	"		U				30	U
PCB Congener # 55	U	10	"		U				30	U
PCB Congener # 56	100	10	"		99			0.359	30	
PCB Congener # 57	U	10	"		U				30	U
PCB Congener # 58	U	10	"		U				30	U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Duplicate (1204143-DUP1)**

**Source: E113805-11**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener # 59 and/or 62,75	77	10	ng/kg		68			12.7	30	
PCB Congener # 60	61	10	"		63			3.45	30	
PCB Congener # 61 and/or 70,74,76	890	10	"		770			14.5	30	
PCB Congener # 63	32	10	"		33			4.67	30	
PCB Congener # 64	310	10	"		290			7.17	30	
PCB Congener # 66	740	10	"		620			17.5	30	
PCB Congener # 67	U	10	"		U				30	U
PCB Congener # 68	16	10	"		16			0.247	30	
PCB Congener # 72	16	10	"		16			1.37	30	
PCB Congener # 73	U	10	"		U				30	U
PCB Congener # 77	29	10	"		29			2.85	30	
PCB Congener # 78	U	10	"		U				30	U
PCB Congener # 79	U	10	"		U				30	U
PCB Congener # 80	U	10	"		U				30	U
PCB Congener # 81	U	10	"		U				30	U
PCB Congener # 82	110	10	"		83			24.3	30	
PCB Congener # 83 and/or 99	2000	10	"		1800			8.53	30	
PCB Congener # 84	150	10	"		120			26.8	30	
PCB Congener # 85 and/or 116,117	470	10	"		420			12.6	30	
PCB Congener # 86 and/or 87,97,109,119,125	900	10	"		880			2.39	30	
PCB Congener # 88 and/or 91	230	10	"		200			14.2	30	
PCB Congener # 89	U	10	"		U				30	U
PCB Congener # 90 and/or 101,113	1700	10	"		1700			4.20	30	
PCB Congener # 92	460	10	"		390			16.3	30	
PCB Congener # 93 and/or 95,98,100,102	770	10	"		580			28.8	30	
PCB Congener # 94	U	10	"		U				30	U
PCB Congener # 96	U	10	"		U				30	U
PCB Congener #103	24	10	"		26			6.20	30	
PCB Congener #104	U	10	"		U				30	U
PCB Congener #105	510	10	"		480			5.59	30	J, QL-3
PCB Congener #106	U	10	"		U				30	U
PCB Congener #107	170	10	"		170			0.192	30	
PCB Congener #108 and/or 124	42	10	"		35			18.0	30	
PCB Congener #110 and/or 115	1400	10	"		1500			4.32	30	
PCB Congener #111	U	10	"		U				30	U
PCB Congener #112	U	10	"		U				30	U
PCB Congener #114	34	10	"		31			8.02	30	J, QL-3
PCB Congener #118	1900	10	"		1700			11.4	30	J, QL-3
PCB Congener #120	27	10	"		22			17.4	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

Duplicate (1204143-DUP1)	Source: E113805-11			Prepared: 04/27/12	Analyzed: 08/13/12					
PCB Congener #121	U	10	ng/kg	U				30		U
PCB Congener #122	U	10	"	U				30		U
PCB Congener #123	44	10	"	40			9.51	30		J, QL-3
PCB Congener #126	28	10	"	U				30		
PCB Congener #127	U	10	"	U				30		U
PCB Congener #128 and/or 166	450	50	"	420			5.49	30		
PCB Congener #129 and/or 138,160,163	3200	50	"	3400			6.26	30		
PCB Congener #130	150	50	"	160			7.48	30		
PCB Congener #131	U	50	"	U				30		U
PCB Congener #132	320	50	"	360			11.8	30		
PCB Congener #133	79	50	"	73			7.20	30		
PCB Congener #134 and/or 143	64	50	"	50			23.9	30		
PCB Congener #135 and/or 151,154	710	50	"	980			31.9	30		J, QM-4
PCB Congener #136	94	50	"	88			6.66	30		
PCB Congener #137	120	50	"	120			1.24	30		
PCB Congener #139 and/or 140	61	50	"	63			3.53	30		
PCB Congener #141	330	50	"	310			6.61	30		
PCB Congener #142	U	50	"	U				30		U
PCB Congener #144	76	50	"	66			13.3	30		
PCB Congener #145	U	50	"	U				30		U
PCB Congener #146	670	50	"	800			17.5	30		
PCB Congener #147 and/or 149	1700	50	"	1700			2.41	30		
PCB Congener #148	U	50	"	U				30		U
PCB Congener #150	U	50	"	U				30		U
PCB Congener #152	U	50	"	U				30		U
PCB Congener #153 and/or 168	3600	50	"	3900			8.01	30		
PCB Congener #155	92	10	"	84			8.99	30		J, QL-3
PCB Congener #156 and/or 157	280	10	"	260			9.64	30		
PCB Congener #158	240	50	"	310			22.0	30		
PCB Congener #159	U	50	"	U				30		U
PCB Congener #161	U	50	"	U				30		U
PCB Congener #162	U	50	"	U				30		U
PCB Congener #164	180	50	"	150			16.8	30		
PCB Congener #165	U	50	"	U				30		U
PCB Congener #167	150	10	"	140			7.12	30		
PCB Congener #169	U	50	"	U				30		J, QL-3, U
PCB Congener #170	700	50	"	580			17.7	30		
PCB Congener #171 and/or 173	180	50	"	200			11.9	30		
PCB Congener #172	170	50	"	150			9.54	30		



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**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**Duplicate (1204143-DUP1)**

**Source: E113805-11**

Prepared: 04/27/12 Analyzed: 08/21/12

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB Congener #174	330	50	ng/kg		320			1.89	30	
PCB Congener #175	U	50	"		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	260	50	"		220		15.6		30	
PCB Congener #178	260	50	"		260		0.653		30	
PCB Congener #179	120	50	"		130		5.78		30	
PCB Congener #180 and/or 193	1900	50	"		1700		13.1		30	
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	610	50	"		530		14.1		30	
PCB Congener #184	120	50	"		100		13.5		30	
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	1600	50	"		1400		14.8		30	
PCB Congener #188	U	50	"		U				30	J, QL-3, U
PCB Congener #189	29	50	"		33		10.2		30	J, Q-2, QL-3
PCB Congener #190	170	50	"		140		21.8		30	
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	410	50	"		340		17.7		30	
PCB Congener #195	160	50	"		150		9.39		30	
PCB Congener #196	200	50	"		120		44.9		30	J, QM-4
PCB Congener #197 and/or 200	U	50	"		U				30	U
PCB Congener #198 and/or 199	880	50	"		550		47.1		30	J, QM-4
PCB Congener #201	76	50	"		90		16.4		30	
PCB Congener #202	270	50	"		270		0.575		30	J, QL-1, QL-3
PCB Congener #203	780	50	"		720		7.97		30	
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	26	50	"		28		7.24		30	J, Q-2, QL-3
PCB Congener #206	640	50	"		650		0.322		30	J, QL-3
PCB Congener #207	80	50	"		59		29.5		30	
PCB Congener #208	270	50	"		330		18.7		30	J, QL-3
PCB Congener #209	710	100	"		710		0.923		30	J, QL-3



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**MRL Verification (1204143-PS1)**

Prepared: 04/27/12 Analyzed: 08/13/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	98.036		ng/kg	200.40		48.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	106.07		"	200.40		52.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	138.26		"	200.40		69.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	115.57		"	200.40		57.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	137.90		"	200.40		68.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	84.429		"	200.40		42.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	163.11		"	200.40		81.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	96.072		"	200.40		47.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	81.263		"	200.40		40.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	163.41		"	200.40		81.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	96.934		"	200.40		48.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	100.52		"	200.40		50.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	103.27		"	200.40		51.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	101.60		"	200.40		50.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	92.425		"	200.40		46.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	150.94		"	200.40		75.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	218.42		"	400.80		54.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	103.35		"	200.40		51.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	86.473		"	200.40		43.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	259.22		"	200.40		129	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	124.43		"	200.40		62.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	207.41		"	200.40		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	110.12		"	200.40		54.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	246.23		"	200.40		123	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	120.90		"	200.40		60.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	94.689		"	200.40		47.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	119.06		"	196.39		60.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	164.69		"	194.39		84.7	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	217.07		"	182.36		119	40-125			
PCB Congener # 1	9.3	10	"	10.020		92.6	30-170			MRL-4, Q-2, J
PCB Congener # 3	10	10	"	10.020		99.4	30-170			MRL-4, Q-2
PCB Congener # 4	10	10	"	10.020		102	30-170			MRL-4
PCB Congener # 15	10	10	"	10.020		100	30-170			MRL-4
PCB Congener # 19	8.3	10	"	10.020		82.6	30-170			MRL-4, Q-2, J
PCB Congener # 37	7.6	10	"	10.020		76.0	30-170			MRL-4, Q-2, J



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204143 - E 1668**

**MRL Verification (1204143-PS1)**

Prepared: 04/27/12 Analyzed: 08/13/12

PCB Congener # 54	6.9	10	ng/kg	10.020		68.4	30-170			MRL-4, Q-2, J
PCB Congener # 77	8.0	10	"	10.020		80.2	30-170			MRL-4, Q-2, J
PCB Congener # 81	8.5	10	"	10.020		84.8	30-170			MRL-4, Q-2, J
PCB Congener #104	6.8	10	"	10.020		67.4	30-170			MRL-4, Q-2, J
PCB Congener #105	8.7	10	"	10.020		87.0	30-170			MRL-4, Q-2, J
PCB Congener #114	6.3	10	"	10.020		63.2	30-170			MRL-4, Q-2, J
PCB Congener #118	13	10	"	10.020		125	30-170			MRL-4
PCB Congener #123	7.4	10	"	10.020		73.4	30-170			MRL-4, Q-2, J
PCB Congener #126	6.5	10	"	10.020		64.4	30-170			MRL-4, Q-2, J
PCB Congener #155	6.6	10	"	10.020		66.0	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	14	10	"	20.040		69.0	30-170			MRL-4
PCB Congener #167	6.7	10	"	10.020		67.2	30-170			MRL-4, Q-2, J
PCB Congener #169	7.3	50	"	10.020		73.0	30-170			MRL-4, Q-2, J
PCB Congener #188	4.1	50	"	10.020		41.0	30-170			MRL-4, Q-2, J
PCB Congener #189	8.9	10	"	10.020		89.2	30-170			MRL-4, Q-2, J
PCB Congener #202	7.3	50	"	10.020		73.0	30-170			MRL-4, Q-2, J
PCB Congener #205	6.2	10	"	10.020		62.2	30-170			MRL-4, Q-2, J
PCB Congener #206	7.9	10	"	10.020		79.2	30-170			MRL-4, Q-2, J
PCB Congener #208	7.4	10	"	10.020		74.2	30-170			MRL-4, Q-2, J
PCB Congener #209	16	100	"	20.080		79.8	30-170			MRL-4, Q-2, J



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D.A.R.T. Id: 11-0321

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**Physical Properties (PHYSP) - Quality Control**

**US-EPA, Region 4, SED**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1110061 - E 3550 Tissue**

**Blank (1110061-BLK1)**

Prepared: 10/13/11 Analyzed: 10/14/11

**ASB E100**

% Lipids 0.0 %

**Duplicate (1110061-DUP1)**

Source: E113805-02

Prepared: 10/13/11 Analyzed: 10/14/11

**ASB E100**

% Lipids 0.20 % 0.10 66.7 20 QM-4



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QL-1 Laboratory Control Spike Recovery less than method control limits
- QL-3 Laboratory Control Spike Precision outside method control limits
- QM-4 Matrix Precision outside method control limits

**E113805**

**US-EPA, Region 4, SESD**

<b>Client:</b> Superfund Emergency Response and Removal (302DC6)	<b>Project Number:</b> 12-0001
<b>Project:</b> Yadkin River Sediment and Fish Tissue Sa - KRHAME	<b>Acct # / Location:</b> 302DC6CB4F9LA00 Stanly NC

<b>Project Leader:</b> Rhame, Ken	<b>Date Due:</b> 10/18/11 (35 day TAT)
Received By: Barden, Herbert	Date Received: 09/13/11 09:53
Logged In By: Barden, Herbert	Date Logged In: 09/13/11 13:24

Samples Received at: <b>0°C</b>	Placed in Cooler after Ice Removed:	D.A.R.T. Project ID: <u>11-0321</u>
Custody Seals: Yes	Sample Containers Intact: Yes	Program/Activity: <u>RP</u>
Custody Seals Intact: Yes	Samples & COC Match: Yes	Site/Waterbody: <u>Yadkin River (R4-00124)</u>
COC Present: Yes	COC/Labels Agree: Yes	
Ice in Cooler: Yes	All Analyses on COC: Yes	

Analysis	Due	TAT	Expires	Comments
<b>E113805-01 11-382 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-02 11-383 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-03 11-384 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-04 11-385 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-05 11-386 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-06 11-387 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-07 11-388 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-08 11-389 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-09 11-390 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-10 11-391 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L



WORK ORDER

Printed: 9/13/2011 1:47:29PM

**E113805**

US-EPA, Region 4, SESD

<b>Client:</b> Superfund Emergency Response and Removal (302DC6)	<b>Project Number:</b> 12-0001
<b>Project:</b> Yadkin River Sediment and Fish Tissue Sa - KRHAME	<b>Acct # / Location:</b> 302DC6CB4F9LA00 Stanly NC

Analysis	Due	TAT	Expires	Comments
<b>E113805-11 11-392 / YAD-HRL-SC [ Tissue / Fish ] Sampled 09/01/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/31/12 12:00	from F2L
<b>E113805-12 11-365 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113805-13 11-366 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113805-14 11-367 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L
<b>E113805-15 11-368 / YAD-HRL-UR [ Tissue / Fish ] Sampled 08/24/11 12:00</b>				
<i>A = Foil</i>				
PCB Homologs by 1668a	10/18/11 00:00	35	08/23/12 12:00	from F2L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

November 3, 2012

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa  
Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Ken Rhame

**This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.**

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b> PCB Congeners	EPA 1668A (Water)	None



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**Report Narrative** for Project: 12-0001

11/3/12 SJH PCB Congeners: Report reissued to correct the Blank Spikes (BS and BSD) and MRL verification (PS) limits for Congener 156/157 (the native). QC results in these cases met the required limits and no additional qualification was needed. Sample data results unchanged. This report replaces E114204,E123505 PCBC FINAL 10 27 12 1332.

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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
YR-01	E114204-01	Rinse Water Blank	10/11/11 10:30	10/13/11 9:55
YR-02	E114204-02	Equipment Rinse Blank	10/11/11 14:30	10/13/11 9:55
BB-011312	E123505-01	Equipment Rinse Blank	1/13/12 09:00	8/30/12 14:21
BB-091911	E123505-02	Equipment Rinse Blank	9/19/11 09:00	8/30/12 14:21
BB-092011	E123505-03	Equipment Rinse Blank	9/20/11 09:00	8/30/12 14:21
BB-092611	E123505-04	Equipment Rinse Blank	9/26/11 09:00	8/30/12 14:21
BB-092911	E123505-05	Equipment Rinse Blank	9/29/11 09:00	8/30/12 14:21
BB-111711	E123505-06	Equipment Rinse Blank	11/17/11 09:00	8/30/12 14:21
BB-111811	E123505-07	Equipment Rinse Blank	11/18/11 09:00	8/30/12 14:21
BB-120711	E123505-08	Equipment Rinse Blank	12/7/11 09:00	8/30/12 14:21
BB-120811	E123505-09	Equipment Rinse Blank	12/8/11 09:00	8/30/12 14:21
BB-121611	E123505-10	Equipment Rinse Blank	12/16/11 09:00	8/30/12 14:21
DIB-011312	E123505-11	Dry Ice Blank	1/13/12 09:00	8/30/12 14:21
DIB-091911	E123505-12	Dry Ice Blank	9/19/11 09:00	8/30/12 14:21
DIB-092611	E123505-13	Dry Ice Blank	9/26/11 09:00	8/30/12 14:21
DIB-111711	E123505-14	Dry Ice Blank	11/17/11 09:00	8/30/12 14:21
DIB-112111	E123505-15	Dry Ice Blank	11/21/11 09:00	8/30/12 14:21
DIB-120711	E123505-16	Dry Ice Blank	12/7/11 09:00	8/30/12 14:21
DIB-121611	E123505-17	Dry Ice Blank	12/16/11 09:00	8/30/12 14:21



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.
- QI-1 Internal standard was outside of method control limits.

### ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-01

Lab ID: E114204-01

Station ID:

Matrix: Rinse Water Blank

Date Collected: 10/11/11 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2051-61-8	PCB Congener # 2	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2051-62-9	PCB Congener # 3	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
13029-08-8	PCB Congener # 4	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
16605-91-7	PCB Congener # 5	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
25569-80-6	PCB Congener # 6	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33284-50-3	PCB Congener # 7	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
34883-43-7	PCB Congener # 8	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
34883-39-1	PCB Congener # 9	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33146-45-1	PCB Congener # 10	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2050-67-1	PCB Congener # 11	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
34883-41-5	PCB Congener # 14	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2050-68-2	PCB Congener # 15	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-78-9	PCB Congener # 16	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
37680-66-3	PCB Congener # 17	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-73-4	PCB Congener # 19	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-85-8	PCB Congener # 22	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
55720-44-0	PCB Congener # 23	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
55702-45-9	PCB Congener # 24	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
55712-37-3	PCB Congener # 25	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-76-7	PCB Congener # 27	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
16606-02-3	PCB Congener # 31	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-77-8	PCB Congener # 32	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-01

Lab ID: E114204-01

Station ID:

Matrix: Rinse Water Blank

Date Collected: 10/11/11 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
37680-69-6	PCB Congener # 35	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-87-0	PCB Congener # 36	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-90-5	PCB Congener # 37	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
53555-66-1	PCB Congener # 38	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-88-1	PCB Congener # 39	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
36559-22-5	PCB Congener # 42	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-46-8	PCB Congener # 43	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-47-5	PCB Congener # 46	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-47-9	PCB Congener # 48	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35693-99-3	PCB Congener # 52	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
15968-05-5	PCB Congener # 54	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74338-24-2	PCB Congener # 55	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-43-1	PCB Congener # 56	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70424-67-8	PCB Congener # 57	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-49-7	PCB Congener # 58	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33025-41-1	PCB Congener # 60	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-34-7	PCB Congener # 63	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-58-8	PCB Congener # 64	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32598-10-0	PCB Congener # 66	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-53-8	PCB Congener # 67	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-52-7	PCB Congener # 68	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-01**

**Lab ID: E114204-01**

**Station ID:**

**Matrix: Rinse Water Blank**

**Date Collected: 10/11/11 10:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74338-23-1	PCB Congener # 73	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32598-13-3	PCB Congener # 77	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-49-1	PCB Congener # 78	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-48-6	PCB Congener # 79	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33284-52-5	PCB Congener # 80	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-50-4	PCB Congener # 81	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-62-4	PCB Congener # 82	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-60-2	PCB Congener # 84	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-57-2	PCB Congener # 89	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-61-3	PCB Congener # 92	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-55-0	PCB Congener # 94	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-54-9	PCB Congener # 96	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
60145-21-3	PCB Congener #103	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
56558-16-8	PCB Congener #104	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32598-14-4	PCB Congener #105	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70424-69-0	PCB Congener #106	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70424-68-9	PCB Congener #107	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-32-0	PCB Congener #111	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-36-9	PCB Congener #112	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-01**

**Lab ID: E114204-01**

**Station ID:**

**Matrix: Rinse Water Blank**

**Date Collected: 10/11/11 10:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
31508-00-6	PCB Congener #118	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-12-7	PCB Congener #120	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
56558-18-0	PCB Congener #121	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
76842-07-4	PCB Congener #122	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
65510-44-3	PCB Congener #123	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
57465-28-8	PCB Congener #126	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-33-1	PCB Congener #127	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-66-8	PCB Congener #130	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
61798-70-7	PCB Congener #131	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38380-05-1	PCB Congener #132	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35694-04-3	PCB Congener #133	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38411-22-2	PCB Congener #136	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35694-06-5	PCB Congener #137	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52712-04-6	PCB Congener #141	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41411-61-4	PCB Congener #142	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-14-9	PCB Congener #144	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-40-5	PCB Congener #145	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
51908-16-8	PCB Congener #146	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-41-6	PCB Congener #148	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-08-1	PCB Congener #150	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-09-2	PCB Congener #152	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-01**

**Lab ID: E114204-01**

**Station ID:**

**Matrix: Rinse Water Blank**

**Date Collected: 10/11/11 10:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-42-7	PCB Congener #158	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-35-3	PCB Congener #159	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-43-8	PCB Congener #161	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-34-2	PCB Congener #162	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-45-0	PCB Congener #164	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-46-1	PCB Congener #165	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-72-6	PCB Congener #167	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32774-16-6	PCB Congener #169	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35065-30-6	PCB Congener #170	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-74-8	PCB Congener #172	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38411-25-5	PCB Congener #174	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
40186-70-7	PCB Congener #175	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-65-7	PCB Congener #176	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-70-4	PCB Congener #177	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-67-9	PCB Congener #178	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-64-6	PCB Congener #179	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-47-2	PCB Congener #181	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
60145-23-5	PCB Congener #182	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-48-3	PCB Congener #184	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-49-4	PCB Congener #186	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-68-0	PCB Congener #187	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74487-85-7	PCB Congener #188	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-31-9	PCB Congener #189	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41411-64-7	PCB Congener #190	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-01

Lab ID: E114204-01

Station ID:

Matrix: Rinse Water Blank

Date Collected: 10/11/11 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-51-8	PCB Congener #192	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35694-08-7	PCB Congener #194	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-78-2	PCB Congener #195	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
42740-50-1	PCB Congener #196	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
40186-71-8	PCB Congener #201	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2136-99-4	PCB Congener #202	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-76-0	PCB Congener #203	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-52-9	PCB Congener #204	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-53-0	PCB Congener #205	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
40186-72-9	PCB Congener #206	120	U, B-2	pg/L	120	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-79-3	PCB Congener #207	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-77-1	PCB Congener #208	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2051-24-3	PCB Congener #209	550	U	pg/L	550	9/07/12 7:57	9/12/12 18:58	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-02

Lab ID: E114204-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/11/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2051-61-8	PCB Congener # 2	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2051-62-9	PCB Congener # 3	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
13029-08-8	PCB Congener # 4	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
16605-91-7	PCB Congener # 5	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
25569-80-6	PCB Congener # 6	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33284-50-3	PCB Congener # 7	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
34883-43-7	PCB Congener # 8	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
34883-39-1	PCB Congener # 9	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33146-45-1	PCB Congener # 10	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2050-67-1	PCB Congener # 11	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
34883-41-5	PCB Congener # 14	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2050-68-2	PCB Congener # 15	33	J, Q-2	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-78-9	PCB Congener # 16	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
37680-66-3	PCB Congener # 17	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-73-4	PCB Congener # 19	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-85-8	PCB Congener # 22	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
55720-44-0	PCB Congener # 23	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
55702-45-9	PCB Congener # 24	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
55712-37-3	PCB Congener # 25	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-76-7	PCB Congener # 27	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
16606-02-3	PCB Congener # 31	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-77-8	PCB Congener # 32	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-02

Lab ID: E114204-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/11/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
37680-69-6	PCB Congener # 35	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-87-0	PCB Congener # 36	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-90-5	PCB Congener # 37	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
53555-66-1	PCB Congener # 38	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-88-1	PCB Congener # 39	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
36559-22-5	PCB Congener # 42	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-46-8	PCB Congener # 43	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-47-5	PCB Congener # 46	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-47-9	PCB Congener # 48	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35693-99-3	PCB Congener # 52	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
15968-05-5	PCB Congener # 54	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74338-24-2	PCB Congener # 55	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-43-1	PCB Congener # 56	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70424-67-8	PCB Congener # 57	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-49-7	PCB Congener # 58	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33025-41-1	PCB Congener # 60	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-34-7	PCB Congener # 63	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-58-8	PCB Congener # 64	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32598-10-0	PCB Congener # 66	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-53-8	PCB Congener # 67	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-52-7	PCB Congener # 68	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-02**

**Lab ID: E114204-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/11/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74338-23-1	PCB Congener # 73	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32598-13-3	PCB Congener # 77	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-49-1	PCB Congener # 78	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-48-6	PCB Congener # 79	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33284-52-5	PCB Congener # 80	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-50-4	PCB Congener # 81	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-62-4	PCB Congener # 82	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-60-2	PCB Congener # 84	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-57-2	PCB Congener # 89	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-61-3	PCB Congener # 92	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-55-0	PCB Congener # 94	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-54-9	PCB Congener # 96	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
60145-21-3	PCB Congener #103	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
56558-16-8	PCB Congener #104	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32598-14-4	PCB Congener #105	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70424-69-0	PCB Congener #106	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70424-68-9	PCB Congener #107	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-32-0	PCB Congener #111	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-36-9	PCB Congener #112	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-02**

**Lab ID: E114204-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/11/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
31508-00-6	PCB Congener #118	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-12-7	PCB Congener #120	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
56558-18-0	PCB Congener #121	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
76842-07-4	PCB Congener #122	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
65510-44-3	PCB Congener #123	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
57465-28-8	PCB Congener #126	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-33-1	PCB Congener #127	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-66-8	PCB Congener #130	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
61798-70-7	PCB Congener #131	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38380-05-1	PCB Congener #132	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35694-04-3	PCB Congener #133	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38411-22-2	PCB Congener #136	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35694-06-5	PCB Congener #137	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52712-04-6	PCB Congener #141	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41411-61-4	PCB Congener #142	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-14-9	PCB Congener #144	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-40-5	PCB Congener #145	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
51908-16-8	PCB Congener #146	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-41-6	PCB Congener #148	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-08-1	PCB Congener #150	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-09-2	PCB Congener #152	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** YR-02

**Lab ID:** E114204-02

**Station ID:**

**Matrix:** Equipment Rinse Blank

**Date Collected:** 10/11/11 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-42-7	PCB Congener #158	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-35-3	PCB Congener #159	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-43-8	PCB Congener #161	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-34-2	PCB Congener #162	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-45-0	PCB Congener #164	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-46-1	PCB Congener #165	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-72-6	PCB Congener #167	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32774-16-6	PCB Congener #169	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35065-30-6	PCB Congener #170	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-74-8	PCB Congener #172	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38411-25-5	PCB Congener #174	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
40186-70-7	PCB Congener #175	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-65-7	PCB Congener #176	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-70-4	PCB Congener #177	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-67-9	PCB Congener #178	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-64-6	PCB Congener #179	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-47-2	PCB Congener #181	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
60145-23-5	PCB Congener #182	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-48-3	PCB Congener #184	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-49-4	PCB Congener #186	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-68-0	PCB Congener #187	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74487-85-7	PCB Congener #188	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-31-9	PCB Congener #189	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41411-64-7	PCB Congener #190	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-02

Lab ID: E114204-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/11/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-51-8	PCB Congener #192	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35694-08-7	PCB Congener #194	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-78-2	PCB Congener #195	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
42740-50-1	PCB Congener #196	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
40186-71-8	PCB Congener #201	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2136-99-4	PCB Congener #202	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-76-0	PCB Congener #203	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-52-9	PCB Congener #204	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-53-0	PCB Congener #205	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
40186-72-9	PCB Congener #206	140	U, B-2	pg/L	140	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-79-3	PCB Congener #207	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-77-1	PCB Congener #208	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2051-24-3	PCB Congener #209	540	U	pg/L	540	9/07/12 7:57	9/12/12 20:02	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2050-68-2	PCB Congener # 15	43	J, Q-2	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-011312**

**Lab ID: E123505-01**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 1/13/12 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-011312**

**Lab ID: E123505-01**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 1/13/12 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-011312

Lab ID: E123505-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	170	U, B-2	pg/L	170	9/07/12 7:57	9/12/12 21:06	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
40186-72-9	PCB Congener #206	330	U, B-2	pg/L	330	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-77-1	PCB Congener #208	130	U, B-2	pg/L	130	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/12/12 21:06	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **BB-091911**

Lab ID: **E123505-02**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2050-68-2	PCB Congener # 15	26	J, Q-2	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-091911

Lab ID: E123505-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-091911**

**Lab ID: E123505-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/19/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-091911**

**Lab ID: E123505-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/19/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-091911

Lab ID: E123505-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-091911

Lab ID: E123505-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	160	U, B-2	pg/L	160	9/07/12 7:57	9/12/12 22:10	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
40186-72-9	PCB Congener #206	280	U, B-2	pg/L	280	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-77-1	PCB Congener #208	110	U, B-2	pg/L	110	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/12/12 22:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092011**

Lab ID: **E123505-03**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/20/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2050-68-2	PCB Congener # 15	37	J, Q-2	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A





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Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092011

Lab ID: E123505-03

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/20/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	120	U, B-2	pg/L	120	9/07/12 7:57	9/12/12 23:13	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
40186-72-9	PCB Congener #206	280	U, B-2	pg/L	280	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-77-1	PCB Congener #208	130	U, B-2	pg/L	130	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **BB-092611**

Lab ID: **E123505-04**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2050-68-2	PCB Congener # 15	33	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092611**

Lab ID: **E123505-04**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	130	U, B-2	pg/L	130	9/07/12 7:57	9/13/12 0:17	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
40186-72-9	PCB Congener #206	210	U, B-2	pg/L	210	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 0:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092911

Lab ID: E123505-05

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092911**

**Lab ID: E123505-05**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/29/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092911

Lab ID: E123505-05

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
40186-72-9	PCB Congener #206	230	U, B-2	pg/L	230	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 12:24	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111711

Lab ID: E123505-06

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2050-68-2	PCB Congener # 15	42	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111711**

Lab ID: **E123505-06**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111711**

Lab ID: **E123505-06**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111711**

**Lab ID: E123505-06**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/17/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111711

Lab ID: E123505-06

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111711

Lab ID: E123505-06

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	210	U, B-2	pg/L	210	9/07/12 7:57	9/13/12 13:28	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-76-0	PCB Congener #203	150	U, B-2	pg/L	150	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
40186-72-9	PCB Congener #206	460	U, B-2	pg/L	460	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-79-3	PCB Congener #207	100	U, J, QI-1	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-77-1	PCB Congener #208	220	U, J, B-2, QI-1	pg/L	220	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2051-24-3	PCB Congener #209	500	U, J, QI-1	pg/L	500	9/07/12 7:57	9/13/12 13:28	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111811**

Lab ID: **E123505-07**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/18/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2050-68-2	PCB Congener # 15	47	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A





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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111811**

Lab ID: **E123505-07**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/18/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A





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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A



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## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111811

Lab ID: E123505-07

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/18/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
40186-72-9	PCB Congener #206	310	U, B-2	pg/L	310	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 14:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120711**

Lab ID: **E123505-08**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2050-68-2	PCB Congener # 15	35	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120711**

Lab ID: **E123505-08**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A





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 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120711**

Lab ID: **E123505-08**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
40186-72-9	PCB Congener #206	290	U, B-2	pg/L	290	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 15:35	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120811**

Lab ID: **E123505-09**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/8/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	24	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2050-68-2	PCB Congener # 15	29	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120811**

**Lab ID: E123505-09**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/8/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120811**

**Lab ID: E123505-09**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/8/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120811**

Lab ID: **E123505-09**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/8/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120811**

Lab ID: **E123505-09**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/8/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120811**

Lab ID: **E123505-09**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/8/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
40186-72-9	PCB Congener #206	210	U, B-2	pg/L	210	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 16:39	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-121611**

Lab ID: **E123505-10**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2050-68-2	PCB Congener # 15	28	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-121611**

Lab ID: **E123505-10**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
40186-72-9	PCB Congener #206	180	U, B-2	pg/L	180	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 17:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2050-68-2	PCB Congener # 15	29	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** DIB-011312

**Lab ID:** E123505-11

**Station ID:**

**Matrix:** Dry Ice Blank

**Date Collected:** 1/13/12 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140	U, B-2	pg/L	140	9/07/12 7:57	9/13/12 18:46	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
40186-72-9	PCB Congener #206	310	U, B-2	pg/L	310	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-77-1	PCB Congener #208	120	U, B-2	pg/L	120	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2051-24-3	PCB Congener #209	500	U, J, QI-1	pg/L	500	9/07/12 7:57	9/13/12 18:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2050-68-2	PCB Congener # 15	29	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** DIB-091911

**Lab ID:** E123505-12

**Station ID:**

**Matrix:** Dry Ice Blank

**Date Collected:** 9/19/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	130	U, B-2	pg/L	130	9/07/12 7:57	9/13/12 19:50	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
40186-72-9	PCB Congener #206	300	U, B-2	pg/L	300	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 19:50	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2050-68-2	PCB Congener # 15	31	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
40186-72-9	PCB Congener #206	200	U, B-2	pg/L	200	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2051-24-3	PCB Congener #209	2400		pg/L	500	9/07/12 7:57	9/13/12 20:53	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** DIB-111711

**Lab ID:** E123505-14

**Station ID:**

**Matrix:** Dry Ice Blank

**Date Collected:** 11/17/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2050-68-2	PCB Congener # 15	36	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



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Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



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### PCB Congeners

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Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



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Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
40186-72-9	PCB Congener #206	220	U, B-2	pg/L	220	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 21:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2050-68-2	PCB Congener # 15	26	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160	U, B-2	pg/L	160	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
40186-72-9	PCB Congener #206	170	U, B-2	pg/L	170	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 23:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-120711

Lab ID: E123505-16

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2050-68-2	PCB Congener # 15	34	J, Q-2	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **DIB-120711**

Lab ID: **E123505-16**

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **DIB-120711**

Lab ID: **E123505-16**

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-120711**

**Lab ID: E123505-16**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-120711**

**Lab ID: E123505-16**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-120711

Lab ID: E123505-16

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
40186-72-9	PCB Congener #206	240	U, B-2	pg/L	240	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-79-3	PCB Congener #207	100	U, J, QI-1	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-77-1	PCB Congener #208	100	U, J, QI-1	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/14/12 14:15	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-121611**

**Lab ID: E123505-17**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
40186-72-9	PCB Congener #206	200	U, B-2	pg/L	200	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/14/12 15:19	EPA 1668A





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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	720.80		pg/L	2000.0		36.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	806.20		"	2000.0		40.3	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	779.60		"	2000.0		39.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	785.20		"	2000.0		39.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	784.40		"	2000.0		39.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1127.0		"	2000.0		56.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	997.80		"	2000.0		49.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1214.0		"	2000.0		60.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	966.20		"	2000.0		48.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	753.80		"	2000.0		37.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1035.6		"	2000.0		51.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1063.8		"	2000.0		53.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	998.40		"	2000.0		49.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	761.00		"	2000.0		38.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1057.2		"	2000.0		52.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	975.20		"	2000.0		48.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2686.4		"	4000.0		67.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1314.8		"	2000.0		65.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1392.6		"	2000.0		69.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	910.80		"	2000.0		45.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1014.4		"	2000.0		50.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	850.00		"	2000.0		42.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	764.20		"	2000.0		38.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1098.0		"	2000.0		54.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	972.20		"	2000.0		48.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	716.40		"	2000.0		35.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1466.4		"	1960.0		74.8	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1398.2		"	1940.0		72.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1351.0		"	1820.0		74.2	30-135			
PCB Congener # 1	U	100	"							U
PCB Congener # 2	U	100	"							U
PCB Congener # 3	U	100	"							U
PCB Congener # 4	50	100	"							B-3, Q-2, J
PCB Congener # 5	U	100	"							U
PCB Congener # 6	U	100	"							U
PCB Congener # 7	U	100	"							U
PCB Congener # 8	100	100	"							B-3
PCB Congener # 9	U	100	"							U





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 10	U	100	pg/L							U
PCB Congener # 11	U	100	"							U
PCB Congener # 12 and/or 13	U	100	"							U
PCB Congener # 14	U	100	"							U
PCB Congener # 15	U	100	"							U
PCB Congener # 16	U	100	"							U
PCB Congener # 17	U	100	"							U
PCB Congener # 18 and/or 30	110	100	"							B-3
PCB Congener # 19	U	100	"							U
PCB Congener # 20 and/or 28	110	100	"							B-3
PCB Congener # 21 and/or 33	U	100	"							U
PCB Congener # 22	U	100	"							U
PCB Congener # 23	U	100	"							U
PCB Congener # 24	U	100	"							U
PCB Congener # 25	U	100	"							U
PCB Congener # 26 and/or 29	U	100	"							U
PCB Congener # 27	U	100	"							U
PCB Congener # 31	110	100	"							B-3
PCB Congener # 32	U	100	"							U
PCB Congener # 34	U	100	"							U
PCB Congener # 35	U	100	"							U
PCB Congener # 36	U	100	"							U
PCB Congener # 37	39	100	"							B-3, Q-2, J
PCB Congener # 38	U	100	"							U
PCB Congener # 39	U	100	"							U
PCB Congener # 40 and/or 41,71	U	100	"							U
PCB Congener # 42	U	100	"							U
PCB Congener # 43	U	100	"							U
PCB Congener # 44 and/or 47,65	110	100	"							B-4
PCB Congener # 45 and/or 51	U	100	"							U
PCB Congener # 46	U	100	"							U
PCB Congener # 48	U	100	"							U
PCB Congener # 49 and/or 69	U	100	"							U
PCB Congener # 50 and/or 53	U	100	"							U
PCB Congener # 52	U	100	"							U
PCB Congener # 54	U	100	"							U
PCB Congener # 55	U	100	"							U
PCB Congener # 56	U	100	"							U
PCB Congener # 57	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 58	U	100	pg/L							U
PCB Congener # 59 and/or 62,75	U	100	"							U
PCB Congener # 60	U	100	"							U
PCB Congener # 61 and/or 70,74,76	100	100	"							B-3
PCB Congener # 63	U	100	"							U
PCB Congener # 64	U	100	"							U
PCB Congener # 66	U	100	"							U
PCB Congener # 67	U	100	"							U
PCB Congener # 68	U	100	"							U
PCB Congener # 72	U	100	"							U
PCB Congener # 73	U	100	"							U
PCB Congener # 77	15	100	"							B-3, Q-2, J
PCB Congener # 78	U	100	"							U
PCB Congener # 79	U	100	"							U
PCB Congener # 80	U	100	"							U
PCB Congener # 81	U	100	"							U
PCB Congener # 82	U	100	"							U
PCB Congener # 83 and/or 99	U	100	"							U
PCB Congener # 84	U	100	"							U
PCB Congener # 85 and/or 116,117	U	100	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	100	"							U
PCB Congener # 88 and/or 91	U	100	"							U
PCB Congener # 89	U	100	"							U
PCB Congener # 90 and/or 101,113	U	100	"							U
PCB Congener # 92	U	100	"							U
PCB Congener # 93 and/or 95,98,100,102	U	100	"							U
PCB Congener # 94	U	100	"							U
PCB Congener # 96	U	100	"							U
PCB Congener #103	U	100	"							U
PCB Congener #104	U	100	"							U
PCB Congener #105	43	100	"							B-3, Q-2, J
PCB Congener #106	U	100	"							U
PCB Congener #107	U	100	"							U
PCB Congener #108 and/or 124	U	100	"							U
PCB Congener #110 and/or 115	U	100	"							U
PCB Congener #111	U	100	"							U
PCB Congener #112	U	100	"							U
PCB Congener #114	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #118	49	100	pg/L							B-3, Q-2, J
PCB Congener #120	U	100	"							U
PCB Congener #121	U	100	"							U
PCB Congener #122	U	100	"							U
PCB Congener #123	U	100	"							U
PCB Congener #126	U	100	"							U
PCB Congener #127	U	100	"							U
PCB Congener #128 and/or 166	U	100	"							U
PCB Congener #129 and/or 138,160,163	U	100	"							U
PCB Congener #130	U	100	"							U
PCB Congener #131	U	100	"							U
PCB Congener #132	U	100	"							U
PCB Congener #133	U	100	"							U
PCB Congener #134 and/or 143	U	100	"							U
PCB Congener #135 and/or 151,154	U	100	"							U
PCB Congener #136	U	100	"							U
PCB Congener #137	U	100	"							U
PCB Congener #139 and/or 140	U	100	"							U
PCB Congener #141	U	100	"							U
PCB Congener #142	U	100	"							U
PCB Congener #144	U	100	"							U
PCB Congener #145	U	100	"							U
PCB Congener #146	U	100	"							U
PCB Congener #147 and/or 149	U	100	"							U
PCB Congener #148	U	100	"							U
PCB Congener #150	U	100	"							U
PCB Congener #152	U	100	"							U
PCB Congener #153 and/or 168	U	100	"							U
PCB Congener #155	U	100	"							U
PCB Congener #156 and/or 157	U	100	"							U
PCB Congener #158	U	100	"							U
PCB Congener #159	U	100	"							U
PCB Congener #161	U	100	"							U
PCB Congener #162	U	100	"							U
PCB Congener #164	U	100	"							U
PCB Congener #165	U	100	"							U
PCB Congener #167	U	100	"							U
PCB Congener #169	U	100	"							U
PCB Congener #170	U	100	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #171 and/or 173	U	100	pg/L							U
PCB Congener #172	U	100	"							U
PCB Congener #174	U	100	"							U
PCB Congener #175	U	100	"							U
PCB Congener #176	U	100	"							U
PCB Congener #177	U	100	"							U
PCB Congener #178	U	100	"							U
PCB Congener #179	U	100	"							U
PCB Congener #180 and/or 193	U	100	"							U
PCB Congener #181	U	100	"							U
PCB Congener #182	U	100	"							U
PCB Congener #183 and/or 185	U	100	"							U
PCB Congener #184	U	100	"							U
PCB Congener #186	U	100	"							U
PCB Congener #187	U	100	"							U
PCB Congener #188	U	100	"							U
PCB Congener #189	U	100	"							U
PCB Congener #190	U	100	"							U
PCB Congener #191	U	100	"							U
PCB Congener #192	U	100	"							U
PCB Congener #194	U	100	"							U
PCB Congener #195	U	100	"							U
PCB Congener #196	U	100	"							U
PCB Congener #197 and/or 200	U	100	"							U
PCB Congener #198 and/or 199	260	100	"							B-4
PCB Congener #201	U	100	"							U
PCB Congener #202	80	100	"							B-3, Q-2, J
PCB Congener #203	160	100	"							B-4
PCB Congener #204	U	100	"							U
PCB Congener #205	U	100	"							U
PCB Congener #206	490	100	"							B-4
PCB Congener #207	U	100	"							U
PCB Congener #208	200	100	"							B-4
PCB Congener #209	U	500	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**LCS (1209027-BS1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	973.20		pg/L	2000.0		48.7	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	1015.4		"	2000.0		50.8	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	1059.8		"	2000.0		53.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	1164.6		"	2000.0		58.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	846.60		"	2000.0		42.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1201.8		"	2000.0		60.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1043.6		"	2000.0		52.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1351.4		"	2000.0		67.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1141.4		"	2000.0		57.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	929.00		"	2000.0		46.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1204.2		"	2000.0		60.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1226.2		"	2000.0		61.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1137.2		"	2000.0		56.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1014.6		"	2000.0		50.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1188.0		"	2000.0		59.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1113.8		"	2000.0		55.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2662.2		"	4000.0		66.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1192.0		"	2000.0		59.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1341.2		"	2000.0		67.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1209.6		"	2000.0		60.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1379.8		"	2000.0		69.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	1143.4		"	2000.0		57.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1032.8		"	2000.0		51.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1357.4		"	2000.0		67.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1127.6		"	2000.0		56.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	891.20		"	2000.0		44.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1644.8		"	1960.0		83.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1615.8		"	1940.0		83.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1341.0		"	1820.0		73.7	40-125			
PCB Congener # 1	1000	100	"	1000.0		104	50-150			
PCB Congener # 3	1000	100	"	1000.0		102	50-150			
PCB Congener # 4	1000	100	"	1000.0		99.9	50-150			
PCB Congener # 15	1100	100	"	1000.0		108	50-150			
PCB Congener # 19	1000	100	"	1000.0		102	50-150			
PCB Congener # 37	850	100	"	1000.0		85.0	50-150			
PCB Congener # 54	980	100	"	1000.0		98.0	50-150			
PCB Congener # 77	940	100	"	1000.0		93.9	50-150			
PCB Congener # 81	1000	100	"	1000.0		102	50-150			



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**LCS (1209027-BS1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #104	1000	100	pg/L	1000.0		101	50-150			
PCB Congener #105	950	100	"	1000.0		95.0	50-150			
PCB Congener #114	920	100	"	1000.0		92.3	50-150			
PCB Congener #118	1100	100	"	1000.0		111	50-150			
PCB Congener #123	960	100	"	1000.0		96.4	50-150			
PCB Congener #126	960	100	"	1000.0		95.8	50-150			
PCB Congener #155	920	100	"	1000.0		91.7	50-150			
PCB Congener #156 and/or 157	1900	100	"	2000.0		95.9	0-200			
PCB Congener #167	920	100	"	1000.0		91.6	50-150			
PCB Congener #169	950	100	"	1000.0		94.6	50-150			
PCB Congener #188	920	100	"	1000.0		92.2	50-150			
PCB Congener #189	920	100	"	1000.0		91.8	50-150			
PCB Congener #202	1000	100	"	1000.0		102	50-150			
PCB Congener #205	1100	100	"	1000.0		108	50-150			
PCB Congener #206	1300	100	"	1000.0		133	50-150			
PCB Congener #208	1100	100	"	1000.0		114	50-150			
PCB Congener #209	1400	500	"	1000.0		136	50-150			

**LCS Dup (1209027-BSD1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	757.00		pg/L	2000.0		37.8	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	948.60		"	2000.0		47.4	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	990.20		"	2000.0		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	1024.6		"	2000.0		51.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	919.00		"	2000.0		46.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1263.4		"	2000.0		63.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	961.40		"	2000.0		48.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1306.6		"	2000.0		65.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1131.2		"	2000.0		56.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1008.0		"	2000.0		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1123.4		"	2000.0		56.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1052.4		"	2000.0		52.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1110.2		"	2000.0		55.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1100.8		"	2000.0		55.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1081.8		"	2000.0		54.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1187.8		"	2000.0		59.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	3372.4		"	4000.0		84.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1166.2		"	2000.0		58.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1724.2		"	2000.0		86.2	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**LCS Dup (1209027-BSD1)**

Prepared: 09/07/12 Analyzed: 09/12/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	1093.2		pg/L	2000.0		54.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	1191.4		"	2000.0		59.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	1041.8		"	2000.0		52.1	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	956.00		"	2000.0		47.8	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	1161.6		"	2000.0		58.1	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	1153.4		"	2000.0		57.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	813.80		"	2000.0		40.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	1641.4		"	1960.0		83.7	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	1513.4		"	1940.0		78.0	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	1756.8		"	1820.0		96.5	40-125			
PCB Congener # 1	1000	100	"	1000.0		104	50-150	0.403	30	
PCB Congener # 3	980	100	"	1000.0		97.8	50-150	4.63	30	
PCB Congener # 4	1000	100	"	1000.0		105	50-150	4.79	30	
PCB Congener # 15	1100	100	"	1000.0		113	50-150	4.22	30	
PCB Congener # 19	930	100	"	1000.0		92.6	50-150	9.68	30	
PCB Congener # 37	900	100	"	1000.0		90.4	50-150	6.20	30	
PCB Congener # 54	1100	100	"	1000.0		112	50-150	13.1	30	
PCB Congener # 77	930	100	"	1000.0		93.1	50-150	0.813	30	
PCB Congener # 81	940	100	"	1000.0		94.5	50-150	8.13	30	
PCB Congener #104	940	100	"	1000.0		93.9	50-150	6.99	30	
PCB Congener #105	980	100	"	1000.0		97.7	50-150	2.80	30	
PCB Congener #114	890	100	"	1000.0		89.5	50-150	3.17	30	
PCB Congener #118	1000	100	"	1000.0		103	50-150	7.45	30	
PCB Congener #123	930	100	"	1000.0		93.2	50-150	3.40	30	
PCB Congener #126	940	100	"	1000.0		94.3	50-150	1.58	30	
PCB Congener #155	880	100	"	1000.0		87.7	50-150	4.42	30	
PCB Congener #156 and/or 157	2000	100	"	2000.0		99.1	0-200	3.23	200	
PCB Congener #167	910	100	"	1000.0		90.6	50-150	1.14	30	
PCB Congener #169	920	100	"	1000.0		92.0	50-150	2.74	30	
PCB Congener #188	860	100	"	1000.0		86.2	50-150	6.79	30	
PCB Congener #189	940	100	"	1000.0		94.3	50-150	2.71	30	
PCB Congener #202	940	100	"	1000.0		94.4	50-150	7.37	30	
PCB Congener #205	1000	100	"	1000.0		103	50-150	5.30	30	
PCB Congener #206	1200	100	"	1000.0		122	50-150	8.90	30	
PCB Congener #208	1000	100	"	1000.0		103	50-150	10.3	30	
PCB Congener #209	1300	500	"	1000.0		128	50-150	6.35	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	677.16		pg/L	2185.8		31.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	822.95		"	2185.8		37.7	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	895.74		"	2185.8		41.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	1005.9		"	2185.8		46.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	925.90		"	2185.8		42.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1047.0		"	2185.8		47.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	856.83		"	2185.8		39.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	928.09		"	2185.8		42.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	903.39		"	2185.8		41.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1066.4		"	2185.8		48.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1072.1		"	2185.8		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1175.7		"	2185.8		53.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1099.0		"	2185.8		50.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1047.9		"	2185.8		47.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1160.7		"	2185.8		53.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	855.52		"	2185.8		39.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2481.5		"	4371.6		56.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1217.7		"	2185.8		55.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1263.8		"	2185.8		57.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1196.5		"	2185.8		54.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1162.6		"	2185.8		53.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	1183.8		"	2185.8		54.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1072.1		"	2185.8		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1185.8		"	2185.8		54.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1142.3		"	2185.8		52.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	881.97		"	2185.8		40.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1429.7		"	2142.1		66.7	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1291.1		"	2120.2		60.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1336.2		"	1989.1		67.2	30-135			
PCB Congener # 1	U	110	"		U				30	U
PCB Congener # 2	U	110	"		U				30	U
PCB Congener # 3	U	110	"		U				30	U
PCB Congener # 4	U	110	"		U				30	U
PCB Congener # 5	U	110	"		U				30	U
PCB Congener # 6	U	110	"		U				30	U
PCB Congener # 7	U	110	"		U				30	U
PCB Congener # 8	U	110	"		U				30	U
PCB Congener # 9	U	110	"		U				30	U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 10	U	110	pg/L		U				30	U
PCB Congener # 11	U	110	"		U				30	U
PCB Congener # 12 and/or 13	U	110	"		U				30	U
PCB Congener # 14	U	110	"		U				30	U
PCB Congener # 15	36	110	"		33		7.53		30	J, Q-2
PCB Congener # 16	U	110	"		U				30	U
PCB Congener # 17	U	110	"		U				30	U
PCB Congener # 18 and/or 30	U	110	"		U				30	U
PCB Congener # 19	U	110	"		U				30	U
PCB Congener # 20 and/or 28	U	110	"		U				30	U
PCB Congener # 21 and/or 33	U	110	"		U				30	U
PCB Congener # 22	U	110	"		U				30	U
PCB Congener # 23	U	110	"		U				30	U
PCB Congener # 24	U	110	"		U				30	U
PCB Congener # 25	U	110	"		U				30	U
PCB Congener # 26 and/or 29	U	110	"		U				30	U
PCB Congener # 27	U	110	"		U				30	U
PCB Congener # 31	U	110	"		U				30	U
PCB Congener # 32	U	110	"		U				30	U
PCB Congener # 34	U	110	"		U				30	U
PCB Congener # 35	U	110	"		U				30	U
PCB Congener # 36	U	110	"		U				30	U
PCB Congener # 37	U	110	"		U				30	U
PCB Congener # 38	U	110	"		U				30	U
PCB Congener # 39	U	110	"		U				30	U
PCB Congener # 40 and/or 41,71	U	110	"		U				30	U
PCB Congener # 42	U	110	"		U				30	U
PCB Congener # 43	U	110	"		U				30	U
PCB Congener # 44 and/or 47,65	U	110	"		U				30	U
PCB Congener # 45 and/or 51	U	110	"		U				30	U
PCB Congener # 46	U	110	"		U				30	U
PCB Congener # 48	U	110	"		U				30	U
PCB Congener # 49 and/or 69	U	110	"		U				30	U
PCB Congener # 50 and/or 53	U	110	"		U				30	U
PCB Congener # 52	U	110	"		U				30	U
PCB Congener # 54	U	110	"		U				30	U
PCB Congener # 55	U	110	"		U				30	U
PCB Congener # 56	U	110	"		U				30	U
PCB Congener # 57	U	110	"		U				30	U
PCB Congener # 58	U	110	"		U				30	U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 59 and/or 62,75	U	110	pg/L		U			30		U
PCB Congener # 60	U	110	"		U			30		U
PCB Congener # 61 and/or 70,74,76	U	110	"		U			30		U
PCB Congener # 63	U	110	"		U			30		U
PCB Congener # 64	U	110	"		U			30		U
PCB Congener # 66	U	110	"		U			30		U
PCB Congener # 67	U	110	"		U			30		U
PCB Congener # 68	U	110	"		U			30		U
PCB Congener # 72	U	110	"		U			30		U
PCB Congener # 73	U	110	"		U			30		U
PCB Congener # 77	U	110	"		U			30		U
PCB Congener # 78	U	110	"		U			30		U
PCB Congener # 79	U	110	"		U			30		U
PCB Congener # 80	U	110	"		U			30		U
PCB Congener # 81	U	110	"		U			30		U
PCB Congener # 82	U	110	"		U			30		U
PCB Congener # 83 and/or 99	U	110	"		U			30		U
PCB Congener # 84	U	110	"		U			30		U
PCB Congener # 85 and/or 116,117	U	110	"		U			30		U
PCB Congener # 86 and/or 87,97,109,119,125	U	110	"		U			30		U
PCB Congener # 88 and/or 91	U	110	"		U			30		U
PCB Congener # 89	U	110	"		U			30		U
PCB Congener # 90 and/or 101,113	U	110	"		U			30		U
PCB Congener # 92	U	110	"		U			30		U
PCB Congener # 93 and/or 95,98,100,102	U	110	"		U			30		U
PCB Congener # 94	U	110	"		U			30		U
PCB Congener # 96	U	110	"		U			30		U
PCB Congener #103	U	110	"		U			30		U
PCB Congener #104	U	110	"		U			30		U
PCB Congener #105	U	110	"		U			30		U
PCB Congener #106	U	110	"		U			30		U
PCB Congener #107	U	110	"		U			30		U
PCB Congener #108 and/or 124	U	110	"		U			30		U
PCB Congener #110 and/or 115	U	110	"		U			30		U
PCB Congener #111	U	110	"		U			30		U
PCB Congener #112	U	110	"		U			30		U
PCB Congener #114	U	110	"		U			30		U
PCB Congener #118	U	110	"		U			30		U
PCB Congener #120	U	110	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #121	U	110	pg/L		U				30	U
PCB Congener #122	U	110	"		U				30	U
PCB Congener #123	U	110	"		U				30	U
PCB Congener #126	U	110	"		U				30	U
PCB Congener #127	U	110	"		U				30	U
PCB Congener #128 and/or 166	U	110	"		U				30	U
PCB Congener #129 and/or 138,160,163	U	110	"		U				30	U
PCB Congener #130	U	110	"		U				30	U
PCB Congener #131	U	110	"		U				30	U
PCB Congener #132	U	110	"		U				30	U
PCB Congener #133	U	110	"		U				30	U
PCB Congener #134 and/or 143	U	110	"		U				30	U
PCB Congener #135 and/or 151,154	U	110	"		U				30	U
PCB Congener #136	U	110	"		U				30	U
PCB Congener #137	U	110	"		U				30	U
PCB Congener #139 and/or 140	U	110	"		U				30	U
PCB Congener #141	U	110	"		U				30	U
PCB Congener #142	U	110	"		U				30	U
PCB Congener #144	U	110	"		U				30	U
PCB Congener #145	U	110	"		U				30	U
PCB Congener #146	U	110	"		U				30	U
PCB Congener #147 and/or 149	U	110	"		U				30	U
PCB Congener #148	U	110	"		U				30	U
PCB Congener #150	U	110	"		U				30	U
PCB Congener #152	U	110	"		U				30	U
PCB Congener #153 and/or 168	U	110	"		U				30	U
PCB Congener #155	U	110	"		U				30	U
PCB Congener #156 and/or 157	U	110	"		U				30	U
PCB Congener #158	U	110	"		U				30	U
PCB Congener #159	U	110	"		U				30	U
PCB Congener #161	U	110	"		U				30	U
PCB Congener #162	U	110	"		U				30	U
PCB Congener #164	U	110	"		U				30	U
PCB Congener #165	U	110	"		U				30	U
PCB Congener #167	U	110	"		U				30	U
PCB Congener #169	U	110	"		U				30	U
PCB Congener #170	U	110	"		U				30	U
PCB Congener #171 and/or 173	U	110	"		U				30	U
PCB Congener #172	U	110	"		U				30	U
PCB Congener #174	U	110	"		U				30	U



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #175	U	110	pg/L		U			30		U
PCB Congener #176	U	110	"		U			30		U
PCB Congener #177	U	110	"		U			30		U
PCB Congener #178	U	110	"		U			30		U
PCB Congener #179	U	110	"		U			30		U
PCB Congener #180 and/or 193	U	110	"		U			30		U
PCB Congener #181	U	110	"		U			30		U
PCB Congener #182	U	110	"		U			30		U
PCB Congener #183 and/or 185	U	110	"		U			30		U
PCB Congener #184	U	110	"		U			30		U
PCB Congener #186	U	110	"		U			30		U
PCB Congener #187	U	110	"		U			30		U
PCB Congener #188	U	110	"		U			30		U
PCB Congener #189	U	110	"		U			30		U
PCB Congener #190	U	110	"		U			30		U
PCB Congener #191	U	110	"		U			30		U
PCB Congener #192	U	110	"		U			30		U
PCB Congener #194	U	110	"		U			30		U
PCB Congener #195	U	110	"		U			30		U
PCB Congener #196	U	110	"		U			30		U
PCB Congener #197 and/or 200	U	110	"		U			30		U
PCB Congener #198 and/or 199	U	110	"		U			30		U
PCB Congener #201	U	110	"		U			30		U
PCB Congener #202	U	110	"		U			30		U
PCB Congener #203	U	110	"		U			30		U
PCB Congener #204	U	110	"		U			30		U
PCB Congener #205	U	110	"		U			30		U
PCB Congener #206	U	180	"		U			30		B-2, U
PCB Congener #207	U	110	"		U			30		U
PCB Congener #208	U	110	"		U			30		U
PCB Congener #209	U	550	"		U			30		U



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**MRL Verification (1209027-PS1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	620.80		pg/L	2000.0		31.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	665.80		"	2000.0		33.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	717.80		"	2000.0		35.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	901.40		"	2000.0		45.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	753.00		"	2000.0		37.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1050.8		"	2000.0		52.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	956.40		"	2000.0		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1202.6		"	2000.0		60.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1030.4		"	2000.0		51.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	929.40		"	2000.0		46.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	743.60		"	2000.0		37.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	960.40		"	2000.0		48.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1006.6		"	2000.0		50.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	910.40		"	2000.0		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	989.80		"	2000.0		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	978.40		"	2000.0		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2299.6		"	4000.0		57.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1090.6		"	2000.0		54.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1199.2		"	2000.0		60.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1156.8		"	2000.0		57.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1151.2		"	2000.0		57.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	910.80		"	2000.0		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1018.6		"	2000.0		50.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1078.2		"	2000.0		53.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1088.8		"	2000.0		54.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	851.40		"	2000.0		42.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1435.8		"	1960.0		73.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1369.2		"	1940.0		70.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1397.6		"	1820.0		76.8	40-125			
PCB Congener # 1	100	100	"	100.00		103	30-170			MRL-2
PCB Congener # 3	100	100	"	100.00		99.8	30-170			MRL-2, Q-2
PCB Congener # 4	140	100	"	100.00		136	30-170			MRL-2
PCB Congener # 15	140	100	"	100.00		139	30-170			MRL-2
PCB Congener # 19	94	100	"	100.00		93.8	30-170			MRL-2, Q-2, J
PCB Congener # 37	110	100	"	100.00		111	30-170			MRL-2
PCB Congener # 54	100	100	"	100.00		100	30-170			MRL-2



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1209027 - E 1668</b>										
<b>MRL Verification (1209027-PS1)</b>					Prepared: 09/07/12 Analyzed: 09/12/12					
PCB Congener # 77	97	100	pg/L	100.00		96.8	30-170			MRL-2, Q-2, J
PCB Congener # 81	92	100	"	100.00		92.4	30-170			MRL-2, Q-2, J
PCB Congener #104	87	100	"	100.00		87.0	30-170			MRL-2, Q-2, J
PCB Congener #105	110	100	"	100.00		110	30-170			MRL-2
PCB Congener #114	88	100	"	100.00		88.2	30-170			MRL-2, Q-2, J
PCB Congener #118	99	100	"	100.00		99.2	30-170			MRL-2, Q-2, J
PCB Congener #123	97	100	"	100.00		96.8	30-170			MRL-2, Q-2, J
PCB Congener #126	96	100	"	100.00		95.8	30-170			MRL-2, Q-2, J
PCB Congener #155	91	100	"	100.00		90.8	30-170			MRL-2, Q-2, J
PCB Congener #156 and/or 157	200	100	"	200.00		98.9	0-200			MRL-2
PCB Congener #167	92	100	"	100.00		92.0	30-170			MRL-2, Q-2, J
PCB Congener #169	92	100	"	100.00		92.2	30-170			MRL-2, Q-2, J
PCB Congener #188	83	100	"	100.00		82.8	30-170			MRL-2, Q-2, J
PCB Congener #189	99	100	"	100.00		98.8	30-170			MRL-2, Q-2, J
PCB Congener #202	140	100	"	100.00		140	30-170			MRL-2
PCB Congener #205	110	100	"	100.00		114	30-170			MRL-2
PCB Congener #206	330	100	"	100.00		328	30-170			MRL-2, QR-2
PCB Congener #208	190	100	"	100.00		192	30-170			MRL-2, QR-2
PCB Congener #209	670	500	"	500.00		134	30-170			MRL-2



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QR-2 MRL verification recovery greater than upper control limits.



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Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**October 25, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-460	E114502-01	Fish	10/4/11 12:00	11/1/11 10:00
11-461	E114502-02	Fish	10/4/11 12:00	11/1/11 10:00
11-462	E114502-03	Fish	10/4/11 12:00	11/1/11 10:00
11-463	E114502-04	Fish	10/4/11 12:00	11/1/11 10:00
11-475	E115201-01	Fish	11/15/11 12:00	12/20/11 10:19
11-476	E115201-02	Fish	11/15/11 12:00	12/20/11 10:19



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QM-4	Matrix Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
13029-08-8	PCB Congener # 4	3.8	J, Q-2	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	14	U, B-5	ng/kg	14	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-73-4	PCB Congener # 19	1.6	J, Q-2	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	59		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
16606-02-3	PCB Congener # 31	16	U, B-5	ng/kg	16	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-90-5	PCB Congener # 37	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	18		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
36559-22-5	PCB Congener # 42	35		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	220		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70362-47-9	PCB Congener # 48	13		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	160		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
35693-99-3	PCB Congener # 52	250		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
41464-43-1	PCB Congener # 56	13		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	21		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
33025-41-1	PCB Congener # 60	27		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	170		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
74472-34-7	PCB Congener # 63	14		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
52663-58-8	PCB Congener # 64	82		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
32598-10-0	PCB Congener # 66	280		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A



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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
32598-13-3	PCB Congener # 77	6.0	J, Q-2	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
52663-62-4	PCB Congener # 82	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	640		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
52663-60-2	PCB Congener # 84	18		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	160		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	200		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	60		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	610		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
52663-61-3	PCB Congener # 92	120		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	220		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
32598-14-4	PCB Congener #105	180		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
70424-68-9	PCB Congener #107	65		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	410		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	12		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
31508-00-6	PCB Congener #118	790		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
68194-12-7	PCB Congener #120	10		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
65510-44-3	PCB Congener #123	12		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	180		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1400		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-66-8	PCB Congener #130	64		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
38380-05-1	PCB Congener #132	67		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	390		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52712-04-6	PCB Congener #141	89		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
51908-16-8	PCB Congener #146	330		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	690		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1800	J, QM-4	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A



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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	18		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	81		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
74472-42-7	PCB Congener #158	89		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-45-0	PCB Congener #164	51		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-72-6	PCB Congener #167	61		ng/kg	9.9	8/20/12 19:27	8/29/12 21:26	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
35065-30-6	PCB Congener #170	170		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	75		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
38411-25-5	PCB Congener #174	140		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-67-9	PCB Congener #178	120		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-64-6	PCB Congener #179	74		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	570		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	210		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-68-0	PCB Congener #187	660		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
39635-31-9	PCB Congener #189	8.6	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
41411-64-7	PCB Congener #190	57		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
35694-08-7	PCB Congener #194	64		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
42740-50-1	PCB Congener #196	58		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	290		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
40186-71-8	PCB Congener #201	54		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
2136-99-4	PCB Congener #202	180		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-76-0	PCB Congener #203	360		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
74472-53-0	PCB Congener #205	8.8	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
40186-72-9	PCB Congener #206	410		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
52663-77-1	PCB Congener #208	230		ng/kg	50	8/20/12 19:27	9/10/12 19:04	EPA 1668A
2051-24-3	PCB Congener #209	380		ng/kg	99	8/20/12 19:27	9/10/12 19:04	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-460

Lab ID: E114502-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.4		%		3/27/12 10:36	3/28/12 9:18	ASB E100



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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	16	U, B-2	ng/kg	16	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	34	U, B-5	ng/kg	34	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	19	U, B-5	ng/kg	19	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
35693-99-3	PCB Congener # 52	26	U, B-2	ng/kg	26	8/20/12 19:27	8/29/12 22:30	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	37	U, B-2	ng/kg	37	8/20/12 19:27	8/29/12 22:30	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
52663-58-8	PCB Congener # 64	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
32598-10-0	PCB Congener # 66	51		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
32598-13-3	PCB Congener # 77	2.0	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	61		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	25		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	17	U, B-5	ng/kg	17	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	37	U, B-2	ng/kg	37	8/20/12 19:27	8/29/12 22:30	EPA 1668A
52663-61-3	PCB Congener # 92	21		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	22	U, B-5	ng/kg	22	8/20/12 19:27	8/29/12 22:30	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
32598-14-4	PCB Congener #105	40		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	13	U, B-5	ng/kg	13	8/20/12 19:27	8/29/12 22:30	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.3	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
31508-00-6	PCB Congener #118	200		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
65510-44-3	PCB Congener #123	3.4	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	250		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-66-8	PCB Congener #130	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
61798-70-7	PCB Congener #131	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
38380-05-1	PCB Congener #132	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
35694-04-3	PCB Congener #133	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	53		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
38411-22-2	PCB Congener #136	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
35694-06-5	PCB Congener #137	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52712-04-6	PCB Congener #141	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
41411-61-4	PCB Congener #142	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
68194-14-9	PCB Congener #144	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-40-5	PCB Congener #145	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
51908-16-8	PCB Congener #146	72		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	83		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-41-6	PCB Congener #148	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
68194-08-1	PCB Congener #150	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
68194-09-2	PCB Congener #152	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	160		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.0	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	22		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
74472-42-7	PCB Congener #158	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
39635-35-3	PCB Congener #159	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-43-8	PCB Congener #161	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
39635-34-2	PCB Congener #162	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-45-0	PCB Congener #164	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-46-1	PCB Congener #165	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	10	8/20/12 19:27	8/29/12 22:30	EPA 1668A
32774-16-6	PCB Congener #169	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
35065-30-6	PCB Congener #170	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-74-8	PCB Congener #172	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
38411-25-5	PCB Congener #174	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
40186-70-7	PCB Congener #175	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-65-7	PCB Congener #176	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-70-4	PCB Congener #177	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-67-9	PCB Congener #178	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-64-6	PCB Congener #179	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-47-2	PCB Congener #181	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
60145-23-5	PCB Congener #182	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-48-3	PCB Congener #184	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-49-4	PCB Congener #186	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-68-0	PCB Congener #187	160		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74487-85-7	PCB Congener #188	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
39635-31-9	PCB Congener #189	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
41411-64-7	PCB Congener #190	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A





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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-51-8	PCB Congener #192	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
35694-08-7	PCB Congener #194	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-78-2	PCB Congener #195	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
42740-50-1	PCB Congener #196	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	78		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
40186-71-8	PCB Congener #201	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
2136-99-4	PCB Congener #202	50	J, Q-2, QR-2	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-76-0	PCB Congener #203	120		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-52-9	PCB Congener #204	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
74472-53-0	PCB Congener #205	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
40186-72-9	PCB Congener #206	92	U, B-2	ng/kg	92	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-79-3	PCB Congener #207	51	U	ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
52663-77-1	PCB Congener #208	55		ng/kg	51	8/20/12 19:27	9/10/12 20:08	EPA 1668A
2051-24-3	PCB Congener #209	68	J, Q-2	ng/kg	100	8/20/12 19:27	9/10/12 20:08	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-461

Lab ID: E114502-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.6		%		3/27/12 10:36	3/28/12 9:18	ASB E100



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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
13029-08-8	PCB Congener # 4	4.7	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	13	U, B-5	ng/kg	13	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-73-4	PCB Congener # 19	3.3	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	59		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
16606-02-3	PCB Congener # 31	17	U, B-5	ng/kg	17	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
36559-22-5	PCB Congener # 42	56		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	260		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	160		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
35693-99-3	PCB Congener # 52	170		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	23		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
33025-41-1	PCB Congener # 60	33		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	180		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
74472-34-7	PCB Congener # 63	14		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
52663-58-8	PCB Congener # 64	84		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
32598-10-0	PCB Congener # 66	370		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
32598-13-3	PCB Congener # 77	3.3	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	520		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
52663-60-2	PCB Congener # 84	25		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	160		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	210		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	61		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	460		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
52663-61-3	PCB Congener # 92	130		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	95		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
32598-14-4	PCB Congener #105	190		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
70424-68-9	PCB Congener #107	64		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	380		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	8.8	J, Q-2	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
31508-00-6	PCB Congener #118	870		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
68194-12-7	PCB Congener #120	11		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
65510-44-3	PCB Congener #123	18		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	150		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1300		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-66-8	PCB Congener #130	64		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
38380-05-1	PCB Congener #132	85		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	330		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52712-04-6	PCB Congener #141	50		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
51908-16-8	PCB Congener #146	300		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	610		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2500		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	16		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	78		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
74472-42-7	PCB Congener #158	87		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-72-6	PCB Congener #167	74		ng/kg	10	8/20/12 19:27	8/29/12 23:33	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
35065-30-6	PCB Congener #170	100		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	69		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
38411-25-5	PCB Congener #174	88		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-67-9	PCB Congener #178	120		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-64-6	PCB Congener #179	51		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	510		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	190		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-68-0	PCB Congener #187	670		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
41411-64-7	PCB Congener #190	54		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
40186-71-8	PCB Congener #201	53		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
2136-99-4	PCB Congener #202	190		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-76-0	PCB Congener #203	310		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
74472-53-0	PCB Congener #205	8.6	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
40186-72-9	PCB Congener #206	210		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
52663-77-1	PCB Congener #208	110		ng/kg	50	8/20/12 19:27	9/10/12 21:11	EPA 1668A
2051-24-3	PCB Congener #209	130		ng/kg	100	8/20/12 19:27	9/10/12 21:11	EPA 1668A



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## Physical Properties

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-462

Lab ID: E114502-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	4.3		%		3/27/12 10:36	3/28/12 9:18	ASB E100





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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-73-4	PCB Congener # 19	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	25	U, B-2	ng/kg	25	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
16606-02-3	PCB Congener # 31	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-90-5	PCB Congener # 37	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
36559-22-5	PCB Congener # 42	14		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70362-47-9	PCB Congener # 48	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	56		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
35693-99-3	PCB Congener # 52	29	U, B-2	ng/kg	29	8/20/12 19:27	8/30/12 0:37	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
41464-43-1	PCB Congener # 56	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
33025-41-1	PCB Congener # 60	23		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	120		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
74472-34-7	PCB Congener # 63	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
52663-58-8	PCB Congener # 64	33		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
32598-10-0	PCB Congener # 66	240		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A



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**PCB Congeners**

**Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
32598-13-3	PCB Congener # 77	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
52663-62-4	PCB Congener # 82	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	830		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
52663-60-2	PCB Congener # 84	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	180		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	31		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	180		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	39		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
32598-14-4	PCB Congener #105	260		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
70424-68-9	PCB Congener #107	76		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	250		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	16		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
31508-00-6	PCB Congener #118	1200		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
68194-12-7	PCB Congener #120	13		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
65510-44-3	PCB Congener #123	21		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	280		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2300		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-66-8	PCB Congener #130	89		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
38380-05-1	PCB Congener #132	67		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
35694-04-3	PCB Congener #133	53		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	320		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52712-04-6	PCB Congener #141	95		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
51908-16-8	PCB Congener #146	530		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	540		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3900		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	22		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	120		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
74472-42-7	PCB Congener #158	150		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-45-0	PCB Congener #164	59		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-72-6	PCB Congener #167	110		ng/kg	9.9	8/20/12 19:27	8/30/12 0:37	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
35065-30-6	PCB Congener #170	210		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	120		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
38411-25-5	PCB Congener #174	130		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-70-4	PCB Congener #177	190		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-67-9	PCB Congener #178	180		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	960		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	320		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-68-0	PCB Congener #187	1200		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
39635-31-9	PCB Congener #189	13	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
41411-64-7	PCB Congener #190	110		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
35694-08-7	PCB Congener #194	92		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-78-2	PCB Congener #195	65		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
42740-50-1	PCB Congener #196	68		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	350		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
40186-71-8	PCB Congener #201	65		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
2136-99-4	PCB Congener #202	290		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-76-0	PCB Congener #203	520		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
74472-53-0	PCB Congener #205	16	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
40186-72-9	PCB Congener #206	400		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
52663-77-1	PCB Congener #208	260		ng/kg	50	8/20/12 19:27	9/10/12 22:15	EPA 1668A
2051-24-3	PCB Congener #209	370		ng/kg	99	8/20/12 19:27	9/10/12 22:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-463

Lab ID: E114502-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	4.8		%		3/27/12 10:36	3/28/12 9:18	ASB E100





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
13029-08-8	PCB Congener # 4	3.5	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-73-4	PCB Congener # 19	2.0	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	29	U, B-2	ng/kg	29	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
16606-02-3	PCB Congener # 31	19	U, B-5	ng/kg	19	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	22		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
36559-22-5	PCB Congener # 42	20		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	81		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
35693-99-3	PCB Congener # 52	100		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
41464-43-1	PCB Congener # 56	23		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
33025-41-1	PCB Congener # 60	12		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	120		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
52663-58-8	PCB Congener # 64	47		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
32598-10-0	PCB Congener # 66	130		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
32598-13-3	PCB Congener # 77	6.9	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	180		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
52663-60-2	PCB Congener # 84	19		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	38		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	66		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	19		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	130		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
52663-61-3	PCB Congener # 92	37		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	81		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
32598-14-4	PCB Congener #105	54		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
70424-68-9	PCB Congener #107	13		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	130		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.8	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
31508-00-6	PCB Congener #118	170		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
65510-44-3	PCB Congener #123	4.1	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	240		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	86		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
51908-16-8	PCB Congener #146	60		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	150		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	310		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.8	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	21		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-72-6	PCB Congener #167	11		ng/kg	10	8/20/12 19:27	9/06/12 19:05	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
35065-30-6	PCB Congener #170	56		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	180		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	63		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-68-0	PCB Congener #187	150		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	52		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
2136-99-4	PCB Congener #202	38	J, Q-2, QR-2	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-76-0	PCB Congener #203	87		ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
40186-72-9	PCB Congener #206	120	U, B-2	ng/kg	120	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
52663-77-1	PCB Congener #208	46	J, Q-2	ng/kg	50	8/20/12 19:27	9/11/12 14:05	EPA 1668A
2051-24-3	PCB Congener #209	66	J, Q-2	ng/kg	100	8/20/12 19:27	9/11/12 14:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-475

Lab ID: E115201-01

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.1		%		3/27/12 10:36	3/28/12 9:18	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
13029-08-8	PCB Congener # 4	3.1	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-73-4	PCB Congener # 19	2.1	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	27	U, B-2	ng/kg	27	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
16606-02-3	PCB Congener # 31	13	U, B-5	ng/kg	13	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	18		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
36559-22-5	PCB Congener # 42	14		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	81		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	58		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
35693-99-3	PCB Congener # 52	89		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
41464-43-1	PCB Congener # 56	16		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	89		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
52663-58-8	PCB Congener # 64	34		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
32598-10-0	PCB Congener # 66	100		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
32598-13-3	PCB Congener # 77	5.4	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	150		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
52663-60-2	PCB Congener # 84	17		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	33		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	60		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	15		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	110		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
52663-61-3	PCB Congener # 92	26		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	57		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
32598-14-4	PCB Congener #105	42		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
70424-68-9	PCB Congener #107	12		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	120		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A



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Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.7	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
31508-00-6	PCB Congener #118	140		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
65510-44-3	PCB Congener #123	3.2	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	200		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	76		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	240		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A



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Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	1.9	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	13		ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-72-6	PCB Congener #167	7.0	J, Q-2	ng/kg	10	8/20/12 19:27	9/06/12 20:09	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	97		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-68-0	PCB Congener #187	120		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A



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## PCB Congeners

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
2136-99-4	PCB Congener #202	34	J, Q-2, QR-2	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-76-0	PCB Congener #203	58		ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
40186-72-9	PCB Congener #206	82	U, B-2	ng/kg	82	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
52663-77-1	PCB Congener #208	37	J, Q-2	ng/kg	50	8/20/12 19:27	9/11/12 15:09	EPA 1668A
2051-24-3	PCB Congener #209	71	J, Q-2	ng/kg	100	8/20/12 19:27	9/11/12 15:09	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-476

Lab ID: E115201-02

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 11/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		4/09/12 10:40	4/10/12 9:31	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	97.313		ng/kg	202.02		48.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	101.05		"	202.02		50.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	89.394		"	202.02		44.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	119.01		"	202.02		58.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	91.778		"	202.02		45.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	103.68		"	202.02		51.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	91.414		"	202.02		45.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	107.11		"	202.02		53.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	77.657		"	202.02		38.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	99.394		"	202.02		49.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	108.75		"	202.02		53.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	108.95		"	202.02		53.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	105.43		"	202.02		52.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	109.80		"	202.02		54.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	82.465		"	202.02		40.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	115.41		"	202.02		57.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	228.85		"	404.04		56.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	103.33		"	202.02		51.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	98.081		"	202.02		48.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	110.61		"	202.02		54.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	92.121		"	202.02		45.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	118.08		"	202.02		58.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	102.53		"	202.02		50.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	118.99		"	202.02		58.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	100.10		"	202.02		49.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	95.556		"	202.02		47.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	166.24		"	197.98		84.0	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	141.56		"	195.96		72.2	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	140.69		"	183.84		76.5	30-135			
PCB Congener # 1	2.0000	10	"							B-3, Q-2, J
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	2.9697	10	"							B-3, Q-2, J
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	11.677	10	"							B-4
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	1.7576	10	"							B-3, Q-2, J
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	U	10	"							U
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	12.828	10	"							B-4
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener # 58	U	10	ng/kg							U
PCB Congener # 59 and/or 62,75	U	10	"							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	11.535	10	"							B-4
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	10.141	10	"							B-4
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	4.0606	10	"							B-3, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	U	10	"							U
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	11.131	10	"							B-3





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	51	"							U
PCB Congener #129 and/or 138,160,163	U	51	"							U
PCB Congener #130	U	51	"							U
PCB Congener #131	U	51	"							U
PCB Congener #132	U	51	"							U
PCB Congener #133	U	51	"							U
PCB Congener #134 and/or 143	U	51	"							U
PCB Congener #135 and/or 151,154	U	51	"							U
PCB Congener #136	U	51	"							U
PCB Congener #137	U	51	"							U
PCB Congener #139 and/or 140	U	51	"							U
PCB Congener #141	U	51	"							U
PCB Congener #142	U	51	"							U
PCB Congener #144	U	51	"							U
PCB Congener #145	U	51	"							U
PCB Congener #146	U	51	"							U
PCB Congener #147 and/or 149	U	51	"							U
PCB Congener #148	U	51	"							U
PCB Congener #150	U	51	"							U
PCB Congener #152	U	51	"							U
PCB Congener #153 and/or 168	U	51	"							U
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	51	"							U
PCB Congener #159	U	51	"							U
PCB Congener #161	U	51	"							U
PCB Congener #162	U	51	"							U
PCB Congener #164	U	51	"							U
PCB Congener #165	U	51	"							U
PCB Congener #167	U	10	"							U
PCB Congener #169	U	51	"							U
PCB Congener #170	U	51	"							U
PCB Congener #171 and/or 173	U	51	"							U
PCB Congener #172	U	51	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 09/10/12

PCB Congener #174	U	51	ng/kg							U
PCB Congener #175	U	51	"							U
PCB Congener #176	U	51	"							U
PCB Congener #177	U	51	"							U
PCB Congener #178	U	51	"							U
PCB Congener #179	U	51	"							U
PCB Congener #180 and/or 193	U	51	"							U
PCB Congener #181	U	51	"							U
PCB Congener #182	U	51	"							U
PCB Congener #183 and/or 185	U	51	"							U
PCB Congener #184	U	51	"							U
PCB Congener #186	U	51	"							U
PCB Congener #187	U	51	"							U
PCB Congener #188	U	51	"							U
PCB Congener #189	U	51	"							U
PCB Congener #190	U	51	"							U
PCB Congener #191	U	51	"							U
PCB Congener #192	U	51	"							U
PCB Congener #194	U	51	"							U
PCB Congener #195	U	51	"							U
PCB Congener #196	U	51	"							U
PCB Congener #197 and/or 200	U	51	"							U
PCB Congener #198 and/or 199	U	51	"							U
PCB Congener #201	U	51	"							U
PCB Congener #202	U	51	"							U
PCB Congener #203	U	51	"							U
PCB Congener #204	U	51	"							U
PCB Congener #205	U	51	"							U
PCB Congener #206	28.283	51	"							B-4, Q-2, J
PCB Congener #207	U	51	"							U
PCB Congener #208	U	51	"							U
PCB Congener #209	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**LCS (1208113-BS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	80.101		ng/kg	202.02		39.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	84.869		"	202.02		42.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	90.909		"	202.02		45.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	96.646		"	202.02		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	100.20		"	202.02		49.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	106.93		"	202.02		52.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	102.42		"	202.02		50.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	109.60		"	202.02		54.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	70.465		"	202.02		34.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	98.081		"	202.02		48.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	101.62		"	202.02		50.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.47		"	202.02		50.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	99.838		"	202.02		49.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	93.212		"	202.02		46.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	74.061		"	202.02		36.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	96.626		"	202.02		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	199.05		"	404.04		49.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	101.76		"	202.02		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	79.697		"	202.02		39.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	132.22		"	202.02		65.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	99.980		"	202.02		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	145.45		"	202.02		72.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	84.970		"	202.02		42.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	210.20		"	202.02		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	90.465		"	202.02		44.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	115.86		"	202.02		57.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	170.75		"	197.98		86.2	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	146.48		"	195.96		74.8	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	135.54		"	183.84		73.7	40-125			
PCB Congener # 1	105.98	10	"	101.01		105	50-150			
PCB Congener # 3	101.84	10	"	101.01		101	50-150			
PCB Congener # 4	99.212	10	"	101.01		98.2	50-150			
PCB Congener # 15	99.657	10	"	101.01		98.7	50-150			
PCB Congener # 19	99.455	10	"	101.01		98.5	50-150			
PCB Congener # 37	84.889	10	"	101.01		84.0	50-150			
PCB Congener # 54	98.788	10	"	101.01		97.8	50-150			
PCB Congener # 77	95.818	10	"	101.01		94.9	50-150			
PCB Congener # 81	94.667	10	"	101.01		93.7	50-150			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

<b>LCS (1208113-BS1)</b>			Prepared: 08/20/12 Analyzed: 08/29/12							
PCB Congener #104	94.162	10	ng/kg	101.01		93.2	50-150			
PCB Congener #105	100.65	10	"	101.01		99.6	50-150			
PCB Congener #114	94.263	10	"	101.01		93.3	50-150			
PCB Congener #118	115.86	10	"	101.01		115	50-150			
PCB Congener #123	98.020	10	"	101.01		97.0	50-150			
PCB Congener #126	82.808	10	"	101.01		82.0	50-150			
PCB Congener #155	94.646	10	"	101.01		93.7	50-150			
PCB Congener #156 and/or 157	207.05	10	"	202.02		102	50-150			
PCB Congener #167	96.848	10	"	101.01		95.9	50-150			
PCB Congener #169	97.374	51	"	101.01		96.4	50-150			
PCB Congener #188	96.162	51	"	101.01		95.2	50-150			
PCB Congener #189	119.35	10	"	101.01		118	50-150			
PCB Congener #202	94.747	51	"	101.01		93.8	50-150			
PCB Congener #205	97.253	10	"	101.01		96.3	50-150			
PCB Congener #206	130.53	10	"	101.01		129	50-150			
PCB Congener #208	107.72	10	"	101.01		107	50-150			
PCB Congener #209	118.69	100	"	101.01		118	50-150			

**LCS Dup (1208113-BSD1)** Prepared: 08/20/12 Analyzed: 08/29/12

<b>EPA 1668A</b>										
Surrogate: <sup>13</sup> C PCB Congener # 1L	89.135		ng/kg	201.21		44.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	73.682		"	201.21		36.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	97.887		"	201.21		48.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	100.82		"	201.21		50.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	95.070		"	201.21		47.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	95.010		"	201.21		47.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	93.883		"	201.21		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	83.843		"	201.21		41.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	62.515		"	201.21		31.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	84.789		"	201.21		42.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	84.467		"	201.21		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	84.406		"	201.21		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	84.366		"	201.21		41.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	76.600		"	201.21		38.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	60.825		"	201.21		30.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	89.437		"	201.21		44.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	157.57		"	402.41		39.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	78.491		"	201.21		39.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	80.080		"	201.21		39.8	30-140			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**LCS Dup (1208113-BSD1)**

Prepared: 08/20/12 Analyzed: 09/10/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	122.13		ng/kg	201.21		60.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	118.57		"	201.21		58.9	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	117.10		"	201.21		58.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	75.453		"	201.21		37.5	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	188.23		"	201.21		93.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	90.262		"	201.21		44.9	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	201.73		"	201.21		100	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	154.14		"	197.18		78.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	123.32		"	195.17		63.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	133.94		"	183.10		73.2	40-125			
PCB Congener # 1	100.08	10	"	100.60		99.5	50-150	5.73	30	
PCB Congener # 3	97.565	10	"	100.60		97.0	50-150	4.29	30	
PCB Congener # 4	95.755	10	"	100.60		95.2	50-150	3.55	30	
PCB Congener # 15	114.99	10	"	100.60		114	50-150	14.3	30	
PCB Congener # 19	97.867	10	"	100.60		97.3	50-150	1.61	30	
PCB Congener # 37	90.302	10	"	100.60		89.8	50-150	6.18	30	
PCB Congener # 54	93.219	10	"	100.60		92.7	50-150	5.80	30	
PCB Congener # 77	100.16	10	"	100.60		99.6	50-150	4.43	30	
PCB Congener # 81	97.545	10	"	100.60		97.0	50-150	3.00	30	
PCB Congener #104	89.598	10	"	100.60		89.1	50-150	4.97	30	
PCB Congener #105	97.243	10	"	100.60		96.7	50-150	3.44	30	
PCB Congener #114	90.785	10	"	100.60		90.2	50-150	3.76	30	
PCB Congener #118	107.22	10	"	100.60		107	50-150	7.74	30	
PCB Congener #123	94.427	10	"	100.60		93.9	50-150	3.73	30	
PCB Congener #126	84.326	10	"	100.60		83.8	50-150	1.82	30	
PCB Congener #155	85.412	10	"	100.60		84.9	50-150	10.3	30	
PCB Congener #156 and/or 157	183.76	10	"	201.21		91.3	50-150	11.9	30	
PCB Congener #167	92.032	10	"	100.60		91.5	50-150	5.10	30	
PCB Congener #169	109.66	50	"	100.60		109	50-150	11.9	30	
PCB Congener #188	82.294	50	"	100.60		81.8	50-150	15.5	30	
PCB Congener #189	108.73	10	"	100.60		108	50-150	9.31	30	
PCB Congener #202	97.586	50	"	100.60		97.0	50-150	2.95	30	
PCB Congener #205	89.658	10	"	100.60		89.1	50-150	8.13	30	
PCB Congener #206	122.54	10	"	100.60		122	50-150	6.31	30	
PCB Congener #208	117.57	10	"	100.60		117	50-150	8.74	30	
PCB Congener #209	131.45	20	"	100.60		131	50-150	10.2	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Duplicate (1208113-DUP1)**

**Source: E114502-01**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	83.313		ng/kg	198.41		42.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	96.250		"	198.41		48.5	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	76.806		"	198.41		38.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	113.49		"	198.41		57.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	58.810		"	198.41		29.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	116.17		"	198.41		58.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	113.89		"	198.41		57.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	121.35		"	198.41		61.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	85.337		"	198.41		43.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	101.45		"	198.41		51.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	109.15		"	198.41		55.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	114.21		"	198.41		57.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	119.56		"	198.41		60.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	117.78		"	198.41		59.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	84.067		"	198.41		42.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	120.87		"	198.41		60.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	242.18		"	396.83		61.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	113.99		"	198.41		57.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	81.548		"	198.41		41.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	200.60		"	198.41		101	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	130.65		"	198.41		65.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	205.26		"	198.41		103	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	104.66		"	198.41		52.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	222.92		"	198.41		112	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	130.95		"	198.41		66.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	171.13		"	198.41		86.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	163.49		"	194.44		84.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	149.31		"	192.46		77.6	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	137.02		"	180.56		75.9	30-135			
PCB Congener # 1	U	9.9	"		U				30	U
PCB Congener # 2	U	9.9	"		U				30	U
PCB Congener # 3	U	9.9	"		U				30	U
PCB Congener # 4	U	9.9	"		3.8370				30	U
PCB Congener # 5	U	9.9	"		U				30	U
PCB Congener # 6	U	9.9	"		U				30	U
PCB Congener # 7	U	9.9	"		U				30	U
PCB Congener # 8	U	9.9	"		U				30	U
PCB Congener # 9	U	9.9	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Duplicate (1208113-DUP1)**

**Source: E114502-01**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener # 10	U	9.9	ng/kg		U				30	U
PCB Congener # 11	U	9.9	"		U				30	U
PCB Congener # 12 and/or 13	U	9.9	"		U				30	U
PCB Congener # 14	U	9.9	"		U				30	U
PCB Congener # 15	U	9.9	"		U				30	U
PCB Congener # 16	U	9.9	"		U				30	U
PCB Congener # 17	10.952	9.9	"		U				30	
PCB Congener # 18 and/or 30	U	15	"		U				30	B-5, U
PCB Congener # 19	3.1151	9.9	"		U				30	J, Q-2
PCB Congener # 20 and/or 28	69.980	9.9	"		59.066			16.9	30	
PCB Congener # 21 and/or 33	U	9.9	"		U				30	U
PCB Congener # 22	U	9.9	"		U				30	U
PCB Congener # 23	U	9.9	"		U				30	U
PCB Congener # 24	U	9.9	"		U				30	U
PCB Congener # 25	U	9.9	"		U				30	U
PCB Congener # 26 and/or 29	U	9.9	"		U				30	U
PCB Congener # 27	U	9.9	"		U				30	U
PCB Congener # 31	U	18	"		U				30	B-5, U
PCB Congener # 32	U	9.9	"		U				30	U
PCB Congener # 34	U	9.9	"		U				30	U
PCB Congener # 35	U	9.9	"		U				30	U
PCB Congener # 36	U	9.9	"		U				30	U
PCB Congener # 37	U	9.9	"		U				30	U
PCB Congener # 38	U	9.9	"		U				30	U
PCB Congener # 39	U	9.9	"		U				30	U
PCB Congener # 40 and/or 41,71	22.440	9.9	"		18.250			20.6	30	
PCB Congener # 42	41.944	9.9	"		35.129			17.7	30	
PCB Congener # 43	U	9.9	"		U				30	U
PCB Congener # 44 and/or 47,65	206.65	9.9	"		218.15			5.42	30	
PCB Congener # 45 and/or 51	U	9.9	"		U				30	U
PCB Congener # 46	U	9.9	"		U				30	U
PCB Congener # 48	14.167	9.9	"		12.883			9.49	30	
PCB Congener # 49 and/or 69	192.78	9.9	"		158.03			19.8	30	
PCB Congener # 50 and/or 53	U	9.9	"		U				30	U
PCB Congener # 52	283.49	9.9	"		251.99			11.8	30	
PCB Congener # 54	U	9.9	"		U				30	U
PCB Congener # 55	U	9.9	"		U				30	U
PCB Congener # 56	14.246	9.9	"		12.624			12.1	30	
PCB Congener # 57	U	9.9	"		U				30	U
PCB Congener # 58	U	9.9	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Duplicate (1208113-DUP1)**

**Source: E114502-01**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener # 59 and/or 62,75	22.560	9.9	ng/kg		20.596			9.10	30	
PCB Congener # 60	34.484	9.9	"		26.720			25.4	30	
PCB Congener # 61 and/or 70,74,76	227.76	9.9	"		170.85			28.6	30	
PCB Congener # 63	14.623	9.9	"		13.877			5.24	30	
PCB Congener # 64	94.623	9.9	"		81.610			14.8	30	
PCB Congener # 66	335.26	9.9	"		283.02			16.9	30	
PCB Congener # 67	U	9.9	"		U				30	U
PCB Congener # 68	U	9.9	"		U				30	U
PCB Congener # 72	U	9.9	"		U				30	U
PCB Congener # 73	U	9.9	"		U				30	U
PCB Congener # 77	5.7143	9.9	"		6.0437			5.60	30	J, Q-2
PCB Congener # 78	U	9.9	"		U				30	U
PCB Congener # 79	U	9.9	"		U				30	U
PCB Congener # 80	U	9.9	"		U				30	U
PCB Congener # 81	U	9.9	"		U				30	U
PCB Congener # 82	U	9.9	"		U				30	U
PCB Congener # 83 and/or 99	731.65	9.9	"		641.41			13.1	30	
PCB Congener # 84	20.020	9.9	"		18.469			8.06	30	
PCB Congener # 85 and/or 116,117	169.96	9.9	"		155.65			8.79	30	
PCB Congener # 86 and/or 87,97,109,119,125	218.43	9.9	"		196.86			10.4	30	
PCB Congener # 88 and/or 91	66.845	9.9	"		60.278			10.3	30	
PCB Congener # 89	U	9.9	"		U				30	U
PCB Congener # 90 and/or 101,113	690.99	9.9	"		606.58			13.0	30	
PCB Congener # 92	127.38	9.9	"		120.08			5.90	30	
PCB Congener # 93 and/or 95,98,100,102	261.67	9.9	"		217.91			18.2	30	
PCB Congener # 94	U	9.9	"		U				30	U
PCB Congener # 96	U	9.9	"		U				30	U
PCB Congener #103	11.310	9.9	"		U				30	
PCB Congener #104	U	9.9	"		U				30	U
PCB Congener #105	220.46	9.9	"		184.51			17.8	30	
PCB Congener #106	U	9.9	"		U				30	U
PCB Congener #107	74.107	9.9	"		65.248			12.7	30	
PCB Congener #108 and/or 124	U	9.9	"		U				30	U
PCB Congener #110 and/or 115	456.01	9.9	"		411.41			10.3	30	
PCB Congener #111	U	9.9	"		U				30	U
PCB Congener #112	U	9.9	"		U				30	U
PCB Congener #114	14.365	9.9	"		11.769			19.9	30	
PCB Congener #118	904.19	9.9	"		792.47			13.2	30	
PCB Congener #120	10.377	9.9	"		9.9602			4.10	30	





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**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Duplicate (1208113-DUP1)**

**Source: E114502-01**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener #121	U	9.9	ng/kg		U				30	U
PCB Congener #122	U	9.9	"		U				30	U
PCB Congener #123	14.563	9.9	"		11.829			20.7	30	
PCB Congener #126	U	9.9	"		U				30	U
PCB Congener #127	U	9.9	"		U				30	U
PCB Congener #128 and/or 166	192.56	50	"		179.62			6.95	30	
PCB Congener #129 and/or 138,160,163	1679.9	50	"		1354.1			21.5	30	
PCB Congener #130	60.516	50	"		64.115			5.78	30	
PCB Congener #131	U	50	"		U				30	U
PCB Congener #132	63.294	50	"		66.899			5.54	30	
PCB Congener #133	U	50	"		U				30	U
PCB Congener #134 and/or 143	U	50	"		U				30	U
PCB Congener #135 and/or 151,154	420.63	50	"		387.48			8.21	30	
PCB Congener #136	U	50	"		U				30	U
PCB Congener #137	U	50	"		U				30	U
PCB Congener #139 and/or 140	U	50	"		U				30	U
PCB Congener #141	86.706	50	"		88.867			2.46	30	
PCB Congener #142	U	50	"		U				30	U
PCB Congener #144	U	50	"		U				30	U
PCB Congener #145	U	50	"		U				30	U
PCB Congener #146	375.40	50	"		333.70			11.8	30	
PCB Congener #147 and/or 149	777.48	50	"		685.79			12.5	30	
PCB Congener #148	U	50	"		U				30	U
PCB Congener #150	U	50	"		U				30	U
PCB Congener #152	U	50	"		U				30	U
PCB Congener #153 and/or 168	2681.1	50	"		1838.4			37.3	30	J, QM-4
PCB Congener #155	20.595	9.9	"		18.310			11.7	30	
PCB Congener #156 and/or 157	93.671	9.9	"		80.974			14.5	30	
PCB Congener #158	104.07	50	"		89.264			15.3	30	
PCB Congener #159	U	50	"		U				30	U
PCB Congener #161	U	50	"		U				30	U
PCB Congener #162	U	50	"		U				30	U
PCB Congener #164	60.417	50	"		50.795			17.3	30	
PCB Congener #165	U	50	"		U				30	U
PCB Congener #167	72.936	9.9	"		61.014			17.8	30	
PCB Congener #169	U	50	"		U				30	U
PCB Congener #170	196.33	50	"		169.18			14.9	30	
PCB Congener #171 and/or 173	94.940	50	"		75.348			23.0	30	
PCB Congener #172	U	50	"		U				30	U
PCB Congener #174	152.38	50	"		139.16			9.07	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Duplicate (1208113-DUP1)**

**Source: E114502-01**

Prepared: 08/20/12 Analyzed: 09/10/12

PCB Congener #175	U	50	ng/kg		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	168.55	50	"		141.45			17.5	30	
PCB Congener #178	138.69	50	"		118.09			16.0	30	
PCB Congener #179	84.226	50	"		73.757			13.3	30	
PCB Congener #180 and/or 193	718.75	50	"		572.47			22.7	30	
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	235.22	50	"		206.26			13.1	30	
PCB Congener #184	U	50	"		U				30	U
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	858.83	50	"		658.45			26.4	30	
PCB Congener #188	U	50	"		U				30	U
PCB Congener #189	U	50	"		8.6481				30	U
PCB Congener #190	55.853	50	"		57.455			2.83	30	
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	66.964	50	"		63.618			5.12	30	
PCB Congener #195	U	50	"		U				30	U
PCB Congener #196	65.079	50	"		57.654			12.1	30	
PCB Congener #197 and/or 200	U	50	"		U				30	U
PCB Congener #198 and/or 199	309.72	50	"		286.08			7.94	30	
PCB Congener #201	51.984	50	"		53.777			3.39	30	
PCB Congener #202	230.95	50	"		183.00			23.2	30	
PCB Congener #203	422.52	50	"		355.77			17.2	30	
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	U	50	"		8.8469				30	U
PCB Congener #206	475.79	50	"		409.34			15.0	30	
PCB Congener #207	U	50	"		U				30	U
PCB Congener #208	275.89	50	"		229.22			18.5	30	
PCB Congener #209	474.01	99	"		378.33			22.5	30	



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0021, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**MRL Verification (1208113-PS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	84.626		ng/kg	202.02		41.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	78.869		"	202.02		39.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	88.646		"	202.02		43.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	90.950		"	202.02		45.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	87.596		"	202.02		43.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	97.394		"	202.02		48.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	96.909		"	202.02		48.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	93.293		"	202.02		46.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	63.273		"	202.02		31.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	92.384		"	202.02		45.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	85.798		"	202.02		42.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	84.929		"	202.02		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	89.576		"	202.02		44.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	83.778		"	202.02		41.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	63.010		"	202.02		31.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	76.061		"	202.02		37.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	154.89		"	404.04		38.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	87.273		"	202.02		43.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	69.293		"	202.02		34.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	88.889		"	202.02		44.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	122.14		"	202.02		60.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	71.313		"	202.02		35.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	79.131		"	202.02		39.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	209.13		"	202.02		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	85.919		"	202.02		42.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	205.35		"	202.02		102	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	155.15		"	197.98		78.4	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	135.01		"	195.96		68.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	127.76		"	183.84		69.5	40-125			
PCB Congener # 1	12.182	10	"	10.101		121	30-170			MRL-4
PCB Congener # 3	11.919	10	"	10.101		118	30-170			MRL-4
PCB Congener # 4	13.131	10	"	10.101		130	30-170			MRL-4
PCB Congener # 15	14.242	10	"	10.101		141	30-170			MRL-4
PCB Congener # 19	10.323	10	"	10.101		102	30-170			MRL-4
PCB Congener # 37	11.657	10	"	10.101		115	30-170			MRL-4
PCB Congener # 54	9.7172	10	"	10.101		96.2	30-170			MRL-4, Q-2, J
PCB Congener # 77	11.879	10	"	10.101		118	30-170			MRL-4
PCB Congener # 81	12.687	10	"	10.101		126	30-170			MRL-4



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**MRL Verification (1208113-PS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener #104	7.9192	10	ng/kg	10.101		78.4	30-170			MRL-4, Q-2, J
PCB Congener #105	14.384	10	"	10.101		142	30-170			MRL-4
PCB Congener #114	9.1919	10	"	10.101		91.0	30-170			MRL-4, Q-2, J
PCB Congener #118	23.051	10	"	10.101		228	30-170			MRL-4, QR-2
PCB Congener #123	9.6970	10	"	10.101		96.0	30-170			MRL-4, Q-2, J
PCB Congener #126	10.424	10	"	10.101		103	30-170			MRL-4
PCB Congener #155	8.6263	10	"	10.101		85.4	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	19.172	10	"	20.202		94.9	30-170			MRL-4
PCB Congener #167	9.4141	10	"	10.101		93.2	30-170			MRL-4, Q-2, J
PCB Congener #169	11.818	51	"	10.101		117	30-170			MRL-4, Q-2, J
PCB Congener #188	6.9697	51	"	10.101		69.0	30-170			MRL-4, Q-2, J
PCB Congener #189	12.545	10	"	10.101		124	30-170			MRL-4
PCB Congener #202	18.687	51	"	10.101		185	30-170			MRL-4, Q-2, QR-2, J
PCB Congener #205	8.7879	10	"	10.101		87.0	30-170			MRL-4, Q-2, J
PCB Congener #206	40.465	10	"	10.101		401	30-170			MRL-4, QR-2
PCB Congener #208	15.980	10	"	10.101		158	30-170			MRL-4
PCB Congener #209	34.384	20	"	20.242		170	30-170			MRL-4



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**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203175 - E 3550 Tissue**

**Blank (1203175-BLK1)** Prepared: 03/27/12 Analyzed: 03/28/12

**ASB E100**

% Lipids 0.0000 %

**Duplicate (1203175-DUP1)** Source: E114502-03 Prepared: 03/27/12 Analyzed: 03/28/12

**ASB E100**

% Lipids 4.5000 % 4.3000 4.55 20

**Batch 1204040 - E 3550 Tissue**

**Blank (1204040-BLK1)** Prepared: 04/09/12 Analyzed: 04/10/12

**ASB E100**

% Lipids 0.0000 %

**Duplicate (1204040-DUP1)** Source: E115201-02RE1 Prepared: 04/09/12 Analyzed: 04/10/12

**ASB E100**

% Lipids 1.4000 % 1.2000 15.4 20



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- B-5 Qualitative evidence of contamination in the blank at a concentration less than the MDL.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-4 Matrix Precision outside method control limits
- QR-2 MRL verification recovery greater than upper control limits.



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

October 25, 2012

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa  
Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-417	E114503-01	Fish	9/19/11 12:00	11/1/11 10:00
11-418	E114503-02	Fish	9/19/11 12:00	11/1/11 10:00
11-419	E114503-03	Fish	9/19/11 12:00	11/1/11 10:00



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- B-5 Qualitative evidence of contamination in the blank at a concentration less than the MDL.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.

### ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
13029-08-8	PCB Congener # 4	4.5	J, Q-2	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
37680-66-3	PCB Congener # 17	13		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	19	U, B-5	ng/kg	19	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-73-4	PCB Congener # 19	2.7	J, Q-2	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	95		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-85-8	PCB Congener # 22	14		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
16606-02-3	PCB Congener # 31	31	U, B-5	ng/kg	31	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	18		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
36559-22-5	PCB Congener # 42	44		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	250		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70362-47-9	PCB Congener # 48	11		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	210		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
35693-99-3	PCB Congener # 52	190		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
41464-43-1	PCB Congener # 56	20		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	26		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
33025-41-1	PCB Congener # 60	50		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	330		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
74472-34-7	PCB Congener # 63	20		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
52663-58-8	PCB Congener # 64	130		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
32598-10-0	PCB Congener # 66	490		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
32598-13-3	PCB Congener # 77	4.0	J, Q-2	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
52663-62-4	PCB Congener # 82	16		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	940		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
52663-60-2	PCB Congener # 84	19		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	280		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	300		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	94		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	560		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
52663-61-3	PCB Congener # 92	200		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	130		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
32598-14-4	PCB Congener #105	340		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	13		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	570		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	21		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
31508-00-6	PCB Congener #118	1300		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
68194-12-7	PCB Congener #120	13		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
65510-44-3	PCB Congener #123	26		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	380		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2500		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-66-8	PCB Congener #130	100		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
38380-05-1	PCB Congener #132	110		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
35694-04-3	PCB Congener #133	57		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	550		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
35694-06-5	PCB Congener #137	100		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
51908-16-8	PCB Congener #146	560		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	750		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3100		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	44		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	210		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
74472-42-7	PCB Congener #158	190		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-45-0	PCB Congener #164	110		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-72-6	PCB Congener #167	110		ng/kg	10	8/20/12 19:27	8/30/12 1:41	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
35065-30-6	PCB Congener #170	560		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	200		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-74-8	PCB Congener #172	130		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
38411-25-5	PCB Congener #174	330		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-70-4	PCB Congener #177	170		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-67-9	PCB Congener #178	170		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-64-6	PCB Congener #179	59		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1700		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	540		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-48-3	PCB Congener #184	75		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-68-0	PCB Congener #187	1400		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
39635-31-9	PCB Congener #189	28	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
41411-64-7	PCB Congener #190	100		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
35694-08-7	PCB Congener #194	150		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-78-2	PCB Congener #195	100		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
42740-50-1	PCB Congener #196	140		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	390		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
40186-71-8	PCB Congener #201	75		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
2136-99-4	PCB Congener #202	200		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-76-0	PCB Congener #203	490		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
74472-53-0	PCB Congener #205	17	J, Q-2	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
40186-72-9	PCB Congener #206	520		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
52663-77-1	PCB Congener #208	260		ng/kg	50	8/20/12 19:27	9/10/12 23:19	EPA 1668A
2051-24-3	PCB Congener #209	480		ng/kg	100	8/20/12 19:27	9/10/12 23:19	EPA 1668A





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-417

Lab ID: E114503-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	5.9		%		3/27/12 10:36	3/28/12 9:18	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
13029-08-8	PCB Congener # 4	3.8	J, Q-2	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	33		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-73-4	PCB Congener # 19	2.5	J, Q-2	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	82		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-85-8	PCB Congener # 22	17		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	11		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
16606-02-3	PCB Congener # 31	41	U, B-5	ng/kg	41	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-90-5	PCB Congener # 37	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	37		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
36559-22-5	PCB Congener # 42	83		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	360		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	13		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70362-47-9	PCB Congener # 48	22		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	280		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
35693-99-3	PCB Congener # 52	270		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
41464-43-1	PCB Congener # 56	24		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	21		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
33025-41-1	PCB Congener # 60	40		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	270		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
74472-34-7	PCB Congener # 63	15		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
52663-58-8	PCB Congener # 64	160		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
32598-10-0	PCB Congener # 66	450		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
73575-52-7	PCB Congener # 68	10		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
32598-13-3	PCB Congener # 77	7.5	J, Q-2	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
52663-62-4	PCB Congener # 82	34		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	780		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
52663-60-2	PCB Congener # 84	33		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	190		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	330		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	75		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	430		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
52663-61-3	PCB Congener # 92	130		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	170		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
32598-14-4	PCB Congener #105	230		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
70424-68-9	PCB Congener #107	76		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	520		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	14		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
31508-00-6	PCB Congener #118	890		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
65510-44-3	PCB Congener #123	18		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	180		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1200		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-66-8	PCB Congener #130	66		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
38380-05-1	PCB Congener #132	130		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	280		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52712-04-6	PCB Congener #141	97		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
51908-16-8	PCB Congener #146	260		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	510		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1500		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	20		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	96		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
74472-42-7	PCB Congener #158	92		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-45-0	PCB Congener #164	51		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-72-6	PCB Congener #167	58		ng/kg	9.9	8/20/12 19:27	9/06/12 18:01	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
35065-30-6	PCB Congener #170	170		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	56		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
38411-25-5	PCB Congener #174	140		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-70-4	PCB Congener #177	88		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-67-9	PCB Congener #178	68		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	480		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	130		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-68-0	PCB Congener #187	440		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
39635-31-9	PCB Congener #189	12	J, Q-2	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
35694-08-7	PCB Congener #194	76		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	180		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
2136-99-4	PCB Congener #202	79		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-76-0	PCB Congener #203	190		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
40186-72-9	PCB Congener #206	170		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
52663-77-1	PCB Congener #208	82		ng/kg	50	8/20/12 19:27	9/11/12 0:22	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	99	8/20/12 19:27	9/11/12 0:22	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-418

Lab ID: E114503-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	7.9		%		3/27/12 10:36	3/28/12 9:18	ASB E100





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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
13029-08-8	PCB Congener # 4	3.1	J, Q-2	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	13	U, B-5	ng/kg	13	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	81		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-85-8	PCB Congener # 22	16		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
16606-02-3	PCB Congener # 31	23	U, B-5	ng/kg	23	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	16		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
36559-22-5	PCB Congener # 42	46		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	250		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	190		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
35693-99-3	PCB Congener # 52	140		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
41464-43-1	PCB Congener # 56	17		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	26		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
33025-41-1	PCB Congener # 60	39		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	280		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-34-7	PCB Congener # 63	18		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-58-8	PCB Congener # 64	120		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
32598-10-0	PCB Congener # 66	440		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
32598-13-3	PCB Congener # 77	3.4	J, Q-2	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-62-4	PCB Congener # 82	14		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1200		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-60-2	PCB Congener # 84	15		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	280		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	300		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	97		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	510		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-61-3	PCB Congener # 92	240		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
32598-14-4	PCB Congener #105	320		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
70424-68-9	PCB Congener #107	100		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	580		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	21		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
31508-00-6	PCB Congener #118	1300		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
68194-12-7	PCB Congener #120	18		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
65510-44-3	PCB Congener #123	26		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	330		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2500		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-66-8	PCB Congener #130	85		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
61798-70-7	PCB Congener #131	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38380-05-1	PCB Congener #132	57		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
35694-04-3	PCB Congener #133	55		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	450		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38411-22-2	PCB Congener #136	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
35694-06-5	PCB Congener #137	100		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	43		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52712-04-6	PCB Congener #141	240		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
41411-61-4	PCB Congener #142	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
68194-14-9	PCB Congener #144	23		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-40-5	PCB Congener #145	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
51908-16-8	PCB Congener #146	620		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	550		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-41-6	PCB Congener #148	11		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
68194-08-1	PCB Congener #150	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
68194-09-2	PCB Congener #152	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3100		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	42		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	200		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-42-7	PCB Congener #158	210		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
39635-35-3	PCB Congener #159	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-43-8	PCB Congener #161	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
39635-34-2	PCB Congener #162	10		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-45-0	PCB Congener #164	110		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-46-1	PCB Congener #165	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-72-6	PCB Congener #167	110		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
32774-16-6	PCB Congener #169	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
35065-30-6	PCB Congener #170	630		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	160		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-74-8	PCB Congener #172	130		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
38411-25-5	PCB Congener #174	220		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
40186-70-7	PCB Congener #175	30		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-65-7	PCB Congener #176	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-70-4	PCB Congener #177	78		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-67-9	PCB Congener #178	190		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-64-6	PCB Congener #179	40		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1500		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-47-2	PCB Congener #181	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
60145-23-5	PCB Congener #182	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	490		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-48-3	PCB Congener #184	58		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-49-4	PCB Congener #186	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-68-0	PCB Congener #187	990		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74487-85-7	PCB Congener #188	2.9	J, Q-2	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
39635-31-9	PCB Congener #189	27		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
41411-64-7	PCB Congener #190	150		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	25		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-51-8	PCB Congener #192	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
35694-08-7	PCB Congener #194	210		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-78-2	PCB Congener #195	130		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
42740-50-1	PCB Congener #196	190		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	26		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	640		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
40186-71-8	PCB Congener #201	66		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
2136-99-4	PCB Congener #202	190		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-76-0	PCB Congener #203	690		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-52-9	PCB Congener #204	10	U	ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
74472-53-0	PCB Congener #205	24		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
40186-72-9	PCB Congener #206	630		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-79-3	PCB Congener #207	48		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
52663-77-1	PCB Congener #208	280		ng/kg	10	8/20/12 19:27	9/11/12 16:13	EPA 1668A
2051-24-3	PCB Congener #209	620		ng/kg	20	8/20/12 19:27	9/11/12 16:13	EPA 1668A



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## Physical Properties

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-419

Lab ID: E114503-03

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.5		%		3/27/12 10:36	3/28/12 9:18	ASB E100





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	97.313		ng/kg	202.02		48.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	101.05		"	202.02		50.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	89.394		"	202.02		44.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	119.01		"	202.02		58.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	91.778		"	202.02		45.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	103.68		"	202.02		51.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	91.414		"	202.02		45.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	107.11		"	202.02		53.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	77.657		"	202.02		38.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	99.394		"	202.02		49.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	108.75		"	202.02		53.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	108.95		"	202.02		53.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	105.43		"	202.02		52.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	109.80		"	202.02		54.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	82.465		"	202.02		40.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	115.41		"	202.02		57.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	228.85		"	404.04		56.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	103.33		"	202.02		51.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	98.081		"	202.02		48.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	110.61		"	202.02		54.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	92.121		"	202.02		45.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	118.08		"	202.02		58.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	102.53		"	202.02		50.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	118.99		"	202.02		58.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	100.10		"	202.02		49.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	95.556		"	202.02		47.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	166.24		"	197.98		84.0	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	141.56		"	195.96		72.2	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	140.69		"	183.84		76.5	30-135			
PCB Congener # 1	2.0000	10	"							B-3, Q-2, J
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	2.9697	10	"							B-3, Q-2, J
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	11.677	10	"							B-4
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	1.7576	10	"							B-3, Q-2, J
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	U	10	"							U
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	12.828	10	"							B-4
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener # 58	U	10	ng/kg							U
PCB Congener # 59 and/or 62,75	U	10	"							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	11.535	10	"							B-4
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	10.141	10	"							B-4
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	4.0606	10	"							B-3, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	U	10	"							U
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	11.131	10	"							B-3



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	51	"							U
PCB Congener #129 and/or 138,160,163	U	51	"							U
PCB Congener #130	U	51	"							U
PCB Congener #131	U	51	"							U
PCB Congener #132	U	51	"							U
PCB Congener #133	U	51	"							U
PCB Congener #134 and/or 143	U	51	"							U
PCB Congener #135 and/or 151,154	U	51	"							U
PCB Congener #136	U	51	"							U
PCB Congener #137	U	51	"							U
PCB Congener #139 and/or 140	U	51	"							U
PCB Congener #141	U	51	"							U
PCB Congener #142	U	51	"							U
PCB Congener #144	U	51	"							U
PCB Congener #145	U	51	"							U
PCB Congener #146	U	51	"							U
PCB Congener #147 and/or 149	U	51	"							U
PCB Congener #148	U	51	"							U
PCB Congener #150	U	51	"							U
PCB Congener #152	U	51	"							U
PCB Congener #153 and/or 168	U	51	"							U
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	51	"							U
PCB Congener #159	U	51	"							U
PCB Congener #161	U	51	"							U
PCB Congener #162	U	51	"							U
PCB Congener #164	U	51	"							U
PCB Congener #165	U	51	"							U
PCB Congener #167	U	10	"							U
PCB Congener #169	U	51	"							U
PCB Congener #170	U	51	"							U
PCB Congener #171 and/or 173	U	51	"							U
PCB Congener #172	U	51	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**Blank (1208113-BLK1)**

Prepared: 08/20/12 Analyzed: 09/10/12

PCB Congener #174	U	51	ng/kg							U
PCB Congener #175	U	51	"							U
PCB Congener #176	U	51	"							U
PCB Congener #177	U	51	"							U
PCB Congener #178	U	51	"							U
PCB Congener #179	U	51	"							U
PCB Congener #180 and/or 193	U	51	"							U
PCB Congener #181	U	51	"							U
PCB Congener #182	U	51	"							U
PCB Congener #183 and/or 185	U	51	"							U
PCB Congener #184	U	51	"							U
PCB Congener #186	U	51	"							U
PCB Congener #187	U	51	"							U
PCB Congener #188	U	51	"							U
PCB Congener #189	U	51	"							U
PCB Congener #190	U	51	"							U
PCB Congener #191	U	51	"							U
PCB Congener #192	U	51	"							U
PCB Congener #194	U	51	"							U
PCB Congener #195	U	51	"							U
PCB Congener #196	U	51	"							U
PCB Congener #197 and/or 200	U	51	"							U
PCB Congener #198 and/or 199	U	51	"							U
PCB Congener #201	U	51	"							U
PCB Congener #202	U	51	"							U
PCB Congener #203	U	51	"							U
PCB Congener #204	U	51	"							U
PCB Congener #205	U	51	"							U
PCB Congener #206	28.283	51	"							B-4, Q-2, J
PCB Congener #207	U	51	"							U
PCB Congener #208	U	51	"							U
PCB Congener #209	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**LCS (1208113-BS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	80.101		ng/kg	202.02		39.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	84.869		"	202.02		42.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	90.909		"	202.02		45.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	96.646		"	202.02		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	100.20		"	202.02		49.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	106.93		"	202.02		52.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	102.42		"	202.02		50.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	109.60		"	202.02		54.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	70.465		"	202.02		34.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	98.081		"	202.02		48.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	101.62		"	202.02		50.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.47		"	202.02		50.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	99.838		"	202.02		49.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	93.212		"	202.02		46.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	74.061		"	202.02		36.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	96.626		"	202.02		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	199.05		"	404.04		49.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	101.76		"	202.02		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	79.697		"	202.02		39.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	132.22		"	202.02		65.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	99.980		"	202.02		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	145.45		"	202.02		72.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	84.970		"	202.02		42.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	210.20		"	202.02		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	90.465		"	202.02		44.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	115.86		"	202.02		57.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	170.75		"	197.98		86.2	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	146.48		"	195.96		74.8	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	135.54		"	183.84		73.7	40-125			
PCB Congener # 1	105.98	10	"	101.01		105	50-150			
PCB Congener # 3	101.84	10	"	101.01		101	50-150			
PCB Congener # 4	99.212	10	"	101.01		98.2	50-150			
PCB Congener # 15	99.657	10	"	101.01		98.7	50-150			
PCB Congener # 19	99.455	10	"	101.01		98.5	50-150			
PCB Congener # 37	84.889	10	"	101.01		84.0	50-150			
PCB Congener # 54	98.788	10	"	101.01		97.8	50-150			
PCB Congener # 77	95.818	10	"	101.01		94.9	50-150			
PCB Congener # 81	94.667	10	"	101.01		93.7	50-150			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**LCS (1208113-BS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener #104	94.162	10	ng/kg	101.01		93.2	50-150			
PCB Congener #105	100.65	10	"	101.01		99.6	50-150			
PCB Congener #114	94.263	10	"	101.01		93.3	50-150			
PCB Congener #118	115.86	10	"	101.01		115	50-150			
PCB Congener #123	98.020	10	"	101.01		97.0	50-150			
PCB Congener #126	82.808	10	"	101.01		82.0	50-150			
PCB Congener #155	94.646	10	"	101.01		93.7	50-150			
PCB Congener #156 and/or 157	207.05	10	"	202.02		102	50-150			
PCB Congener #167	96.848	10	"	101.01		95.9	50-150			
PCB Congener #169	97.374	51	"	101.01		96.4	50-150			
PCB Congener #188	96.162	51	"	101.01		95.2	50-150			
PCB Congener #189	119.35	10	"	101.01		118	50-150			
PCB Congener #202	94.747	51	"	101.01		93.8	50-150			
PCB Congener #205	97.253	10	"	101.01		96.3	50-150			
PCB Congener #206	130.53	10	"	101.01		129	50-150			
PCB Congener #208	107.72	10	"	101.01		107	50-150			
PCB Congener #209	118.69	100	"	101.01		118	50-150			

**LCS Dup (1208113-BSD1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	89.135		ng/kg	201.21		44.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	73.682		"	201.21		36.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	97.887		"	201.21		48.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	100.82		"	201.21		50.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	95.070		"	201.21		47.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	95.010		"	201.21		47.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	93.883		"	201.21		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	83.843		"	201.21		41.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	62.515		"	201.21		31.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	84.789		"	201.21		42.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	84.467		"	201.21		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	84.406		"	201.21		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	84.366		"	201.21		41.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	76.600		"	201.21		38.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	60.825		"	201.21		30.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	89.437		"	201.21		44.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	157.57		"	402.41		39.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	78.491		"	201.21		39.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	80.080		"	201.21		39.8	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**LCS Dup (1208113-BS1)**

Prepared: 08/20/12 Analyzed: 09/10/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	122.13		ng/kg	201.21		60.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	118.57		"	201.21		58.9	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	117.10		"	201.21		58.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	75.453		"	201.21		37.5	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	188.23		"	201.21		93.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	90.262		"	201.21		44.9	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	201.73		"	201.21		100	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	154.14		"	197.18		78.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	123.32		"	195.17		63.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	133.94		"	183.10		73.2	40-125			
PCB Congener # 1	100.08	10	"	100.60		99.5	50-150	5.73	30	
PCB Congener # 3	97.565	10	"	100.60		97.0	50-150	4.29	30	
PCB Congener # 4	95.755	10	"	100.60		95.2	50-150	3.55	30	
PCB Congener # 15	114.99	10	"	100.60		114	50-150	14.3	30	
PCB Congener # 19	97.867	10	"	100.60		97.3	50-150	1.61	30	
PCB Congener # 37	90.302	10	"	100.60		89.8	50-150	6.18	30	
PCB Congener # 54	93.219	10	"	100.60		92.7	50-150	5.80	30	
PCB Congener # 77	100.16	10	"	100.60		99.6	50-150	4.43	30	
PCB Congener # 81	97.545	10	"	100.60		97.0	50-150	3.00	30	
PCB Congener #104	89.598	10	"	100.60		89.1	50-150	4.97	30	
PCB Congener #105	97.243	10	"	100.60		96.7	50-150	3.44	30	
PCB Congener #114	90.785	10	"	100.60		90.2	50-150	3.76	30	
PCB Congener #118	107.22	10	"	100.60		107	50-150	7.74	30	
PCB Congener #123	94.427	10	"	100.60		93.9	50-150	3.73	30	
PCB Congener #126	84.326	10	"	100.60		83.8	50-150	1.82	30	
PCB Congener #155	85.412	10	"	100.60		84.9	50-150	10.3	30	
PCB Congener #156 and/or 157	183.76	10	"	201.21		91.3	50-150	11.9	30	
PCB Congener #167	92.032	10	"	100.60		91.5	50-150	5.10	30	
PCB Congener #169	109.66	50	"	100.60		109	50-150	11.9	30	
PCB Congener #188	82.294	50	"	100.60		81.8	50-150	15.5	30	
PCB Congener #189	108.73	10	"	100.60		108	50-150	9.31	30	
PCB Congener #202	97.586	50	"	100.60		97.0	50-150	2.95	30	
PCB Congener #205	89.658	10	"	100.60		89.1	50-150	8.13	30	
PCB Congener #206	122.54	10	"	100.60		122	50-150	6.31	30	
PCB Congener #208	117.57	10	"	100.60		117	50-150	8.74	30	
PCB Congener #209	131.45	20	"	100.60		131	50-150	10.2	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**MRL Verification (1208113-PS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	84.626		ng/kg	202.02		41.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	78.869		"	202.02		39.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	88.646		"	202.02		43.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	90.950		"	202.02		45.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	87.596		"	202.02		43.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	97.394		"	202.02		48.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	96.909		"	202.02		48.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	93.293		"	202.02		46.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	63.273		"	202.02		31.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	92.384		"	202.02		45.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	85.798		"	202.02		42.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	84.929		"	202.02		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	89.576		"	202.02		44.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	83.778		"	202.02		41.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	63.010		"	202.02		31.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	76.061		"	202.02		37.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	154.89		"	404.04		38.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	87.273		"	202.02		43.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	69.293		"	202.02		34.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	88.889		"	202.02		44.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	122.14		"	202.02		60.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	71.313		"	202.02		35.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	79.131		"	202.02		39.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	209.13		"	202.02		104	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	85.919		"	202.02		42.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	205.35		"	202.02		102	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	155.15		"	197.98		78.4	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	135.01		"	195.96		68.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	127.76		"	183.84		69.5	40-125			
PCB Congener # 1	12.182	10	"	10.101		121	30-170			MRL-4
PCB Congener # 3	11.919	10	"	10.101		118	30-170			MRL-4
PCB Congener # 4	13.131	10	"	10.101		130	30-170			MRL-4
PCB Congener # 15	14.242	10	"	10.101		141	30-170			MRL-4
PCB Congener # 19	10.323	10	"	10.101		102	30-170			MRL-4
PCB Congener # 37	11.657	10	"	10.101		115	30-170			MRL-4
PCB Congener # 54	9.7172	10	"	10.101		96.2	30-170			MRL-4, Q-2, J
PCB Congener # 77	11.879	10	"	10.101		118	30-170			MRL-4
PCB Congener # 81	12.687	10	"	10.101		126	30-170			MRL-4





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1208113 - E 1668**

**MRL Verification (1208113-PS1)**

Prepared: 08/20/12 Analyzed: 08/29/12

PCB Congener #104	7.9192	10	ng/kg	10.101		78.4	30-170			MRL-4, Q-2, J
PCB Congener #105	14.384	10	"	10.101		142	30-170			MRL-4
PCB Congener #114	9.1919	10	"	10.101		91.0	30-170			MRL-4, Q-2, J
PCB Congener #118	23.051	10	"	10.101		228	30-170			MRL-4, QR-2
PCB Congener #123	9.6970	10	"	10.101		96.0	30-170			MRL-4, Q-2, J
PCB Congener #126	10.424	10	"	10.101		103	30-170			MRL-4
PCB Congener #155	8.6263	10	"	10.101		85.4	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	19.172	10	"	20.202		94.9	30-170			MRL-4
PCB Congener #167	9.4141	10	"	10.101		93.2	30-170			MRL-4, Q-2, J
PCB Congener #169	11.818	51	"	10.101		117	30-170			MRL-4, Q-2, J
PCB Congener #188	6.9697	51	"	10.101		69.0	30-170			MRL-4, Q-2, J
PCB Congener #189	12.545	10	"	10.101		124	30-170			MRL-4
PCB Congener #202	18.687	51	"	10.101		185	30-170			MRL-4, Q-2, QR-2, J
PCB Congener #205	8.7879	10	"	10.101		87.0	30-170			MRL-4, Q-2, J
PCB Congener #206	40.465	10	"	10.101		401	30-170			MRL-4, QR-2
PCB Congener #208	15.980	10	"	10.101		158	30-170			MRL-4
PCB Congener #209	34.384	20	"	20.242		170	30-170			MRL-4



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**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203175 - E 3550 Tissue**

**Blank (1203175-BLK1)**

Prepared: 03/27/12 Analyzed: 03/28/12

**ASB E100**

% Lipids	0.0000		%							
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D.A.R.T. Id: 11-0321

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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QR-2 MRL verification recovery greater than upper control limits.



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Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**October 24, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

**This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.**

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



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Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Report Narrative** for Work Order E114504, Project: 12-0002

08/02/12 SJH PCB Congeners: Dilutions were performed on samples and QC due to matrix interferences precluding quantitation in the undiluted extracts. Hence, some of the MRLs have been elevated.

10/24/12 SJH PCB Congeners: At the request of Sandy Mort, data is being reissued with the appropriate sample qualifiers applied to QC Duplicate data. Some congeners in the duplicate sample results previously reported as hits are now non-detects due to the different treatment of QC from samples when qualifying for blank contamination. Percent lipid duplicate data is unchanged. This report replaces Element file E114504 PCBC PHYSP FINAL 08 08 12 1634.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-420	E114504-01	Fish	9/19/11 12:00	11/1/11 10:00
11-421	E114504-02	Fish	9/19/11 12:00	11/1/11 10:00
11-436	E114504-03	Fish	9/28/11 12:00	11/1/11 10:00
11-437	E114504-04	Fish	9/28/11 12:00	11/1/11 10:00
11-438	E114504-05	Fish	9/28/11 12:00	11/1/11 10:00
11-439	E114504-06	Fish	9/28/11 12:00	11/1/11 10:00
11-422	E114504-07	Fish	9/15/11 12:00	11/1/11 10:00
11-423	E114504-08	Fish	9/15/11 12:00	11/1/11 10:00
11-424	E114504-09	Fish	9/15/11 12:00	11/1/11 10:00
11-425	E114504-10	Fish	9/15/11 12:00	11/1/11 10:00
11-426	E114504-11	Fish	9/15/11 12:00	11/1/11 10:00
11-427	E114504-12	Fish	9/15/11 12:00	11/1/11 10:00
11-428	E114504-13	Fish	9/15/11 12:00	11/1/11 10:00
11-429	E114504-14	Fish	9/15/11 12:00	11/1/11 10:00
11-430	E114504-15	Fish	9/15/11 12:00	11/1/11 10:00
11-431	E114504-16	Fish	9/15/11 12:00	11/1/11 10:00
11-432	E114504-17	Fish	9/15/11 12:00	11/1/11 10:00
11-433	E114504-18	Fish	9/15/11 12:00	11/1/11 10:00
11-434	E114504-19	Fish	9/15/11 12:00	11/1/11 10:00
11-435	E114504-20	Fish	9/15/11 12:00	11/1/11 10:00



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QM-4	Matrix Precision outside method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	18	U, B-2	ng/kg	18	4/19/12 12:36	6/05/12 2:45	EPA 1668A
2051-61-8	PCB Congener # 2	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
2051-62-9	PCB Congener # 3	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
13029-08-8	PCB Congener # 4	6.9	J, Q-2	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
16605-91-7	PCB Congener # 5	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
25569-80-6	PCB Congener # 6	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
33284-50-3	PCB Congener # 7	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
34883-43-7	PCB Congener # 8	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
34883-39-1	PCB Congener # 9	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
33146-45-1	PCB Congener # 10	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
2050-67-1	PCB Congener # 11	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
34883-41-5	PCB Congener # 14	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
2050-68-2	PCB Congener # 15	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-78-9	PCB Congener # 16	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
37680-66-3	PCB Congener # 17	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-73-4	PCB Congener # 19	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	45		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-85-8	PCB Congener # 22	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
55720-44-0	PCB Congener # 23	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
55702-45-9	PCB Congener # 24	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
55712-37-3	PCB Congener # 25	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-76-7	PCB Congener # 27	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
16606-02-3	PCB Congener # 31	17		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-77-8	PCB Congener # 32	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
37680-69-6	PCB Congener # 35	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-87-0	PCB Congener # 36	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-90-5	PCB Congener # 37	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
53555-66-1	PCB Congener # 38	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
38444-88-1	PCB Congener # 39	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
36559-22-5	PCB Congener # 42	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70362-46-8	PCB Congener # 43	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	60		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
41464-47-5	PCB Congener # 46	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70362-47-9	PCB Congener # 48	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	45		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
35693-99-3	PCB Congener # 52	52		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
15968-05-5	PCB Congener # 54	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
74338-24-2	PCB Congener # 55	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
41464-43-1	PCB Congener # 56	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70424-67-8	PCB Congener # 57	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
41464-49-7	PCB Congener # 58	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
33025-41-1	PCB Congener # 60	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	61		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
74472-34-7	PCB Congener # 63	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
52663-58-8	PCB Congener # 64	28		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
32598-10-0	PCB Congener # 66	63		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
73575-53-8	PCB Congener # 67	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
73575-52-7	PCB Congener # 68	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
74338-23-1	PCB Congener # 73	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
32598-13-3	PCB Congener # 77	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70362-49-1	PCB Congener # 78	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
41464-48-6	PCB Congener # 79	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
33284-52-5	PCB Congener # 80	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70362-50-4	PCB Congener # 81	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
52663-62-4	PCB Congener # 82	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	92		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
52663-60-2	PCB Congener # 84	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	26		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	38		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
73575-57-2	PCB Congener # 89	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	75		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
52663-61-3	PCB Congener # 92	22		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	37		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
73575-55-0	PCB Congener # 94	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
73575-54-9	PCB Congener # 96	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
60145-21-3	PCB Congener #103	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
56558-16-8	PCB Congener #104	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
32598-14-4	PCB Congener #105	31		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70424-69-0	PCB Congener #106	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
70424-68-9	PCB Congener #107	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	81		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
39635-32-0	PCB Congener #111	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
74472-36-9	PCB Congener #112	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.0	J, Q-2	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
31508-00-6	PCB Congener #118	120		ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
68194-12-7	PCB Congener #120	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
56558-18-0	PCB Congener #121	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
76842-07-4	PCB Congener #122	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
65510-44-3	PCB Congener #123	1.8	J, Q-2	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
57465-28-8	PCB Congener #126	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
39635-33-1	PCB Congener #127	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	170		ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-66-8	PCB Congener #130	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
61798-70-7	PCB Congener #131	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
38380-05-1	PCB Congener #132	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
35694-04-3	PCB Congener #133	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
38411-22-2	PCB Congener #136	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
35694-06-5	PCB Congener #137	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52712-04-6	PCB Congener #141	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
41411-61-4	PCB Congener #142	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
68194-14-9	PCB Congener #144	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-40-5	PCB Congener #145	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
51908-16-8	PCB Congener #146	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-41-6	PCB Congener #148	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
68194-08-1	PCB Congener #150	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
68194-09-2	PCB Congener #152	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	230		ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	17	U	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	14	J, Q-2	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
74472-42-7	PCB Congener #158	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
39635-35-3	PCB Congener #159	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-43-8	PCB Congener #161	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
39635-34-2	PCB Congener #162	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-45-0	PCB Congener #164	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-46-1	PCB Congener #165	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-72-6	PCB Congener #167	7.3	J, Q-2	ng/kg	17	4/19/12 12:36	6/05/12 2:45	EPA 1668A
32774-16-6	PCB Congener #169	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
35065-30-6	PCB Congener #170	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-74-8	PCB Congener #172	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
38411-25-5	PCB Congener #174	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
40186-70-7	PCB Congener #175	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-65-7	PCB Congener #176	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-70-4	PCB Congener #177	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-67-9	PCB Congener #178	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-64-6	PCB Congener #179	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-47-2	PCB Congener #181	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
60145-23-5	PCB Congener #182	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-48-3	PCB Congener #184	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-49-4	PCB Congener #186	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-68-0	PCB Congener #187	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74487-85-7	PCB Congener #188	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
39635-31-9	PCB Congener #189	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
41411-64-7	PCB Congener #190	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-51-8	PCB Congener #192	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
35694-08-7	PCB Congener #194	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-78-2	PCB Congener #195	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
42740-50-1	PCB Congener #196	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
40186-71-8	PCB Congener #201	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
2136-99-4	PCB Congener #202	13	J, Q-2	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-76-0	PCB Congener #203	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-52-9	PCB Congener #204	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
74472-53-0	PCB Congener #205	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
40186-72-9	PCB Congener #206	37	J, Q-2	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-79-3	PCB Congener #207	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
52663-77-1	PCB Congener #208	84	U	ng/kg	84	4/19/12 12:36	6/11/12 19:21	EPA 1668A
2051-24-3	PCB Congener #209	170	U	ng/kg	170	4/19/12 12:36	6/11/12 19:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-420

Lab ID: E114504-01

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	13	U, B-2	ng/kg	13	4/19/12 12:36	6/05/12 3:49	EPA 1668A
2051-61-8	PCB Congener # 2	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
2051-62-9	PCB Congener # 3	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
13029-08-8	PCB Congener # 4	4.2	J, Q-2	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
16605-91-7	PCB Congener # 5	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
25569-80-6	PCB Congener # 6	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
33284-50-3	PCB Congener # 7	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
34883-43-7	PCB Congener # 8	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
34883-39-1	PCB Congener # 9	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
33146-45-1	PCB Congener # 10	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
2050-67-1	PCB Congener # 11	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
34883-41-5	PCB Congener # 14	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
2050-68-2	PCB Congener # 15	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-78-9	PCB Congener # 16	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
37680-66-3	PCB Congener # 17	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-73-4	PCB Congener # 19	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	22	U, B-5	ng/kg	22	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-85-8	PCB Congener # 22	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
55720-44-0	PCB Congener # 23	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
55702-45-9	PCB Congener # 24	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
55712-37-3	PCB Congener # 25	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-76-7	PCB Congener # 27	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
16606-02-3	PCB Congener # 31	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-77-8	PCB Congener # 32	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
37680-69-6	PCB Congener # 35	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-87-0	PCB Congener # 36	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-90-5	PCB Congener # 37	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
53555-66-1	PCB Congener # 38	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
38444-88-1	PCB Congener # 39	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
36559-22-5	PCB Congener # 42	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70362-46-8	PCB Congener # 43	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	27		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
41464-47-5	PCB Congener # 46	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70362-47-9	PCB Congener # 48	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	21		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
35693-99-3	PCB Congener # 52	33	U, B-5	ng/kg	33	4/19/12 12:36	6/05/12 3:49	EPA 1668A
15968-05-5	PCB Congener # 54	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
74338-24-2	PCB Congener # 55	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
41464-43-1	PCB Congener # 56	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70424-67-8	PCB Congener # 57	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
41464-49-7	PCB Congener # 58	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
33025-41-1	PCB Congener # 60	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	27	U, B-5	ng/kg	27	4/19/12 12:36	6/05/12 3:49	EPA 1668A
74472-34-7	PCB Congener # 63	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
52663-58-8	PCB Congener # 64	13		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
32598-10-0	PCB Congener # 66	35		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
73575-53-8	PCB Congener # 67	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
73575-52-7	PCB Congener # 68	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
74338-23-1	PCB Congener # 73	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
32598-13-3	PCB Congener # 77	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70362-49-1	PCB Congener # 78	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
41464-48-6	PCB Congener # 79	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
33284-52-5	PCB Congener # 80	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70362-50-4	PCB Congener # 81	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
52663-62-4	PCB Congener # 82	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	68		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
52663-60-2	PCB Congener # 84	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	18		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	26		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
73575-57-2	PCB Congener # 89	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	64		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
52663-61-3	PCB Congener # 92	14		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	30		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
73575-55-0	PCB Congener # 94	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
73575-54-9	PCB Congener # 96	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
60145-21-3	PCB Congener #103	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
56558-16-8	PCB Congener #104	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
32598-14-4	PCB Congener #105	24		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70424-69-0	PCB Congener #106	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
70424-68-9	PCB Congener #107	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	56		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
39635-32-0	PCB Congener #111	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
74472-36-9	PCB Congener #112	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.5	J, Q-2	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
31508-00-6	PCB Congener #118	95		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
68194-12-7	PCB Congener #120	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
56558-18-0	PCB Congener #121	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
76842-07-4	PCB Congener #122	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
65510-44-3	PCB Congener #123	1.5	J, Q-2	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
57465-28-8	PCB Congener #126	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
39635-33-1	PCB Congener #127	12	U	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	160		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-66-8	PCB Congener #130	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
61798-70-7	PCB Congener #131	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
38380-05-1	PCB Congener #132	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
35694-04-3	PCB Congener #133	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
38411-22-2	PCB Congener #136	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
35694-06-5	PCB Congener #137	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52712-04-6	PCB Congener #141	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
41411-61-4	PCB Congener #142	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
68194-14-9	PCB Congener #144	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-40-5	PCB Congener #145	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
51908-16-8	PCB Congener #146	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-41-6	PCB Congener #148	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
68194-08-1	PCB Congener #150	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
68194-09-2	PCB Congener #152	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	210		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.6	J, Q-2	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	13		ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
74472-42-7	PCB Congener #158	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
39635-35-3	PCB Congener #159	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-43-8	PCB Congener #161	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
39635-34-2	PCB Congener #162	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-45-0	PCB Congener #164	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-46-1	PCB Congener #165	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-72-6	PCB Congener #167	8.2	J, Q-2	ng/kg	12	4/19/12 12:36	6/05/12 3:49	EPA 1668A
32774-16-6	PCB Congener #169	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
35065-30-6	PCB Congener #170	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-74-8	PCB Congener #172	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
38411-25-5	PCB Congener #174	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
40186-70-7	PCB Congener #175	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-65-7	PCB Congener #176	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-70-4	PCB Congener #177	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-67-9	PCB Congener #178	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-64-6	PCB Congener #179	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	130		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-47-2	PCB Congener #181	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
60145-23-5	PCB Congener #182	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	81		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-48-3	PCB Congener #184	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-49-4	PCB Congener #186	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-68-0	PCB Congener #187	100		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74487-85-7	PCB Congener #188	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
39635-31-9	PCB Congener #189	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
41411-64-7	PCB Congener #190	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-51-8	PCB Congener #192	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
35694-08-7	PCB Congener #194	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-78-2	PCB Congener #195	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
42740-50-1	PCB Congener #196	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
40186-71-8	PCB Congener #201	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
2136-99-4	PCB Congener #202	17	J, Q-2	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-76-0	PCB Congener #203	65		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-52-9	PCB Congener #204	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
74472-53-0	PCB Congener #205	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
40186-72-9	PCB Congener #206	67		ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-79-3	PCB Congener #207	58	U	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
52663-77-1	PCB Congener #208	36	J, Q-2	ng/kg	58	4/19/12 12:36	6/11/12 20:25	EPA 1668A
2051-24-3	PCB Congener #209	90	J, Q-2	ng/kg	120	4/19/12 12:36	6/11/12 20:25	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-421

Lab ID: E114504-02

Station ID: YAD-HRL-SC

Matrix: Fish

Date Collected: 9/19/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-436

Lab ID: E114504-03

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
13029-08-8	PCB Congener # 4	3.2	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	58		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-436

Lab ID: E114504-03

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-90-5	PCB Congener # 37	11		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	41		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
36559-22-5	PCB Congener # 42	33		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70362-47-9	PCB Congener # 48	12		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	120		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
35693-99-3	PCB Congener # 52	190		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
41464-43-1	PCB Congener # 56	49		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	18		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
33025-41-1	PCB Congener # 60	30		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	290		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
52663-58-8	PCB Congener # 64	76		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
32598-10-0	PCB Congener # 66	260		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-436

Lab ID: E114504-03

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
32598-13-3	PCB Congener # 77	18		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
52663-62-4	PCB Congener # 82	27		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	430		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
52663-60-2	PCB Congener # 84	44		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	140		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	200		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	59		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	470		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
52663-61-3	PCB Congener # 92	120		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	220		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
32598-14-4	PCB Congener #105	190		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
70424-68-9	PCB Congener #107	50		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	16		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	360		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-436**

**Lab ID: E114504-03**

**Station ID: YAD-TIL-MI**

**Matrix: Fish**

**Date Collected: 9/28/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	11		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
31508-00-6	PCB Congener #118	570		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
65510-44-3	PCB Congener #123	11		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	180		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1800		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-66-8	PCB Congener #130	81		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38380-05-1	PCB Congener #132	210		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	630		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38411-22-2	PCB Congener #136	82		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52712-04-6	PCB Congener #141	270		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
51908-16-8	PCB Congener #146	390		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	990		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2600		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-436

Lab ID: E114504-03

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	8.5	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	110		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
74472-42-7	PCB Congener #158	130		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-45-0	PCB Congener #164	120		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-72-6	PCB Congener #167	66		ng/kg	10	4/19/12 12:36	6/05/12 4:53	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
35065-30-6	PCB Congener #170	560		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	180		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-74-8	PCB Congener #172	120		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
38411-25-5	PCB Congener #174	260		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-70-4	PCB Congener #177	240		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-67-9	PCB Congener #178	240		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-64-6	PCB Congener #179	170		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1500		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1100		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-68-0	PCB Congener #187	1300		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
39635-31-9	PCB Congener #189	27	J, Q-2	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
41411-64-7	PCB Congener #190	120		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-436

Lab ID: E114504-03

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
35694-08-7	PCB Congener #194	240		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-78-2	PCB Congener #195	120		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	320		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
40186-71-8	PCB Congener #201	54		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
2136-99-4	PCB Congener #202	140		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-76-0	PCB Congener #203	440		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
74472-53-0	PCB Congener #205	20	J, Q-2	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
40186-72-9	PCB Congener #206	230		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
52663-77-1	PCB Congener #208	94		ng/kg	50	4/19/12 12:36	6/11/12 21:29	EPA 1668A
2051-24-3	PCB Congener #209	150		ng/kg	100	4/19/12 12:36	6/11/12 21:29	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-436

Lab ID: E114504-03

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
13029-08-8	PCB Congener # 4	3.1	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	70		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-90-5	PCB Congener # 37	12		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	53		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
36559-22-5	PCB Congener # 42	44		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	220		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70362-47-9	PCB Congener # 48	15		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	150		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
35693-99-3	PCB Congener # 52	250		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
41464-43-1	PCB Congener # 56	60		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	23		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
33025-41-1	PCB Congener # 60	36		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	360		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
74472-34-7	PCB Congener # 63	14		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
52663-58-8	PCB Congener # 64	91		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
32598-10-0	PCB Congener # 66	320		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
32598-13-3	PCB Congener # 77	20		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
52663-62-4	PCB Congener # 82	32		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	590		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
52663-60-2	PCB Congener # 84	58		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	190		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	270		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	77		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	580		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
52663-61-3	PCB Congener # 92	160		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	280		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
32598-14-4	PCB Congener #105	230		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
70424-68-9	PCB Congener #107	65		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	19		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	460		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	13		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
31508-00-6	PCB Congener #118	680		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
65510-44-3	PCB Congener #123	13		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	230		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2000		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-66-8	PCB Congener #130	98		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38380-05-1	PCB Congener #132	250		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	690		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38411-22-2	PCB Congener #136	110		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
35694-06-5	PCB Congener #137	51		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52712-04-6	PCB Congener #141	310		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
68194-14-9	PCB Congener #144	61		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
51908-16-8	PCB Congener #146	470		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1400	J, QM-4	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2700		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	12		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	120		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
74472-42-7	PCB Congener #158	140		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-45-0	PCB Congener #164	100		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-72-6	PCB Congener #167	71		ng/kg	10	4/19/12 12:36	6/05/12 5:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
35065-30-6	PCB Congener #170	450	J, QM-4	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	160		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-74-8	PCB Congener #172	94		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
38411-25-5	PCB Congener #174	240		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-65-7	PCB Congener #176	50		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-70-4	PCB Congener #177	190		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-67-9	PCB Congener #178	230		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-64-6	PCB Congener #179	190		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1300		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	990		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-68-0	PCB Congener #187	1300		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
39635-31-9	PCB Congener #189	19	J, Q-2	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
41411-64-7	PCB Congener #190	95		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
35694-08-7	PCB Congener #194	230		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
42740-50-1	PCB Congener #196	84		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	350		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
40186-71-8	PCB Congener #201	54		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
2136-99-4	PCB Congener #202	140		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-76-0	PCB Congener #203	490		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
40186-72-9	PCB Congener #206	300		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
52663-77-1	PCB Congener #208	110		ng/kg	50	4/19/12 12:36	6/11/12 22:33	EPA 1668A
2051-24-3	PCB Congener #209	210		ng/kg	100	4/19/12 12:36	6/11/12 22:33	EPA 1668A



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D.A.R.T. Id: 11-0321

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## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-437

Lab ID: E114504-04

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
13029-08-8	PCB Congener # 4	3.0	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-90-5	PCB Congener # 37	9.0	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	39		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
36559-22-5	PCB Congener # 42	32		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	150		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70362-47-9	PCB Congener # 48	11		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
35693-99-3	PCB Congener # 52	170		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
41464-43-1	PCB Congener # 56	45		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	16		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
33025-41-1	PCB Congener # 60	23		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	250		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
52663-58-8	PCB Congener # 64	70		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
32598-10-0	PCB Congener # 66	220		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
32598-13-3	PCB Congener # 77	16		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
52663-62-4	PCB Congener # 82	26		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	390		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
52663-60-2	PCB Congener # 84	41		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	200		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	54		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	450		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	210		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
32598-14-4	PCB Congener #105	160		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
70424-68-9	PCB Congener #107	46		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	13		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	320		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
31508-00-6	PCB Congener #118	490		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
65510-44-3	PCB Congener #123	8.7	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	180		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1600		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-66-8	PCB Congener #130	85		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38380-05-1	PCB Congener #132	180		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	550		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38411-22-2	PCB Congener #136	80		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52712-04-6	PCB Congener #141	290		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
68194-14-9	PCB Congener #144	59		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
51908-16-8	PCB Congener #146	410		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1100		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2500		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	6.9	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	99		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
74472-42-7	PCB Congener #158	130		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-45-0	PCB Congener #164	120		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-72-6	PCB Congener #167	57		ng/kg	10	4/19/12 12:36	6/05/12 7:00	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
35065-30-6	PCB Congener #170	430		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	150		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-74-8	PCB Congener #172	94		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
38411-25-5	PCB Congener #174	190		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-70-4	PCB Congener #177	180		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-67-9	PCB Congener #178	200		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-64-6	PCB Congener #179	140		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1100		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	990		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-68-0	PCB Congener #187	1100		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
39635-31-9	PCB Congener #189	22	J, Q-2	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
41411-64-7	PCB Congener #190	80		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
35694-08-7	PCB Congener #194	230		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-78-2	PCB Congener #195	110		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
42740-50-1	PCB Congener #196	120		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	260		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
40186-71-8	PCB Congener #201	56		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
2136-99-4	PCB Congener #202	110		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-76-0	PCB Congener #203	360		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
74472-53-0	PCB Congener #205	16	J, Q-2	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
40186-72-9	PCB Congener #206	210		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
52663-77-1	PCB Congener #208	73		ng/kg	50	4/19/12 12:36	6/11/12 23:36	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	100	4/19/12 12:36	6/11/12 23:36	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-438

Lab ID: E114504-05

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.0		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
13029-08-8	PCB Congener # 4	2.8	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	11		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	57		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	40		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
35693-99-3	PCB Congener # 52	70		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	75		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
52663-58-8	PCB Congener # 64	23		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
32598-10-0	PCB Congener # 66	70		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
32598-13-3	PCB Congener # 77	4.6	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	140		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
52663-60-2	PCB Congener # 84	12		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	34		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	53		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	17		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	110		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
52663-61-3	PCB Congener # 92	36		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	63		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
32598-14-4	PCB Congener #105	44		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
70424-68-9	PCB Congener #107	12		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.9	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
31508-00-6	PCB Congener #118	140		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
65510-44-3	PCB Congener #123	2.8	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	260		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
51908-16-8	PCB Congener #146	90		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	210		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	450		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.3	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	20		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-72-6	PCB Congener #167	11		ng/kg	10	4/19/12 12:36	6/05/12 8:04	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
35065-30-6	PCB Congener #170	57		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	130		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	130		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-68-0	PCB Congener #187	160		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	74		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
2136-99-4	PCB Congener #202	52		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-76-0	PCB Congener #203	90		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
40186-72-9	PCB Congener #206	120		ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
52663-77-1	PCB Congener #208	44	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 0:40	EPA 1668A
2051-24-3	PCB Congener #209	93	J, Q-2	ng/kg	100	4/19/12 12:36	6/12/12 0:40	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-439

Lab ID: E114504-06

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.90		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	12	U, B-2	ng/kg	12	4/19/12 12:36	6/05/12 18:05	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
13029-08-8	PCB Congener # 4	18		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
34883-43-7	PCB Congener # 8	39	U, B-5	ng/kg	39	4/19/12 12:36	6/05/12 18:05	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
2050-68-2	PCB Congener # 15	25	U, B-2	ng/kg	25	4/19/12 12:36	6/05/12 18:05	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
37680-66-3	PCB Congener # 17	110		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	87		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-73-4	PCB Congener # 19	22	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	620		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	140		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-85-8	PCB Congener # 22	54		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
55712-37-3	PCB Congener # 25	60		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	81		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
16606-02-3	PCB Congener # 31	350		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-90-5	PCB Congener # 37	72		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	370		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
36559-22-5	PCB Congener # 42	300		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70362-46-8	PCB Congener # 43	48		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1400		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	82		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
41464-47-5	PCB Congener # 46	17		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70362-47-9	PCB Congener # 48	120		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1200		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	80		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
35693-99-3	PCB Congener # 52	1500		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
41464-43-1	PCB Congener # 56	520		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	140		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
33025-41-1	PCB Congener # 60	300		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	3100		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
74472-34-7	PCB Congener # 63	86		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
52663-58-8	PCB Congener # 64	670		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
32598-10-0	PCB Congener # 66	2400		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
73575-53-8	PCB Congener # 67	27		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
73575-52-7	PCB Congener # 68	28		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	29		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
32598-13-3	PCB Congener # 77	150		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
41464-48-6	PCB Congener # 79	21		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70362-50-4	PCB Congener # 81	7.6	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
52663-62-4	PCB Congener # 82	170		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1900		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
52663-60-2	PCB Congener # 84	230		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	760		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1100		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	330		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
73575-57-2	PCB Congener # 89	10		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1600		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
52663-61-3	PCB Congener # 92	340		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	840		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
60145-21-3	PCB Congener #103	20		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
32598-14-4	PCB Congener #105	1400		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
70424-68-9	PCB Congener #107	300		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	76		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1500		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
31508-00-6	PCB Congener #118	3100		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
68194-12-7	PCB Congener #120	12		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
76842-07-4	PCB Congener #122	29		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
65510-44-3	PCB Congener #123	88		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	280		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1800		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-66-8	PCB Congener #130	100		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38380-05-1	PCB Congener #132	210		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	480		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38411-22-2	PCB Congener #136	64		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
35694-06-5	PCB Congener #137	83		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
51908-16-8	PCB Congener #146	350		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	900		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2000		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	12		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	190		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
74472-42-7	PCB Congener #158	140		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-45-0	PCB Congener #164	86		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-72-6	PCB Congener #167	78		ng/kg	10	4/19/12 12:36	6/05/12 18:05	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
35065-30-6	PCB Congener #170	260		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	93		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-74-8	PCB Congener #172	61		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
38411-25-5	PCB Congener #174	160		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-70-4	PCB Congener #177	130		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-67-9	PCB Congener #178	110		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-64-6	PCB Congener #179	89		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	750		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	400		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-68-0	PCB Congener #187	590		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
39635-31-9	PCB Congener #189	16	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
41411-64-7	PCB Congener #190	58		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
35694-08-7	PCB Congener #194	120		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-78-2	PCB Congener #195	61		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	180		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
2136-99-4	PCB Congener #202	90		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-76-0	PCB Congener #203	280		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
74472-53-0	PCB Congener #205	11	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
52663-77-1	PCB Congener #208	72		ng/kg	50	4/19/12 12:36	6/12/12 14:39	EPA 1668A
2051-24-3	PCB Congener #209	130		ng/kg	100	4/19/12 12:36	6/12/12 14:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-422

Lab ID: E114504-07

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		3/15/12 11:45	3/16/12 10:05	ASB E100





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	11	U, B-2	ng/kg	11	4/19/12 12:36	6/05/12 19:09	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
34883-43-7	PCB Congener # 8	31	U, B-5	ng/kg	31	4/19/12 12:36	6/05/12 19:09	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
2050-68-2	PCB Congener # 15	19	U, B-2	ng/kg	19	4/19/12 12:36	6/05/12 19:09	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
37680-66-3	PCB Congener # 17	96		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	66		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-73-4	PCB Congener # 19	14	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	490		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	59		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
16606-02-3	PCB Congener # 31	260		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-90-5	PCB Congener # 37	59		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	250		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
36559-22-5	PCB Congener # 42	210		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70362-46-8	PCB Congener # 43	36		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1100		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	50		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
41464-47-5	PCB Congener # 46	12		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70362-47-9	PCB Congener # 48	100		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	900		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	48		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
35693-99-3	PCB Congener # 52	1100		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
41464-43-1	PCB Congener # 56	360		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
33025-41-1	PCB Congener # 60	210		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	2200		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
74472-34-7	PCB Congener # 63	90		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
52663-58-8	PCB Congener # 64	450		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
32598-10-0	PCB Congener # 66	1900		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
73575-53-8	PCB Congener # 67	20		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
73575-52-7	PCB Congener # 68	25		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	21		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
32598-13-3	PCB Congener # 77	110		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70362-50-4	PCB Congener # 81	5.0	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
52663-62-4	PCB Congener # 82	130		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1700		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
52663-60-2	PCB Congener # 84	150		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	620		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	880		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	250		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1500		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
52663-61-3	PCB Congener # 92	310		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	600		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
60145-21-3	PCB Congener #103	15		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
32598-14-4	PCB Congener #105	1100		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
70424-68-9	PCB Congener #107	240		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	51		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1200		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	87		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
31508-00-6	PCB Congener #118	2500		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
68194-12-7	PCB Congener #120	11		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
76842-07-4	PCB Congener #122	23		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
65510-44-3	PCB Congener #123	89		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	250		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1500		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-66-8	PCB Congener #130	88		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38380-05-1	PCB Congener #132	150		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	370		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
35694-06-5	PCB Congener #137	74		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52712-04-6	PCB Congener #141	140		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
51908-16-8	PCB Congener #146	300		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	620		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1500		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	9.2	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	160		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
74472-42-7	PCB Congener #158	100		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-45-0	PCB Congener #164	61		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-72-6	PCB Congener #167	67		ng/kg	10	4/19/12 12:36	6/05/12 19:09	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
35065-30-6	PCB Congener #170	260		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	81		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-74-8	PCB Congener #172	52		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
38411-25-5	PCB Congener #174	120		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-70-4	PCB Congener #177	130		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-67-9	PCB Congener #178	98		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-64-6	PCB Congener #179	59		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	740		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	430		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-68-0	PCB Congener #187	630		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
39635-31-9	PCB Congener #189	10	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
35694-08-7	PCB Congener #194	110		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-78-2	PCB Congener #195	58		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	170		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
2136-99-4	PCB Congener #202	87		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-76-0	PCB Congener #203	270		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
52663-77-1	PCB Congener #208	58		ng/kg	50	4/19/12 12:36	6/12/12 15:43	EPA 1668A
2051-24-3	PCB Congener #209	110		ng/kg	100	4/19/12 12:36	6/12/12 15:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-423

Lab ID: E114504-08

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.3		%		3/15/12 11:45	3/16/12 10:05	ASB E100





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
34883-43-7	PCB Congener # 8	30	U, B-5	ng/kg	30	4/19/12 12:36	6/05/12 20:13	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
2050-68-2	PCB Congener # 15	18	U, B-2	ng/kg	18	4/19/12 12:36	6/05/12 20:13	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
37680-66-3	PCB Congener # 17	86		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	59		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-73-4	PCB Congener # 19	10	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	350		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	88		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
16606-02-3	PCB Congener # 31	220		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-90-5	PCB Congener # 37	50		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	240		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
36559-22-5	PCB Congener # 42	190		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70362-46-8	PCB Congener # 43	35		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	960		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	54		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
41464-47-5	PCB Congener # 46	11		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70362-47-9	PCB Congener # 48	91		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	720		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	52		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
35693-99-3	PCB Congener # 52	1000		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
41464-43-1	PCB Congener # 56	300		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	89		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
33025-41-1	PCB Congener # 60	160		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1700		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
74472-34-7	PCB Congener # 63	71		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
52663-58-8	PCB Congener # 64	430		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
32598-10-0	PCB Congener # 66	1400		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
73575-53-8	PCB Congener # 67	15		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
73575-52-7	PCB Congener # 68	19		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	16		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
32598-13-3	PCB Congener # 77	83		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70362-50-4	PCB Congener # 81	3.7	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
52663-62-4	PCB Congener # 82	100		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1300		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
52663-60-2	PCB Congener # 84	130		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	490		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	700		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	190		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1100		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
52663-61-3	PCB Congener # 92	220		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	510		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
32598-14-4	PCB Congener #105	750		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
70424-68-9	PCB Congener #107	170		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	44		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	950		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	58		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
31508-00-6	PCB Congener #118	1800		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
76842-07-4	PCB Congener #122	18		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
65510-44-3	PCB Congener #123	42		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	170		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	990		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-66-8	PCB Congener #130	58		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38380-05-1	PCB Congener #132	120		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	270		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52712-04-6	PCB Congener #141	110		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
51908-16-8	PCB Congener #146	200		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	490		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	960		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	5.7	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
74472-42-7	PCB Congener #158	71		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-72-6	PCB Congener #167	43		ng/kg	9.9	4/19/12 12:36	6/05/12 20:13	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
35065-30-6	PCB Congener #170	150		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
38411-25-5	PCB Congener #174	82		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-70-4	PCB Congener #177	74		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-67-9	PCB Congener #178	62		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-64-6	PCB Congener #179	51		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	410		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	240		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-68-0	PCB Congener #187	340		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
39635-31-9	PCB Congener #189	8.6	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
35694-08-7	PCB Congener #194	81		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	120		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
2136-99-4	PCB Congener #202	57		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-76-0	PCB Congener #203	170		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
74472-53-0	PCB Congener #205	6.6	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
40186-72-9	PCB Congener #206	110		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
52663-77-1	PCB Congener #208	57		ng/kg	50	4/19/12 12:36	6/12/12 16:47	EPA 1668A
2051-24-3	PCB Congener #209	98	J, Q-2	ng/kg	99	4/19/12 12:36	6/12/12 16:47	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-424

Lab ID: E114504-09

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.3		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
13029-08-8	PCB Congener # 4	9.7	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
34883-43-7	PCB Congener # 8	19	U, B-5	ng/kg	19	4/19/12 12:36	6/05/12 21:17	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
2050-68-2	PCB Congener # 15	12	U, B-2	ng/kg	12	4/19/12 12:36	6/05/12 21:17	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
37680-66-3	PCB Congener # 17	53		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	200		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	52		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
16606-02-3	PCB Congener # 31	110		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-90-5	PCB Congener # 37	32		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	170		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
36559-22-5	PCB Congener # 42	130		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70362-46-8	PCB Congener # 43	23		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	670		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	36		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70362-47-9	PCB Congener # 48	58		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	490		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	36		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
35693-99-3	PCB Congener # 52	680		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
41464-43-1	PCB Congener # 56	190		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	58		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
33025-41-1	PCB Congener # 60	110		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1100		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
74472-34-7	PCB Congener # 63	48		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
52663-58-8	PCB Congener # 64	290		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
32598-10-0	PCB Congener # 66	970		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
73575-53-8	PCB Congener # 67	10		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
73575-52-7	PCB Congener # 68	12		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	11		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
32598-13-3	PCB Congener # 77	58		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70362-50-4	PCB Congener # 81	2.5	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
52663-62-4	PCB Congener # 82	75		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	940		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
52663-60-2	PCB Congener # 84	94		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	340		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	490		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	140		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	800		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
52663-61-3	PCB Congener # 92	160		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	360		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
32598-14-4	PCB Congener #105	590		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
70424-68-9	PCB Congener #107	130		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	31		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	720		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	45		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
31508-00-6	PCB Congener #118	1300		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
76842-07-4	PCB Congener #122	12		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
65510-44-3	PCB Congener #123	35		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	760		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38380-05-1	PCB Congener #132	84		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52712-04-6	PCB Congener #141	77		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
51908-16-8	PCB Congener #146	130		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	380		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	800		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.2	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	80		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
74472-42-7	PCB Congener #158	57		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-72-6	PCB Congener #167	32		ng/kg	9.9	4/19/12 12:36	6/05/12 21:17	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
35065-30-6	PCB Congener #170	120		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
38411-25-5	PCB Congener #174	55		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	300		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	210		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-68-0	PCB Congener #187	260		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
35694-08-7	PCB Congener #194	62		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	80		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
2136-99-4	PCB Congener #202	35	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-76-0	PCB Congener #203	120		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
40186-72-9	PCB Congener #206	77		ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
52663-77-1	PCB Congener #208	34	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 17:51	EPA 1668A
2051-24-3	PCB Congener #209	71	J, Q-2	ng/kg	99	4/19/12 12:36	6/12/12 17:51	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-425

Lab ID: E114504-10

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	97		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	11		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
16606-02-3	PCB Congener # 31	51		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-90-5	PCB Congener # 37	21		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
36559-22-5	PCB Congener # 42	38		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	300		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	210		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	14		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
35693-99-3	PCB Congener # 52	280		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
41464-43-1	PCB Congener # 56	83		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	26		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
33025-41-1	PCB Congener # 60	55		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	570		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
74472-34-7	PCB Congener # 63	25		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
52663-58-8	PCB Congener # 64	88		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
32598-10-0	PCB Congener # 66	460		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
32598-13-3	PCB Congener # 77	33		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
52663-62-4	PCB Congener # 82	27		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	470		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
52663-60-2	PCB Congener # 84	25		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	190		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	230		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	50		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	370		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
52663-61-3	PCB Congener # 92	73		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	120		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
32598-14-4	PCB Congener #105	280		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
70424-68-9	PCB Congener #107	70		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	16		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	170		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	23		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
31508-00-6	PCB Congener #118	710		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
65510-44-3	PCB Congener #123	20		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	57		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	360		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	66		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
51908-16-8	PCB Congener #146	54		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	120		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	370		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	38		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-72-6	PCB Congener #167	16		ng/kg	10	4/19/12 12:36	6/05/12 22:20	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	130		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	77		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-68-0	PCB Congener #187	140		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
2136-99-4	PCB Congener #202	14	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-76-0	PCB Congener #203	51		ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
40186-72-9	PCB Congener #206	27	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	4/19/12 12:36	6/12/12 18:54	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	4/19/12 12:36	6/12/12 18:54	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-426

Lab ID: E114504-11

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.50		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	12	U, B-2	ng/kg	12	4/19/12 12:36	6/05/12 23:24	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	81		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
16606-02-3	PCB Congener # 31	36		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-90-5	PCB Congener # 37	17		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
36559-22-5	PCB Congener # 42	25		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	200		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	130		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
35693-99-3	PCB Congener # 52	210		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
41464-43-1	PCB Congener # 56	41		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	17		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
33025-41-1	PCB Congener # 60	32		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	330		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
74472-34-7	PCB Congener # 63	14		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
52663-58-8	PCB Congener # 64	42		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
32598-10-0	PCB Congener # 66	320		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
32598-13-3	PCB Congener # 77	19		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
52663-62-4	PCB Congener # 82	15		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	280		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
52663-60-2	PCB Congener # 84	20		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	140		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	34		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	250		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
52663-61-3	PCB Congener # 92	50		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
32598-14-4	PCB Congener #105	170		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
70424-68-9	PCB Congener #107	40		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	12		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
31508-00-6	PCB Congener #118	400		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
65510-44-3	PCB Congener #123	11		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
57465-28-8	PCB Congener #126	1.6	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	220		ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	62		ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	96		ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	220		ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	17		ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-72-6	PCB Congener #167	8.4	J, Q-2	ng/kg	10	4/19/12 12:36	6/05/12 23:24	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-68-0	PCB Congener #187	68		ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
2136-99-4	PCB Congener #202	14	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
40186-72-9	PCB Congener #206	14	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	4/19/12 12:36	6/12/12 19:58	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	4/19/12 12:36	6/12/12 19:58	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-427

Lab ID: E114504-12

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		3/15/12 11:45	3/16/12 10:05	ASB E100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-428

Lab ID: E114504-13

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	11	U, B-2	ng/kg	11	4/19/12 12:36	6/06/12 0:28	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
13029-08-8	PCB Congener # 4	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
34883-43-7	PCB Congener # 8	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-78-9	PCB Congener # 16	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
37680-66-3	PCB Congener # 17	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-73-4	PCB Congener # 19	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	90		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-85-8	PCB Congener # 22	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-76-7	PCB Congener # 27	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
16606-02-3	PCB Congener # 31	47		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-77-8	PCB Congener # 32	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-428

Lab ID: E114504-13

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-90-5	PCB Congener # 37	20		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
36559-22-5	PCB Congener # 42	32		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70362-46-8	PCB Congener # 43	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	190		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70362-47-9	PCB Congener # 48	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	150		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
35693-99-3	PCB Congener # 52	180		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
41464-43-1	PCB Congener # 56	66		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	16		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
33025-41-1	PCB Congener # 60	40		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	430		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
74472-34-7	PCB Congener # 63	19		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
52663-58-8	PCB Congener # 64	70		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
32598-10-0	PCB Congener # 66	360		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
73575-52-7	PCB Congener # 68	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-428

Lab ID: E114504-13

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
32598-13-3	PCB Congener # 77	23		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
52663-62-4	PCB Congener # 82	23		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	260		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
52663-60-2	PCB Congener # 84	20		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	150		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	34		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	240		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
52663-61-3	PCB Congener # 92	44		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	85		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
60145-21-3	PCB Congener #103	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
32598-14-4	PCB Congener #105	190		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
70424-68-9	PCB Congener #107	45		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	11		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	140		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-428

Lab ID: E114504-13

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	15		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
31508-00-6	PCB Congener #118	460		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
68194-12-7	PCB Congener #120	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
65510-44-3	PCB Congener #123	11		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
57465-28-8	PCB Congener #126	2.0	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	220		ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	73		ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	220		ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-428

Lab ID: E114504-13

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	23		ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-72-6	PCB Congener #167	9.3	J, Q-2	ng/kg	9.9	4/19/12 12:36	6/06/12 0:28	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	77		ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-68-0	PCB Congener #187	74		ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-428**

**Lab ID: E114504-13**

**Station ID: YAD-TIL-UP**

**Matrix: Fish**

**Date Collected: 9/15/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
2136-99-4	PCB Congener #202	11	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
40186-72-9	PCB Congener #206	21	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	4/19/12 12:36	6/12/12 21:02	EPA 1668A
2051-24-3	PCB Congener #209	99	U	ng/kg	99	4/19/12 12:36	6/12/12 21:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-428

Lab ID: E114504-13

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.3		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-429

Lab ID: E114504-14

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	12	U, B-2	ng/kg	12	4/19/12 12:36	6/06/12 1:31	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
13029-08-8	PCB Congener # 4	4.7	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	19	U, B-5	ng/kg	19	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-429

Lab ID: E114504-14

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	42		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	28		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
35693-99-3	PCB Congener # 52	43		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	55		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
52663-58-8	PCB Congener # 64	17		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
32598-10-0	PCB Congener # 66	49		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-429

Lab ID: E114504-14

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
32598-13-3	PCB Congener # 77	3.0	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	49		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	18		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	27		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	46	U, B-5	ng/kg	46	4/19/12 12:36	6/06/12 1:31	EPA 1668A
52663-61-3	PCB Congener # 92	10		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	26		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
32598-14-4	PCB Congener #105	25		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	45		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-429**

**Lab ID: E114504-14**

**Station ID: YAD-TIL-UP**

**Matrix: Fish**

**Date Collected: 9/15/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	1.4	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
31508-00-6	PCB Congener #118	70		ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
65510-44-3	PCB Congener #123	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	75		ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	90		ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-429

Lab ID: E114504-14

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-72-6	PCB Congener #167	10	U	ng/kg	10	4/19/12 12:36	6/06/12 1:31	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-68-0	PCB Congener #187	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-429

Lab ID: E114504-14

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
2136-99-4	PCB Congener #202	11	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
40186-72-9	PCB Congener #206	27	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	4/19/12 12:36	6/12/12 22:06	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	4/19/12 12:36	6/12/12 22:06	EPA 1668A





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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-429

Lab ID: E114504-14

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.4		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	11	U, B-2	ng/kg	11	4/19/12 12:36	6/06/12 2:35	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
37680-66-3	PCB Congener # 17	18		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-73-4	PCB Congener # 19	2.4	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	68		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	16		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
16606-02-3	PCB Congener # 31	33		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-90-5	PCB Congener # 37	11		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	48		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
36559-22-5	PCB Congener # 42	31		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	190		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	11		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70362-47-9	PCB Congener # 48	13		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	130		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
35693-99-3	PCB Congener # 52	200		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
41464-43-1	PCB Congener # 56	60		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	18		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
33025-41-1	PCB Congener # 60	27		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	300		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
52663-58-8	PCB Congener # 64	85		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
32598-10-0	PCB Congener # 66	270		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
32598-13-3	PCB Congener # 77	19		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
52663-62-4	PCB Congener # 82	21		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	270		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
52663-60-2	PCB Congener # 84	26		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	95		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	31		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	200		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
52663-61-3	PCB Congener # 92	44		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	96		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
32598-14-4	PCB Congener #105	160		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
70424-68-9	PCB Congener #107	29		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	210		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	11		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
31508-00-6	PCB Congener #118	370		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
65510-44-3	PCB Congener #123	11		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	250		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	70		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
51908-16-8	PCB Congener #146	56		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	130		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	270		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	22		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-72-6	PCB Congener #167	10		ng/kg	10	4/19/12 12:36	6/06/12 2:35	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	76		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-68-0	PCB Congener #187	92		ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
2136-99-4	PCB Congener #202	19	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
40186-72-9	PCB Congener #206	40	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
52663-77-1	PCB Congener #208	17	J, Q-2	ng/kg	50	4/19/12 12:36	6/12/12 23:09	EPA 1668A
2051-24-3	PCB Congener #209	41	J, Q-2	ng/kg	100	4/19/12 12:36	6/12/12 23:09	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-430

Lab ID: E114504-15

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		3/15/12 11:45	3/16/12 10:05	ASB E100





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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	11	U, B-2	ng/kg	11	4/19/12 12:36	6/06/12 3:39	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
13029-08-8	PCB Congener # 4	18		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
34883-43-7	PCB Congener # 8	32	U, B-5	ng/kg	32	4/19/12 12:36	6/06/12 3:39	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-78-9	PCB Congener # 16	24		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
37680-66-3	PCB Congener # 17	200		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-73-4	PCB Congener # 19	18		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	440		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	32		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-85-8	PCB Congener # 22	47		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
55712-37-3	PCB Congener # 25	33		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	45		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-76-7	PCB Congener # 27	24		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
16606-02-3	PCB Congener # 31	170		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-77-8	PCB Congener # 32	28		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-90-5	PCB Congener # 37	14		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	310		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
36559-22-5	PCB Congener # 42	530		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70362-46-8	PCB Congener # 43	37		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1800		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	80		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
41464-47-5	PCB Congener # 46	16		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70362-47-9	PCB Congener # 48	190		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1200		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	55		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
35693-99-3	PCB Congener # 52	1200		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
41464-43-1	PCB Congener # 56	170		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	140		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
33025-41-1	PCB Congener # 60	200		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1900		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
74472-34-7	PCB Congener # 63	98		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
52663-58-8	PCB Congener # 64	630		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
32598-10-0	PCB Congener # 66	2300		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
73575-53-8	PCB Congener # 67	17		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
73575-52-7	PCB Congener # 68	28		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	17		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
32598-13-3	PCB Congener # 77	79		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
41464-48-6	PCB Congener # 79	25		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70362-50-4	PCB Congener # 81	6.4	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
52663-62-4	PCB Congener # 82	88		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2100		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
52663-60-2	PCB Congener # 84	160		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	720		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1100		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	310		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1600		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
52663-61-3	PCB Congener # 92	300		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	740		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
32598-14-4	PCB Congener #105	1100		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
70424-68-9	PCB Congener #107	270		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	39		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1500		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	78		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
31508-00-6	PCB Congener #118	3500		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
68194-12-7	PCB Congener #120	16		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
76842-07-4	PCB Congener #122	22		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
65510-44-3	PCB Congener #123	95		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
57465-28-8	PCB Congener #126	12		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	200		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1700		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-66-8	PCB Congener #130	81		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
38380-05-1	PCB Congener #132	170		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	410		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52712-04-6	PCB Congener #141	78		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
51908-16-8	PCB Congener #146	330		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	850		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2300		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	8.1	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	150		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
74472-42-7	PCB Congener #158	110		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-45-0	PCB Congener #164	51		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-72-6	PCB Congener #167	93		ng/kg	10	4/19/12 12:36	6/06/12 3:39	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
35065-30-6	PCB Congener #170	130		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	73		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
38411-25-5	PCB Congener #174	79		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-67-9	PCB Congener #178	100		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-64-6	PCB Congener #179	110		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	550		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	380		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-68-0	PCB Congener #187	510		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
39635-31-9	PCB Congener #189	7.2	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
41411-64-7	PCB Congener #190	53		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
2136-99-4	PCB Congener #202	87		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-76-0	PCB Congener #203	190		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
74472-53-0	PCB Congener #205	6.6	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
40186-72-9	PCB Congener #206	110		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
52663-77-1	PCB Congener #208	52		ng/kg	50	4/19/12 12:36	6/13/12 0:13	EPA 1668A
2051-24-3	PCB Congener #209	99	J, Q-2	ng/kg	100	4/19/12 12:36	6/13/12 0:13	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-431

Lab ID: E114504-16

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.7		%		3/15/12 11:45	3/16/12 10:05	ASB E100





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Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	15	U, B-2	ng/kg	15	4/19/12 12:36	6/06/12 4:43	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
13029-08-8	PCB Congener # 4	28		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
34883-43-7	PCB Congener # 8	26	U, B-5	ng/kg	26	4/19/12 12:36	6/06/12 4:43	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
2050-68-2	PCB Congener # 15	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-78-9	PCB Congener # 16	18		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
37680-66-3	PCB Congener # 17	140		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-73-4	PCB Congener # 19	19		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	720		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	11		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-85-8	PCB Congener # 22	45		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
55712-37-3	PCB Congener # 25	40		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	74		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-76-7	PCB Congener # 27	17		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
16606-02-3	PCB Congener # 31	250		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-77-8	PCB Congener # 32	34		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-90-5	PCB Congener # 37	13		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	250		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
36559-22-5	PCB Congener # 42	470		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70362-46-8	PCB Congener # 43	67		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	2400		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	82		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
41464-47-5	PCB Congener # 46	15		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70362-47-9	PCB Congener # 48	150		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1900		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	39		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
35693-99-3	PCB Congener # 52	1500		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
41464-43-1	PCB Congener # 56	140		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	210		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
33025-41-1	PCB Congener # 60	450		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	3400		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
74472-34-7	PCB Congener # 63	210		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
52663-58-8	PCB Congener # 64	1200		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
32598-10-0	PCB Congener # 66	3900		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
73575-53-8	PCB Congener # 67	17		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
73575-52-7	PCB Congener # 68	53		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	33		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
32598-13-3	PCB Congener # 77	62		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
41464-48-6	PCB Congener # 79	18		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70362-50-4	PCB Congener # 81	12		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
52663-62-4	PCB Congener # 82	170		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	6000		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-60-2	PCB Congener # 84	200		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	1600		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1700		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	570		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	2300		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
52663-61-3	PCB Congener # 92	720		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	730		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
73575-55-0	PCB Congener # 94	13		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
60145-21-3	PCB Congener #103	26		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
32598-14-4	PCB Congener #105	2900		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
70424-68-9	PCB Congener #107	680		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	61		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2700		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	250		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
31508-00-6	PCB Congener #118	7700		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
68194-12-7	PCB Congener #120	33		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
76842-07-4	PCB Congener #122	50		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
65510-44-3	PCB Congener #123	230		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	650		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	4900		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-66-8	PCB Congener #130	270		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
38380-05-1	PCB Congener #132	370		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
35694-04-3	PCB Congener #133	86		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	51		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	990		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
35694-06-5	PCB Congener #137	220		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	63		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52712-04-6	PCB Congener #141	440		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
68194-14-9	PCB Congener #144	56		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
51908-16-8	PCB Congener #146	920		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1400		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	6600		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	28		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	510		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
74472-42-7	PCB Congener #158	310		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-72-6	PCB Congener #167	260		ng/kg	9.9	4/19/12 12:36	6/06/12 4:43	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
35065-30-6	PCB Congener #170	810		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	270		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-74-8	PCB Congener #172	170		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
38411-25-5	PCB Congener #174	360		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-70-4	PCB Congener #177	340		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-67-9	PCB Congener #178	290		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-64-6	PCB Congener #179	220		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	2300		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1500		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-68-0	PCB Congener #187	1900		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
39635-31-9	PCB Congener #189	38	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
41411-64-7	PCB Congener #190	220		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
35694-08-7	PCB Congener #194	440		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-78-2	PCB Congener #195	170		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
42740-50-1	PCB Congener #196	200		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	57		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	620		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
40186-71-8	PCB Congener #201	73		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
2136-99-4	PCB Congener #202	280		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-76-0	PCB Congener #203	1000		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
74472-53-0	PCB Congener #205	37	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
40186-72-9	PCB Congener #206	560		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-79-3	PCB Congener #207	56		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
52663-77-1	PCB Congener #208	240		ng/kg	50	4/19/12 12:36	6/13/12 1:17	EPA 1668A
2051-24-3	PCB Congener #209	400		ng/kg	99	4/19/12 12:36	6/13/12 1:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-432

Lab ID: E114504-17

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-433

Lab ID: E114504-18

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	12	U, B-2	ng/kg	12	4/19/12 12:36	6/06/12 12:17	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
13029-08-8	PCB Congener # 4	15		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
34883-43-7	PCB Congener # 8	18	U, B-5	ng/kg	18	4/19/12 12:36	6/06/12 12:17	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
37680-66-3	PCB Congener # 17	49		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	31		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-73-4	PCB Congener # 19	8.0	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	440		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	11		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-85-8	PCB Congener # 22	25		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
55712-37-3	PCB Congener # 25	22		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	34		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
16606-02-3	PCB Congener # 31	140		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-77-8	PCB Congener # 32	10		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-433**

**Lab ID: E114504-18**

**Station ID: YAD-TIL-UP**

**Matrix: Fish**

**Date Collected: 9/15/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-90-5	PCB Congener # 37	10		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	59		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
36559-22-5	PCB Congener # 42	280		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70362-46-8	PCB Congener # 43	28		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1100		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	15		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70362-47-9	PCB Congener # 48	33		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	960		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	13		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
35693-99-3	PCB Congener # 52	660		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
41464-43-1	PCB Congener # 56	57		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
41464-49-7	PCB Congener # 58	10		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
33025-41-1	PCB Congener # 60	240		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1800		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
74472-34-7	PCB Congener # 63	130		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
52663-58-8	PCB Congener # 64	550		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
32598-10-0	PCB Congener # 66	2600		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
73575-53-8	PCB Congener # 67	12		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
73575-52-7	PCB Congener # 68	26		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A





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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-433

Lab ID: E114504-18

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	20		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
32598-13-3	PCB Congener # 77	51		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
41464-48-6	PCB Congener # 79	13		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70362-50-4	PCB Congener # 81	7.7	J, Q-2	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2800		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
52663-60-2	PCB Congener # 84	20		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	830		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	560		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	240		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1200		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
52663-61-3	PCB Congener # 92	440		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	190		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
60145-21-3	PCB Congener #103	13		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
32598-14-4	PCB Congener #105	1600		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
70424-68-9	PCB Congener #107	360		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	38		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	900		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-433

Lab ID: E114504-18

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	120		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
31508-00-6	PCB Congener #118	4900		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
68194-12-7	PCB Congener #120	26		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
65510-44-3	PCB Congener #123	130		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	470		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	4100		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-66-8	PCB Congener #130	96		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
35694-04-3	PCB Congener #133	91		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	620		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
35694-06-5	PCB Congener #137	130		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	60		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52712-04-6	PCB Congener #141	210		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
51908-16-8	PCB Congener #146	900		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	570		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	7100		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-433

Lab ID: E114504-18

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	41		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	360		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
74472-42-7	PCB Congener #158	290		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-45-0	PCB Congener #164	120		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-72-6	PCB Congener #167	250		ng/kg	10	4/19/12 12:36	6/06/12 12:17	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
35065-30-6	PCB Congener #170	450		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	190		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-74-8	PCB Congener #172	95		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
38411-25-5	PCB Congener #174	140		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-67-9	PCB Congener #178	290		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-64-6	PCB Congener #179	85		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1700		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	990		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-68-0	PCB Congener #187	1700		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
39635-31-9	PCB Congener #189	26	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
41411-64-7	PCB Congener #190	160		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-433

Lab ID: E114504-18

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
35694-08-7	PCB Congener #194	250		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-78-2	PCB Congener #195	160		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
42740-50-1	PCB Congener #196	93		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	480		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
40186-71-8	PCB Congener #201	100		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
2136-99-4	PCB Congener #202	350		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-76-0	PCB Congener #203	1100		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
74472-53-0	PCB Congener #205	33	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
40186-72-9	PCB Congener #206	510		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
52663-77-1	PCB Congener #208	270		ng/kg	50	4/19/12 12:36	6/13/12 19:02	EPA 1668A
2051-24-3	PCB Congener #209	410		ng/kg	100	4/19/12 12:36	6/13/12 19:02	EPA 1668A



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## Physical Properties

**Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-433

Lab ID: E114504-18

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.8		%		3/15/12 11:45	3/16/12 10:05	ASB E100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	17	U, B-2	ng/kg	17	4/19/12 12:36	6/06/12 13:21	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
13029-08-8	PCB Congener # 4	110		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
25569-80-6	PCB Congener # 6	33		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
34883-43-7	PCB Congener # 8	76		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
2050-68-2	PCB Congener # 15	19	U, B-2	ng/kg	19	4/19/12 12:36	6/06/12 13:21	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
37680-66-3	PCB Congener # 17	390		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	400		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-73-4	PCB Congener # 19	78		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	2000		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-85-8	PCB Congener # 22	120		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
55712-37-3	PCB Congener # 25	120		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	200		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
16606-02-3	PCB Congener # 31	670		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-77-8	PCB Congener # 32	110		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-90-5	PCB Congener # 37	39		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	610		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
36559-22-5	PCB Congener # 42	1100		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
70362-46-8	PCB Congener # 43	170		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	5500		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	230		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
41464-47-5	PCB Congener # 46	56		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
70362-47-9	PCB Congener # 48	300		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	5000		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	110		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
35693-99-3	PCB Congener # 52	4000		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
41464-43-1	PCB Congener # 56	340		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
70424-67-8	PCB Congener # 57	19		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
41464-49-7	PCB Congener # 58	27		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	460		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
33025-41-1	PCB Congener # 60	960		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	7200		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-34-7	PCB Congener # 63	480		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
52663-58-8	PCB Congener # 64	2500		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
32598-10-0	PCB Congener # 66	8500		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
73575-53-8	PCB Congener # 67	42		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
73575-52-7	PCB Congener # 68	90		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A





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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	81		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
32598-13-3	PCB Congener # 77	150		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
41464-48-6	PCB Congener # 79	35		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
70362-50-4	PCB Congener # 81	25		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
52663-62-4	PCB Congener # 82	420		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	8700		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-60-2	PCB Congener # 84	510		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	3000		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	2900		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	1000		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
73575-57-2	PCB Congener # 89	23		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	4500		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-61-3	PCB Congener # 92	1400		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1900		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
73575-55-0	PCB Congener # 94	26		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
73575-54-9	PCB Congener # 96	13		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
60145-21-3	PCB Congener #103	53		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
32598-14-4	PCB Congener #105	4600		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
70424-68-9	PCB Congener #107	990		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	140		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	6100		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
39635-32-0	PCB Congener #111	13		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A





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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	380		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
31508-00-6	PCB Congener #118	11000		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
68194-12-7	PCB Congener #120	51		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
76842-07-4	PCB Congener #122	100		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
65510-44-3	PCB Congener #123	320		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	940		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	6600		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-66-8	PCB Congener #130	310		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38380-05-1	PCB Congener #132	550		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
35694-04-3	PCB Congener #133	140		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	86		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1300		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38411-22-2	PCB Congener #136	81		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
35694-06-5	PCB Congener #137	270		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	96		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52712-04-6	PCB Congener #141	450		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
68194-14-9	PCB Congener #144	91		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
51908-16-8	PCB Congener #146	1200		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	2500		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	8500		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	45		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	680		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
74472-42-7	PCB Congener #158	480		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-45-0	PCB Congener #164	260		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-72-6	PCB Congener #167	350		ng/kg	10	4/19/12 12:36	6/06/12 13:21	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
35065-30-6	PCB Congener #170	690		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	230		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-74-8	PCB Congener #172	120		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
38411-25-5	PCB Congener #174	320		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-70-4	PCB Congener #177	320		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-67-9	PCB Congener #178	330		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-64-6	PCB Congener #179	220		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	2200		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1200		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-68-0	PCB Congener #187	2100		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
39635-31-9	PCB Congener #189	37	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
41411-64-7	PCB Congener #190	190		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
35694-08-7	PCB Congener #194	410		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-78-2	PCB Congener #195	230		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
42740-50-1	PCB Congener #196	150		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	56		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	620		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
40186-71-8	PCB Congener #201	100		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
2136-99-4	PCB Congener #202	300		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-76-0	PCB Congener #203	1000		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
74472-53-0	PCB Congener #205	38	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
40186-72-9	PCB Congener #206	390		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
52663-77-1	PCB Congener #208	230		ng/kg	50	4/19/12 12:36	6/13/12 20:06	EPA 1668A
2051-24-3	PCB Congener #209	270		ng/kg	100	4/19/12 12:36	6/13/12 20:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-434

Lab ID: E114504-19

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.9		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	14	U, B-2	ng/kg	14	4/19/12 12:36	6/06/12 14:25	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
13029-08-8	PCB Congener # 4	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
16605-91-7	PCB Congener # 5	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
25569-80-6	PCB Congener # 6	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
33284-50-3	PCB Congener # 7	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
34883-43-7	PCB Congener # 8	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
34883-39-1	PCB Congener # 9	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
33146-45-1	PCB Congener # 10	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
2050-67-1	PCB Congener # 11	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
34883-41-5	PCB Congener # 14	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
37680-66-3	PCB Congener # 17	71		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	550		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
16606-02-3	PCB Congener # 31	190		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-90-5	PCB Congener # 37	12		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	98		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
36559-22-5	PCB Congener # 42	280		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70362-46-8	PCB Congener # 43	49		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1700		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	26		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70362-47-9	PCB Congener # 48	46		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1400		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	14		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
35693-99-3	PCB Congener # 52	670		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
41464-43-1	PCB Congener # 56	100		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
41464-49-7	PCB Congener # 58	15		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	160		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
33025-41-1	PCB Congener # 60	360		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	2600		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
74472-34-7	PCB Congener # 63	190		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
52663-58-8	PCB Congener # 64	890		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
32598-10-0	PCB Congener # 66	3300		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
73575-53-8	PCB Congener # 67	12		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
73575-52-7	PCB Congener # 68	34		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A



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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	31		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
32598-13-3	PCB Congener # 77	48		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70362-50-4	PCB Congener # 81	10		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
52663-62-4	PCB Congener # 82	39		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	3900		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
52663-60-2	PCB Congener # 84	44		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	1200		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	830		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	320		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1300		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
52663-61-3	PCB Congener # 92	600		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	270		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
60145-21-3	PCB Congener #103	18		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
32598-14-4	PCB Congener #105	2200		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
70424-68-9	PCB Congener #107	460		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	47		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1900		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A





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### PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	180		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
31508-00-6	PCB Congener #118	5800		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
68194-12-7	PCB Congener #120	20		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
76842-07-4	PCB Congener #122	50		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
65510-44-3	PCB Congener #123	190		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	360		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2400		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-66-8	PCB Congener #130	85		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
35694-04-3	PCB Congener #133	51		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	430		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
35694-06-5	PCB Congener #137	130		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52712-04-6	PCB Congener #141	230		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
51908-16-8	PCB Congener #146	480		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	510		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2800		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A





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## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	13		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	310		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
74472-42-7	PCB Congener #158	180		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-45-0	PCB Congener #164	100		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-72-6	PCB Congener #167	150		ng/kg	10	4/19/12 12:36	6/06/12 14:25	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
35065-30-6	PCB Congener #170	460		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-74-8	PCB Congener #172	110		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
38411-25-5	PCB Congener #174	180		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-67-9	PCB Congener #178	190		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-64-6	PCB Congener #179	73		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1200		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	550		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-68-0	PCB Congener #187	990		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
39635-31-9	PCB Congener #189	21	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
41411-64-7	PCB Congener #190	140		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
35694-08-7	PCB Congener #194	250		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-78-2	PCB Congener #195	99		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
42740-50-1	PCB Congener #196	120		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	420		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
2136-99-4	PCB Congener #202	130		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-76-0	PCB Congener #203	530		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
74472-53-0	PCB Congener #205	20	J, Q-2	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
40186-72-9	PCB Congener #206	270		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
52663-77-1	PCB Congener #208	130		ng/kg	50	4/19/12 12:36	6/13/12 21:10	EPA 1668A
2051-24-3	PCB Congener #209	210		ng/kg	100	4/19/12 12:36	6/13/12 21:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-435

Lab ID: E114504-20

Station ID: YAD-TIL-UP

Matrix: Fish

Date Collected: 9/15/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.0		%		3/15/12 11:45	3/16/12 10:05	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Blank (1204099-BLK1)**

Prepared: 04/19/12 Analyzed: 06/04/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	74.995		ng/kg	197.04		38.1	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	79.310		"	197.04		40.3	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	71.842		"	197.04		36.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	108.43		"	197.04		55.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	87.527		"	197.04		44.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	139.39		"	197.04		70.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	86.049		"	197.04		43.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	139.78		"	197.04		70.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	122.72		"	197.04		62.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	111.94		"	197.04		56.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	137.32		"	197.04		69.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	131.09		"	197.04		66.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	135.31		"	197.04		68.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	135.21		"	197.04		68.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	144.93		"	197.04		73.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	113.83		"	197.04		57.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	297.60		"	394.09		75.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	146.19		"	197.04		74.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	140.99		"	197.04		71.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	161.28		"	197.04		81.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	148.37		"	197.04		75.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	175.07		"	197.04		88.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	144.73		"	197.04		73.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	146.31		"	197.04		74.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	140.30		"	197.04		71.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	122.27		"	197.04		62.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	152.87		"	193.10		79.2	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	151.82		"	191.13		79.4	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	172.51		"	179.31		96.2	30-135			
PCB Congener # 1	18	9.9	"							B-4
PCB Congener # 2	U	9.9	"							U
PCB Congener # 3	14	9.9	"							B-3
PCB Congener # 4	U	9.9	"							U
PCB Congener # 5	U	9.9	"							U
PCB Congener # 6	U	9.9	"							U
PCB Congener # 7	U	9.9	"							U
PCB Congener # 8	U	9.9	"							U
PCB Congener # 9	U	9.9	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Blank (1204099-BLK1)**

Prepared: 04/19/12 Analyzed: 06/04/12

PCB Congener # 10	U	9.9	ng/kg							U
PCB Congener # 11	U	9.9	"							U
PCB Congener # 12 and/or 13	U	9.9	"							U
PCB Congener # 14	U	9.9	"							U
PCB Congener # 15	5.3	9.9	"							B-4, Q-2, J
PCB Congener # 16	U	9.9	"							U
PCB Congener # 17	U	9.9	"							U
PCB Congener # 18 and/or 30	U	9.9	"							U
PCB Congener # 19	U	9.9	"							U
PCB Congener # 20 and/or 28	U	9.9	"							U
PCB Congener # 21 and/or 33	U	9.9	"							U
PCB Congener # 22	U	9.9	"							U
PCB Congener # 23	U	9.9	"							U
PCB Congener # 24	U	9.9	"							U
PCB Congener # 25	U	9.9	"							U
PCB Congener # 26 and/or 29	U	9.9	"							U
PCB Congener # 27	U	9.9	"							U
PCB Congener # 31	U	9.9	"							U
PCB Congener # 32	U	9.9	"							U
PCB Congener # 34	U	9.9	"							U
PCB Congener # 35	U	9.9	"							U
PCB Congener # 36	U	9.9	"							U
PCB Congener # 37	U	9.9	"							U
PCB Congener # 38	U	9.9	"							U
PCB Congener # 39	U	9.9	"							U
PCB Congener # 40 and/or 41,71	U	9.9	"							U
PCB Congener # 42	U	9.9	"							U
PCB Congener # 43	U	9.9	"							U
PCB Congener # 44 and/or 47,65	U	9.9	"							U
PCB Congener # 45 and/or 51	U	9.9	"							U
PCB Congener # 46	U	9.9	"							U
PCB Congener # 48	U	9.9	"							U
PCB Congener # 49 and/or 69	U	9.9	"							U
PCB Congener # 50 and/or 53	U	9.9	"							U
PCB Congener # 52	U	9.9	"							U
PCB Congener # 54	U	9.9	"							U
PCB Congener # 55	U	9.9	"							U
PCB Congener # 56	U	9.9	"							U
PCB Congener # 57	U	9.9	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Blank (1204099-BLK1)**

Prepared: 04/19/12 Analyzed: 06/04/12

PCB Congener # 58	U	9.9	ng/kg							U
PCB Congener # 59 and/or 62,75	U	9.9	"							U
PCB Congener # 60	U	9.9	"							U
PCB Congener # 61 and/or 70,74,76	U	9.9	"							U
PCB Congener # 63	U	9.9	"							U
PCB Congener # 64	U	9.9	"							U
PCB Congener # 66	U	9.9	"							U
PCB Congener # 67	U	9.9	"							U
PCB Congener # 68	U	9.9	"							U
PCB Congener # 72	U	9.9	"							U
PCB Congener # 73	U	9.9	"							U
PCB Congener # 77	U	9.9	"							U
PCB Congener # 78	U	9.9	"							U
PCB Congener # 79	U	9.9	"							U
PCB Congener # 80	U	9.9	"							U
PCB Congener # 81	U	9.9	"							U
PCB Congener # 82	U	9.9	"							U
PCB Congener # 83 and/or 99	U	9.9	"							U
PCB Congener # 84	U	9.9	"							U
PCB Congener # 85 and/or 116,117	U	9.9	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	9.9	"							U
PCB Congener # 88 and/or 91	U	9.9	"							U
PCB Congener # 89	U	9.9	"							U
PCB Congener # 90 and/or 101,113	U	9.9	"							U
PCB Congener # 92	U	9.9	"							U
PCB Congener # 93 and/or 95,98,100,102	U	9.9	"							U
PCB Congener # 94	U	9.9	"							U
PCB Congener # 96	U	9.9	"							U
PCB Congener #103	U	9.9	"							U
PCB Congener #104	U	9.9	"							U
PCB Congener #105	4.3	9.9	"							B-3, Q-2, J
PCB Congener #106	U	9.9	"							U
PCB Congener #107	U	9.9	"							U
PCB Congener #108 and/or 124	U	9.9	"							U
PCB Congener #110 and/or 115	U	9.9	"							U
PCB Congener #111	U	9.9	"							U
PCB Congener #112	U	9.9	"							U
PCB Congener #114	U	9.9	"							U
PCB Congener #118	11	9.9	"							B-3



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Blank (1204099-BLK1)**

Prepared: 04/19/12 Analyzed: 06/04/12

PCB Congener #120	U	9.9	ng/kg							U
PCB Congener #121	U	9.9	"							U
PCB Congener #122	U	9.9	"							U
PCB Congener #123	U	9.9	"							U
PCB Congener #126	U	9.9	"							U
PCB Congener #127	U	9.9	"							U
PCB Congener #128 and/or 166	U	49	"							U
PCB Congener #129 and/or 138,160,163	U	49	"							U
PCB Congener #130	U	49	"							U
PCB Congener #131	U	49	"							U
PCB Congener #132	U	49	"							U
PCB Congener #133	U	49	"							U
PCB Congener #134 and/or 143	U	49	"							U
PCB Congener #135 and/or 151,154	U	49	"							U
PCB Congener #136	U	49	"							U
PCB Congener #137	U	49	"							U
PCB Congener #139 and/or 140	U	49	"							U
PCB Congener #141	U	49	"							U
PCB Congener #142	U	49	"							U
PCB Congener #144	U	49	"							U
PCB Congener #145	U	49	"							U
PCB Congener #146	U	49	"							U
PCB Congener #147 and/or 149	U	49	"							U
PCB Congener #148	U	49	"							U
PCB Congener #150	U	49	"							U
PCB Congener #152	U	49	"							U
PCB Congener #153 and/or 168	U	49	"							U
PCB Congener #155	U	9.9	"							U
PCB Congener #156 and/or 157	1.8	9.9	"							B-3, Q-2, J
PCB Congener #158	U	49	"							U
PCB Congener #159	U	49	"							U
PCB Congener #161	U	49	"							U
PCB Congener #162	U	49	"							U
PCB Congener #164	U	49	"							U
PCB Congener #165	U	49	"							U
PCB Congener #167	0.81	9.9	"							B-3, Q-2, J
PCB Congener #169	U	49	"							U
PCB Congener #170	U	49	"							U
PCB Congener #171 and/or 173	U	49	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Blank (1204099-BLK1)**

Prepared: 04/19/12 Analyzed: 06/11/12

PCB Congener #172	U	49	ng/kg							U
PCB Congener #174	U	49	"							U
PCB Congener #175	U	49	"							U
PCB Congener #176	U	49	"							U
PCB Congener #177	U	49	"							U
PCB Congener #178	U	49	"							U
PCB Congener #179	U	49	"							U
PCB Congener #180 and/or 193	U	49	"							U
PCB Congener #181	U	49	"							U
PCB Congener #182	U	49	"							U
PCB Congener #183 and/or 185	U	49	"							U
PCB Congener #184	U	49	"							U
PCB Congener #186	U	49	"							U
PCB Congener #187	U	49	"							U
PCB Congener #188	U	49	"							U
PCB Congener #189	U	49	"							U
PCB Congener #190	U	49	"							U
PCB Congener #191	U	49	"							U
PCB Congener #192	U	49	"							U
PCB Congener #194	U	49	"							U
PCB Congener #195	U	49	"							U
PCB Congener #196	U	49	"							U
PCB Congener #197 and/or 200	U	49	"							U
PCB Congener #198 and/or 199	U	49	"							U
PCB Congener #201	U	49	"							U
PCB Congener #202	U	49	"							U
PCB Congener #203	U	49	"							U
PCB Congener #204	U	49	"							U
PCB Congener #205	U	49	"							U
PCB Congener #206	U	49	"							U
PCB Congener #207	U	49	"							U
PCB Congener #208	U	49	"							U
PCB Congener #209	U	99	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**LCS (1204099-BS1)**

Prepared: 04/19/12 Analyzed: 06/04/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	73.467		ng/kg	201.00		36.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	78.774		"	201.00		39.2	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	84.201		"	201.00		41.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	82.714		"	201.00		41.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	87.296		"	201.00		43.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	109.69		"	201.00		54.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	96.603		"	201.00		48.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	103.64		"	201.00		51.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	97.126		"	201.00		48.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	99.638		"	201.00		49.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	101.69		"	201.00		50.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	98.312		"	201.00		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	101.71		"	201.00		50.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	94.191		"	201.00		46.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	108.04		"	201.00		53.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	84.382		"	201.00		42.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	194.87		"	402.01		48.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	88.583		"	201.00		44.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	112.26		"	201.00		55.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	125.13		"	201.00		62.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	130.17		"	201.00		64.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	112.46		"	201.00		56.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	71.015		"	201.00		35.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	179.24		"	201.00		89.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	82.472		"	201.00		41.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	265.93		"	201.00		132	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	136.28		"	196.98		69.2	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	158.07		"	194.97		81.1	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	176.58		"	182.91		96.5	40-125			
PCB Congener # 1	110	10	"	100.50		111	50-150			
PCB Congener # 3	110	10	"	100.50		110	50-150			
PCB Congener # 4	100	10	"	100.50		99.6	50-150			
PCB Congener # 15	96	10	"	100.50		95.3	50-150			
PCB Congener # 19	93	10	"	100.50		92.6	50-150			
PCB Congener # 37	96	10	"	100.50		95.7	50-150			
PCB Congener # 54	100	10	"	100.50		101	50-150			
PCB Congener # 77	92	10	"	100.50		91.9	50-150			
PCB Congener # 81	99	10	"	100.50		98.2	50-150			



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D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**LCS (1204099-BS1)**

Prepared: 04/19/12 Analyzed: 06/04/12

PCB Congener #104	95	10	ng/kg	100.50		94.6	50-150			
PCB Congener #105	99	10	"	100.50		99.0	50-150			
PCB Congener #114	97	10	"	100.50		96.7	50-150			
PCB Congener #118	110	10	"	100.50		109	50-150			
PCB Congener #123	96	10	"	100.50		96.0	50-150			
PCB Congener #126	87	10	"	100.50		86.5	50-150			
PCB Congener #155	99	10	"	100.50		98.1	50-150			
PCB Congener #156 and/or 157	180	10	"	201.00		91.9	50-150			
PCB Congener #167	100	10	"	100.50		100	50-150			
PCB Congener #169	97	50	"	100.50		96.2	50-150			
PCB Congener #188	98	50	"	100.50		97.2	50-150			
PCB Congener #189	110	10	"	100.50		106	50-150			
PCB Congener #202	97	50	"	100.50		96.4	50-150			
PCB Congener #205	97	10	"	100.50		96.6	50-150			
PCB Congener #206	120	10	"	100.50		118	50-150			
PCB Congener #208	91	10	"	100.50		90.5	50-150			
PCB Congener #209	120	20	"	100.50		124	50-150			

**LCS Dup (1204099-BSD1)**

Prepared: 04/19/12 Analyzed: 06/04/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	79.525		ng/kg	198.02		40.2	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	88.178		"	198.02		44.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	96.337		"	198.02		48.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	107.29		"	198.02		54.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	94.733		"	198.02		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	102.04		"	198.02		51.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	88.891		"	198.02		44.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	97.564		"	198.02		49.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	86.614		"	198.02		43.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	100.83		"	198.02		50.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	94.594		"	198.02		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	91.307		"	198.02		46.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	92.832		"	198.02		46.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	90.059		"	198.02		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	105.62		"	198.02		53.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	83.584		"	198.02		42.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	179.35		"	396.04		45.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	85.406		"	198.02		43.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	95.446		"	198.02		48.2	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**LCS Dup (1204099-BSD1)**

Prepared: 04/19/12 Analyzed: 06/11/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	138.32		ng/kg	198.02		69.8	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	118.48		"	198.02		59.8	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	116.53		"	198.02		58.9	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	70.277		"	198.02		35.5	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	200.24		"	198.02		101	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	84.693		"	198.02		42.8	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	268.32		"	198.02		136	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	126.46		"	194.06		65.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	163.80		"	192.08		85.3	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	172.93		"	180.20		96.0	40-125			
PCB Congener # 1	110	9.9	"	99.010		111	50-150	1.48	30	
PCB Congener # 3	110	9.9	"	99.010		108	50-150	3.51	30	
PCB Congener # 4	96	9.9	"	99.010		96.7	50-150	4.45	30	
PCB Congener # 15	100	9.9	"	99.010		101	50-150	4.65	30	
PCB Congener # 19	94	9.9	"	99.010		94.6	50-150	0.598	30	
PCB Congener # 37	93	9.9	"	99.010		93.7	50-150	3.57	30	
PCB Congener # 54	95	9.9	"	99.010		96.2	50-150	5.99	30	
PCB Congener # 77	86	9.9	"	99.010		86.9	50-150	7.04	30	
PCB Congener # 81	90	9.9	"	99.010		90.8	50-150	9.35	30	
PCB Congener #104	88	9.9	"	99.010		88.6	50-150	8.09	30	
PCB Congener #105	92	9.9	"	99.010		93.4	50-150	7.32	30	
PCB Congener #114	89	9.9	"	99.010		90.1	50-150	8.58	30	
PCB Congener #118	110	9.9	"	99.010		108	50-150	2.30	30	
PCB Congener #123	90	9.9	"	99.010		90.9	50-150	6.98	30	
PCB Congener #126	81	9.9	"	99.010		81.9	50-150	6.91	30	
PCB Congener #155	87	9.9	"	99.010		87.7	50-150	12.7	30	
PCB Congener #156 and/or 157	180	9.9	"	198.02		89.1	50-150	4.50	30	
PCB Congener #167	91	9.9	"	99.010		92.3	50-150	9.54	30	
PCB Congener #169	89	50	"	99.010		90.1	50-150	8.04	30	
PCB Congener #188	83	50	"	99.010		84.3	50-150	15.7	30	
PCB Congener #189	110	9.9	"	99.010		113	50-150	4.48	30	
PCB Congener #202	87	50	"	99.010		87.7	50-150	10.9	30	
PCB Congener #205	91	9.9	"	99.010		91.9	50-150	6.44	30	
PCB Congener #206	110	9.9	"	99.010		107	50-150	10.8	30	
PCB Congener #208	87	9.9	"	99.010		88.2	50-150	4.03	30	
PCB Congener #209	120	20	"	99.010		118	50-150	6.18	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Duplicate (1204099-DUP1)**

**Source: E114504-04**

Prepared: 04/19/12 Analyzed: 06/05/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	84.897		ng/kg	196.66		43.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	89.695		"	196.66		45.6	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	120.79		"	196.66		61.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	105.49		"	196.66		53.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	84.464		"	196.66		43.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	95.752		"	196.66		48.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	115.56		"	196.66		58.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	92.507		"	196.66		47.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	88.437		"	196.66		45.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	146.23		"	196.66		74.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	100.00		"	196.66		50.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.00		"	196.66		51.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	100.83		"	196.66		51.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	96.932		"	196.66		49.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	109.12		"	196.66		55.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	121.06		"	196.66		61.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	205.05		"	393.31		52.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	98.800		"	196.66		50.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	123.89		"	196.66		63.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	154.57		"	196.66		78.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	162.24		"	196.66		82.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	163.72		"	196.66		83.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	132.94		"	196.66		67.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	167.75		"	196.66		85.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	129.11		"	196.66		65.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	122.12		"	196.66		62.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	118.21		"	192.72		61.3	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	156.09		"	190.76		81.8	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	182.91		"	178.96		102	30-135			
PCB Congener # 1	U	9.8	"		U				30	U
PCB Congener # 2	U	9.8	"		U				30	U
PCB Congener # 3	U	9.8	"		U				30	U
PCB Congener # 4	2.9	9.8	"		3.1			5.61	30	J, Q-2
PCB Congener # 5	U	9.8	"		U				30	U
PCB Congener # 6	U	9.8	"		U				30	U
PCB Congener # 7	U	9.8	"		U				30	U
PCB Congener # 8	U	9.8	"		U				30	U
PCB Congener # 9	U	9.8	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Duplicate (1204099-DUP1)**

**Source: E114504-04**

Prepared: 04/19/12 Analyzed: 06/05/12

PCB Congener # 10	U	9.8	ng/kg		U				30	U
PCB Congener # 11	U	9.8	"		U				30	U
PCB Congener # 12 and/or 13	U	9.8	"		U				30	U
PCB Congener # 14	U	9.8	"		U				30	U
PCB Congener # 15	U	9.8	"		U				30	U
PCB Congener # 16	U	49	"		U				30	U
PCB Congener # 17	U	49	"		U				30	U
PCB Congener # 18 and/or 30	U	49	"		U				30	U
PCB Congener # 19	U	49	"		U				30	U
PCB Congener # 20 and/or 28	57	49	"		70			19.2	30	
PCB Congener # 21 and/or 33	U	49	"		U				30	U
PCB Congener # 22	U	49	"		U				30	U
PCB Congener # 23	U	49	"		U				30	U
PCB Congener # 24	U	49	"		U				30	U
PCB Congener # 25	U	49	"		U				30	U
PCB Congener # 26 and/or 29	U	49	"		U				30	U
PCB Congener # 27	U	49	"		U				30	U
PCB Congener # 31	U	49	"		U				30	U
PCB Congener # 32	U	49	"		U				30	U
PCB Congener # 34	U	49	"		U				30	U
PCB Congener # 35	U	49	"		U				30	U
PCB Congener # 36	U	49	"		U				30	U
PCB Congener # 37	10	9.8	"		12			16.9	30	
PCB Congener # 38	U	49	"		U				30	U
PCB Congener # 39	U	49	"		U				30	U
PCB Congener # 40 and/or 41,71	50	9.8	"		53			6.14	30	
PCB Congener # 42	40	9.8	"		44			9.28	30	
PCB Congener # 43	U	9.8	"		U				30	U
PCB Congener # 44 and/or 47,65	200	9.8	"		220			9.59	30	
PCB Congener # 45 and/or 51	U	9.8	"		U				30	U
PCB Congener # 46	U	9.8	"		U				30	U
PCB Congener # 48	13	9.8	"		15			14.7	30	
PCB Congener # 49 and/or 69	140	9.8	"		150			9.75	30	
PCB Congener # 50 and/or 53	U	9.8	"		U				30	U
PCB Congener # 52	240	9.8	"		250			4.57	30	
PCB Congener # 54	U	9.8	"		U				30	U
PCB Congener # 55	U	9.8	"		U				30	U
PCB Congener # 56	49	9.8	"		60			20.9	30	
PCB Congener # 57	U	9.8	"		U				30	U
PCB Congener # 58	U	9.8	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Duplicate (1204099-DUP1)**

**Source: E114504-04**

Prepared: 04/19/12 Analyzed: 06/05/12

PCB Congener # 59 and/or 62,75	21	9.8	ng/kg		23			10.4	30	
PCB Congener # 60	30	9.8	"		36			18.9	30	
PCB Congener # 61 and/or 70,74,76	310	9.8	"		360			16.6	30	
PCB Congener # 63	13	9.8	"		14			12.1	30	
PCB Congener # 64	87	9.8	"		91			4.15	30	
PCB Congener # 66	280	9.8	"		320			14.8	30	
PCB Congener # 67	U	9.8	"		U				30	U
PCB Congener # 68	U	9.8	"		U				30	U
PCB Congener # 72	U	9.8	"		U				30	U
PCB Congener # 73	U	9.8	"		U				30	U
PCB Congener # 77	18	9.8	"		20			9.37	30	
PCB Congener # 78	U	9.8	"		U				30	U
PCB Congener # 79	U	9.8	"		U				30	U
PCB Congener # 80	U	9.8	"		U				30	U
PCB Congener # 81	U	9.8	"		U				30	U
PCB Congener # 82	31	9.8	"		32			0.618	30	
PCB Congener # 83 and/or 99	520	9.8	"		590			12.0	30	
PCB Congener # 84	52	9.8	"		58			10.8	30	
PCB Congener # 85 and/or 116,117	170	9.8	"		190			9.37	30	
PCB Congener # 86 and/or 87,97,109,119,125	240	9.8	"		270			11.5	30	
PCB Congener # 88 and/or 91	69	9.8	"		77			11.3	30	
PCB Congener # 89	U	9.8	"		U				30	U
PCB Congener # 90 and/or 101,113	550	9.8	"		580			5.81	30	
PCB Congener # 92	150	9.8	"		160			10.0	30	
PCB Congener # 93 and/or 95,98,100,102	240	9.8	"		280			16.8	30	
PCB Congener # 94	U	9.8	"		U				30	U
PCB Congener # 96	U	9.8	"		U				30	U
PCB Congener #103	U	9.8	"		U				30	U
PCB Congener #104	U	9.8	"		U				30	U
PCB Congener #105	200	9.8	"		230			14.7	30	
PCB Congener #106	U	9.8	"		U				30	U
PCB Congener #107	56	9.8	"		65			14.6	30	
PCB Congener #108 and/or 124	16	9.8	"		19			14.2	30	
PCB Congener #110 and/or 115	410	9.8	"		460			12.2	30	
PCB Congener #111	U	9.8	"		U				30	U
PCB Congener #112	U	9.8	"		U				30	U
PCB Congener #114	12	9.8	"		13			9.86	30	
PCB Congener #118	610	9.8	"		680			11.3	30	
PCB Congener #120	U	9.8	"		U				30	U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

Duplicate (1204099-DUP1)	Source: E114504-04			Prepared: 04/19/12 Analyzed: 06/05/12			
PCB Congener #121	U	9.8	ng/kg	U	30	U	
PCB Congener #122	U	9.8	"	U	30	U	
PCB Congener #123	12	9.8	"	13	7.58	30	
PCB Congener #126	U	9.8	"	U	30	U	
PCB Congener #127	U	9.8	"	U	30	U	
PCB Congener #128 and/or 166	200	49	"	230	13.4	30	
PCB Congener #129 and/or 138,160,163	1600	49	"	2000	21.2	30	
PCB Congener #130	87	49	"	98	11.7	30	
PCB Congener #131	U	49	"	U	30	U	
PCB Congener #132	230	49	"	250	11.8	30	
PCB Congener #133	U	49	"	U	30	U	
PCB Congener #134 and/or 143	U	49	"	U	30	U	
PCB Congener #135 and/or 151,154	610	49	"	690	12.4	30	
PCB Congener #136	100	49	"	110	1.03	30	
PCB Congener #137	U	49	"	51	30	U	
PCB Congener #139 and/or 140	U	49	"	U	30	U	
PCB Congener #141	240	49	"	310	25.7	30	
PCB Congener #142	U	49	"	U	30	U	
PCB Congener #144	U	49	"	61	30	U	
PCB Congener #145	U	49	"	U	30	U	
PCB Congener #146	410	49	"	470	13.0	30	
PCB Congener #147 and/or 149	930	49	"	1400	40.8	30	J, QM-4
PCB Congener #148	U	49	"	U	30	U	
PCB Congener #150	U	49	"	U	30	U	
PCB Congener #152	U	49	"	U	30	U	
PCB Congener #153 and/or 168	2300	49	"	2700	17.1	30	
PCB Congener #155	12	9.8	"	12	2.98	30	
PCB Congener #156 and/or 157	100	9.8	"	120	17.7	30	
PCB Congener #158	120	49	"	140	15.5	30	
PCB Congener #159	U	49	"	U	30	U	
PCB Congener #161	U	49	"	U	30	U	
PCB Congener #162	U	49	"	U	30	U	
PCB Congener #164	110	49	"	100	6.11	30	
PCB Congener #165	U	49	"	U	30	U	
PCB Congener #167	59	9.8	"	71	18.2	30	
PCB Congener #169	U	49	"	U	30	U	
PCB Congener #170	300	49	"	450	40.1	30	J, QM-4
PCB Congener #171 and/or 173	140	49	"	160	12.4	30	
PCB Congener #172	88	49	"	94	5.71	30	
PCB Congener #174	220	49	"	240	8.24	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**Duplicate (1204099-DUP1)**

**Source: E114504-04**

Prepared: 04/19/12 Analyzed: 06/11/12

PCB Congener #175	U	49	ng/kg		U				30	U
PCB Congener #176	U	49	"		U				30	U
PCB Congener #177	190	49	"		190		2.53		30	
PCB Congener #178	170	49	"		230		29.0		30	
PCB Congener #179	150	49	"		190		26.4		30	
PCB Congener #180 and/or 193	1100	49	"		1300		16.3		30	
PCB Congener #181	U	49	"		U				30	U
PCB Congener #182	U	49	"		U				30	U
PCB Congener #183 and/or 185	870	49	"		990		13.0		30	
PCB Congener #184	U	49	"		U				30	U
PCB Congener #186	U	49	"		U				30	U
PCB Congener #187	980	49	"		1300		25.1		30	
PCB Congener #188	U	49	"		U				30	U
PCB Congener #189	19	49	"		19		1.39		30	J, Q-2
PCB Congener #190	89	49	"		95		6.10		30	
PCB Congener #191	U	49	"		U				30	U
PCB Congener #192	U	49	"		U				30	U
PCB Congener #194	210	49	"		230		12.3		30	
PCB Congener #195	86	49	"		110		22.6		30	
PCB Congener #196	93	49	"		84		10.0		30	
PCB Congener #197 and/or 200	U	49	"		U				30	U
PCB Congener #198 and/or 199	280	49	"		350		22.3		30	
PCB Congener #201	53	49	"		54		0.946		30	
PCB Congener #202	140	49	"		140		1.90		30	
PCB Congener #203	470	49	"		490		5.16		30	
PCB Congener #204	U	49	"		U				30	U
PCB Congener #205	16	49	"		19		16.9		30	J, Q-2
PCB Congener #206	240	49	"		300		19.9		30	
PCB Congener #207	U	49	"		U				30	U
PCB Congener #208	120	49	"		110		2.72		30	
PCB Congener #209	190	98	"		210		9.47		30	





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**MRL Verification (1204099-PS1)**

Prepared: 04/19/12 Analyzed: 06/05/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	86.621		ng/kg	197.63		43.8	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	93.676		"	197.63		47.4	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	114.98		"	197.63		58.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	104.01		"	197.63		52.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	101.01		"	197.63		51.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	103.81		"	197.63		52.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	105.91		"	197.63		53.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	102.25		"	197.63		51.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	93.755		"	197.63		47.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	126.46		"	197.63		64.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	96.640		"	197.63		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	97.767		"	197.63		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	96.206		"	197.63		48.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	96.937		"	197.63		49.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	107.87		"	197.63		54.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	107.85		"	197.63		54.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	202.79		"	395.26		51.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	91.502		"	197.63		46.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	150.59		"	197.63		76.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	177.57		"	197.63		89.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	146.74		"	197.63		74.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	146.05		"	197.63		73.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	83.419		"	197.63		42.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	220.77		"	197.63		112	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	112.65		"	197.63		57.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	119.47		"	197.63		60.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	123.95		"	193.68		64.0	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	155.16		"	191.70		80.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	184.03		"	179.84		102	40-125			
PCB Congener # 1	19	9.9	"	9.8814		191	30-170			MRL-4, QR-2
PCB Congener # 3	16	9.9	"	9.8814		165	30-170			MRL-4
PCB Congener # 4	11	9.9	"	9.8814		115	30-170			MRL-4
PCB Congener # 15	13	9.9	"	9.8814		130	30-170			MRL-4
PCB Congener # 19	8.6	9.9	"	9.8814		87.2	30-170			MRL-4, Q-2, J
PCB Congener # 37	9.5	9.9	"	9.8814		96.2	30-170			MRL-4, Q-2, J
PCB Congener # 54	9.2	9.9	"	9.8814		93.4	30-170			MRL-4, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204099 - E 1668**

**MRL Verification (1204099-PS1)**

Prepared: 04/19/12 Analyzed: 06/05/12

PCB Congener # 77	8.9	9.9	ng/kg	9.8814		90.4	30-170			MRL-4, Q-2, J
PCB Congener # 81	9.0	9.9	"	9.8814		91.2	30-170			MRL-4, Q-2, J
PCB Congener #104	7.8	9.9	"	9.8814		78.6	30-170			MRL-4, Q-2, J
PCB Congener #105	12	9.9	"	9.8814		117	30-170			MRL-4
PCB Congener #114	8.8	9.9	"	9.8814		88.8	30-170			MRL-4, Q-2, J
PCB Congener #118	19	9.9	"	9.8814		192	30-170			MRL-4, QR-2
PCB Congener #123	9.2	9.9	"	9.8814		93.0	30-170			MRL-4, Q-2, J
PCB Congener #126	7.6	9.9	"	9.8814		77.2	30-170			MRL-4, Q-2, J
PCB Congener #155	8.9	9.9	"	9.8814		90.0	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	17	9.9	"	19.763		86.3	30-170			MRL-4
PCB Congener #167	8.4	9.9	"	9.8814		85.0	30-170			MRL-4, Q-2, J
PCB Congener #169	11	49	"	9.8814		110	30-170			MRL-4, Q-2, J
PCB Congener #188	11	49	"	9.8814		111	30-170			MRL-4, Q-2, J
PCB Congener #189	9.2	9.9	"	9.8814		92.6	30-170			MRL-4, Q-2, J
PCB Congener #202	12	49	"	9.8814		122	30-170			MRL-4, Q-2, J
PCB Congener #205	9.0	9.9	"	9.8814		91.4	30-170			MRL-4, Q-2, J
PCB Congener #206	13	9.9	"	9.8814		136	30-170			MRL-4
PCB Congener #208	9.9	9.9	"	9.8814		100	30-170			MRL-4
PCB Congener #209	22	99	"	19.802		110	30-170			MRL-4, Q-2, J



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Project: 12-0002, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1203094 - E 3550 Tissue**

**Blank (1203094-BLK1)**

Prepared: 03/15/12 Analyzed: 03/16/12

**ASB E100**

% Lipids 0.0 %

**Duplicate (1203094-DUP1)**

Source: E114504-07

Prepared: 03/15/12 Analyzed: 03/16/12

**ASB E100**

% Lipids 0.90 % 1.1 20.0 20



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-4 Matrix Precision outside method control limits
- QR-2 MRL verification recovery greater than upper control limits.



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Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

October 24, 2012

4SESD-ASB

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa  
Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
Analytical Support Branch

**TO:** Ken Rhame

**This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.**

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



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**Report Narrative** for Work Order E114506, Project: 12-0008

08/29/12 SJH PCB Congeners: Dilutions were performed on samples and QC due to matrix interferences precluding quantitation in the undiluted extracts. Hence, some of the MRLs have been elevated.

10/24/12 SJH PCB Congeners: At the request of Sandy Mort, data is being reissued with the appropriate sample qualifiers applied to QC Duplicate data. Some congeners in the duplicate sample results previously reported as hits are now non-detects due to the different treatment of QC from samples when qualifying for blank contamination. Percent lipid duplicate data is unchanged. This report replaces Element file E114506 PCBC PHYSP FINAL 08 29 12 1813.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
11-448	E114506-01	Fish	10/4/11 12:00	11/1/11 10:00
11-449	E114506-02	Fish	10/4/11 12:00	11/1/11 10:00
11-450	E114506-03	Fish	10/4/11 12:00	11/1/11 10:00
11-451	E114506-04	Fish	10/4/11 12:00	11/1/11 10:00
11-452	E114506-05	Fish	10/4/11 12:00	11/1/11 10:00
11-453	E114506-06	Fish	10/4/11 12:00	11/1/11 10:00
11-454	E114506-07	Fish	10/4/11 12:00	11/1/11 10:00
11-455	E114506-08	Fish	10/4/11 12:00	11/1/11 10:00
11-456	E114506-09	Fish	10/4/11 12:00	11/1/11 10:00
11-457	E114506-10	Fish	10/4/11 12:00	11/1/11 10:00
11-458	E114506-11	Fish	10/4/11 12:00	11/1/11 10:00
11-459	E114506-12	Fish	10/4/11 12:00	11/1/11 10:00
11-440	E114506-13	Fish	9/28/11 12:00	11/1/11 10:00
11-441	E114506-14	Fish	9/28/11 12:00	11/1/11 10:00
11-442	E114506-15	Fish	9/28/11 12:00	11/1/11 10:00
11-443	E114506-16	Fish	9/28/11 12:00	11/1/11 10:00
11-444	E114506-17	Fish	9/28/11 12:00	11/1/11 10:00
11-445	E114506-18	Fish	9/28/11 12:00	11/1/11 10:00
11-446	E114506-19	Fish	9/28/11 12:00	11/1/11 10:00
11-447	E114506-20	Fish	9/28/11 12:00	11/1/11 10:00



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### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QM-4	Matrix Precision outside method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
13029-08-8	PCB Congener # 4	2.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-90-5	PCB Congener # 37	1.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	23		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	12		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
35693-99-3	PCB Congener # 52	20	U, B-5	ng/kg	20	4/23/12 16:11	6/20/12 0:23	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	23	U, B-5	ng/kg	23	4/23/12 16:11	6/20/12 0:23	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
52663-58-8	PCB Congener # 64	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
32598-10-0	PCB Congener # 66	24		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
32598-13-3	PCB Congener # 77	1.6	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	89		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	23		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	27		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	70		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
52663-61-3	PCB Congener # 92	19		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	14		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
32598-14-4	PCB Congener #105	23		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	26	U, B-5	ng/kg	26	4/23/12 16:11	6/20/12 0:23	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A



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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
31508-00-6	PCB Congener #118	89		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
65510-44-3	PCB Congener #123	1.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	190		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
51908-16-8	PCB Congener #146	51		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	250		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.6	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	13		ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-72-6	PCB Congener #167	8.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 0:23	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	88		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-68-0	PCB Congener #187	130		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
2136-99-4	PCB Congener #202	32	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-76-0	PCB Congener #203	63		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
40186-72-9	PCB Congener #206	50		ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
52663-77-1	PCB Congener #208	22	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 15:15	EPA 1668A
2051-24-3	PCB Congener #209	36	J, Q-2	ng/kg	100	4/23/12 16:11	6/27/12 15:15	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-448

Lab ID: E114506-01

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.6		%		3/29/12 10:30	4/02/12 10:50	ASB E100





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
13029-08-8	PCB Congener # 4	2.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-90-5	PCB Congener # 37	1.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	27		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	18		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
35693-99-3	PCB Congener # 52	36		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	24	U, B-5	ng/kg	24	4/23/12 16:11	6/20/12 1:27	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
52663-58-8	PCB Congener # 64	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
32598-10-0	PCB Congener # 66	23		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
32598-13-3	PCB Congener # 77	2.2	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	77		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	18		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	27		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	57	U, B-2	ng/kg	57	4/23/12 16:11	6/20/12 1:27	EPA 1668A
52663-61-3	PCB Congener # 92	19		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	32		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
32598-14-4	PCB Congener #105	18		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	20	U, B-5	ng/kg	20	4/23/12 16:11	6/20/12 1:27	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
31508-00-6	PCB Congener #118	65		ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
65510-44-3	PCB Congener #123	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	130		ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	66		ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	170		ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	6.7	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-72-6	PCB Congener #167	4.7	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 1:27	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-68-0	PCB Congener #187	86		ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
2136-99-4	PCB Congener #202	33	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
40186-72-9	PCB Congener #206	31	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
52663-77-1	PCB Congener #208	15	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 16:19	EPA 1668A
2051-24-3	PCB Congener #209	31	J, Q-2	ng/kg	100	4/23/12 16:11	6/27/12 16:19	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-449

Lab ID: E114506-02

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
13029-08-8	PCB Congener # 4	3.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-90-5	PCB Congener # 37	2.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	48		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	28		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
35693-99-3	PCB Congener # 52	46		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	35		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
52663-58-8	PCB Congener # 64	18		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
32598-10-0	PCB Congener # 66	32		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
32598-13-3	PCB Congener # 77	2.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	74		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	20		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	33		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	70		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
52663-61-3	PCB Congener # 92	19		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	40		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
32598-14-4	PCB Congener #105	18		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	70		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	1.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
31508-00-6	PCB Congener #118	63		ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
65510-44-3	PCB Congener #123	1.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	140		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	55		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	170		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	8.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-72-6	PCB Congener #167	4.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 2:30	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	84		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	69		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-68-0	PCB Congener #187	90		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
2136-99-4	PCB Congener #202	25	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
40186-72-9	PCB Congener #206	60		ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
52663-77-1	PCB Congener #208	28	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 17:23	EPA 1668A
2051-24-3	PCB Congener #209	51	J, Q-2	ng/kg	100	4/23/12 16:11	6/27/12 17:23	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-450

Lab ID: E114506-03

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.4		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
13029-08-8	PCB Congener # 4	3.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	19		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-90-5	PCB Congener # 37	4.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	17		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
36559-22-5	PCB Congener # 42	20		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	67		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
35693-99-3	PCB Congener # 52	120		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
41464-43-1	PCB Congener # 56	11		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	92		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
52663-58-8	PCB Congener # 64	52		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
32598-10-0	PCB Congener # 66	77		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
32598-13-3	PCB Congener # 77	4.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	220		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
52663-60-2	PCB Congener # 84	22		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	51		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	92		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	27		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	200		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
52663-61-3	PCB Congener # 92	53		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
32598-14-4	PCB Congener #105	54		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
70424-68-9	PCB Congener #107	16		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	180		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
31508-00-6	PCB Congener #118	180		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
65510-44-3	PCB Congener #123	2.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
57465-28-8	PCB Congener #126	3.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	300		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	130		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
51908-16-8	PCB Congener #146	72		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	190		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	400		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.2	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	19		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-72-6	PCB Congener #167	11		ng/kg	10	4/23/12 16:11	6/20/12 3:34	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	160		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-68-0	PCB Congener #187	190		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	76		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
2136-99-4	PCB Congener #202	53		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-76-0	PCB Congener #203	91		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
40186-72-9	PCB Congener #206	110		ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
52663-77-1	PCB Congener #208	47	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 18:27	EPA 1668A
2051-24-3	PCB Congener #209	71	J, Q-2	ng/kg	100	4/23/12 16:11	6/27/12 18:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-451

Lab ID: E114506-04

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-452**

**Lab ID: E114506-05**

**Station ID: YAD-TIL-LO**

**Matrix: Fish**

**Date Collected: 10/4/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
13029-08-8	PCB Congener # 4	3.2	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	18		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-452**

**Lab ID: E114506-05**

**Station ID: YAD-TIL-LO**

**Matrix: Fish**

**Date Collected: 10/4/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-90-5	PCB Congener # 37	4.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	17		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
36559-22-5	PCB Congener # 42	22		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	55		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
35693-99-3	PCB Congener # 52	120		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
41464-43-1	PCB Congener # 56	11		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	11		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	81		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
52663-58-8	PCB Congener # 64	45		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
32598-10-0	PCB Congener # 66	65		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-452

Lab ID: E114506-05

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
32598-13-3	PCB Congener # 77	4.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	180		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
52663-60-2	PCB Congener # 84	20		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	46		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	72		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	24		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	130		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
52663-61-3	PCB Congener # 92	46		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	95		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
32598-14-4	PCB Congener #105	42		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
70424-68-9	PCB Congener #107	12		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	160		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-452

Lab ID: E114506-05

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
31508-00-6	PCB Congener #118	140		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
65510-44-3	PCB Congener #123	2.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	260		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	98		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
51908-16-8	PCB Congener #146	69		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	200		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	290		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-452

Lab ID: E114506-05

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	13		ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-72-6	PCB Congener #167	9.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/20/12 4:38	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-68-0	PCB Congener #187	170		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-452

Lab ID: E114506-05

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	59		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
2136-99-4	PCB Congener #202	52		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-76-0	PCB Congener #203	78		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
40186-72-9	PCB Congener #206	88		ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
52663-77-1	PCB Congener #208	40	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 19:30	EPA 1668A
2051-24-3	PCB Congener #209	73	J, Q-2	ng/kg	100	4/23/12 16:11	6/27/12 19:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 11-452

Lab ID: E114506-05

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.3		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	11	U, B-2	ng/kg	11	4/23/12 16:11	6/25/12 12:52	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	16		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-90-5	PCB Congener # 37	3.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
36559-22-5	PCB Congener # 42	10		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	51		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	36		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
35693-99-3	PCB Congener # 52	87		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	62		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
52663-58-8	PCB Congener # 64	25		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
32598-10-0	PCB Congener # 66	51		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
32598-13-3	PCB Congener # 77	3.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	150		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
52663-60-2	PCB Congener # 84	16		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	34		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	61		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	19		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	130		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
52663-61-3	PCB Congener # 92	32		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	66		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
32598-14-4	PCB Congener #105	34		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
70424-68-9	PCB Congener #107	11		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	150		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
31508-00-6	PCB Congener #118	120		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
65510-44-3	PCB Congener #123	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
57465-28-8	PCB Congener #126	1.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	210		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	80		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
51908-16-8	PCB Congener #146	58		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	160		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	300		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A





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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	5.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	15		ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-72-6	PCB Congener #167	8.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 12:52	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	120		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-68-0	PCB Congener #187	160		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A





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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	87		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
2136-99-4	PCB Congener #202	41	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-76-0	PCB Congener #203	84		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
40186-72-9	PCB Congener #206	80		ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
52663-77-1	PCB Congener #208	35	J, Q-2	ng/kg	50	4/23/12 16:11	6/27/12 20:34	EPA 1668A
2051-24-3	PCB Congener #209	68	J, Q-2	ng/kg	100	4/23/12 16:11	6/27/12 20:34	EPA 1668A



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## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-453

Lab ID: E114506-06

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		3/29/12 10:30	4/02/12 10:50	ASB E100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-90-5	PCB Congener # 37	4.2	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	22		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
36559-22-5	PCB Congener # 42	21		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	130		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	86		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
35693-99-3	PCB Congener # 52	160		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
41464-43-1	PCB Congener # 56	14		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	14		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
33025-41-1	PCB Congener # 60	10		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	120		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
52663-58-8	PCB Congener # 64	50		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
32598-10-0	PCB Congener # 66	120		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
32598-13-3	PCB Congener # 77	6.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
52663-62-4	PCB Congener # 82	19		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	360		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
52663-60-2	PCB Congener # 84	23		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	160		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	39		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
52663-61-3	PCB Congener # 92	83		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	120		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
32598-14-4	PCB Congener #105	85		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
70424-68-9	PCB Congener #107	29		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	300		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
31508-00-6	PCB Congener #118	280		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
65510-44-3	PCB Congener #123	6.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
57465-28-8	PCB Congener #126	4.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	82		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	580		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38380-05-1	PCB Congener #132	53		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	200		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
51908-16-8	PCB Congener #146	140		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	330		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	550		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	9.2	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	37		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-72-6	PCB Congener #167	21		ng/kg	10	4/23/12 16:11	6/25/12 13:56	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
35065-30-6	PCB Congener #170	110		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-70-4	PCB Congener #177	60		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-67-9	PCB Congener #178	69		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	300		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	220		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-68-0	PCB Congener #187	400		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	130		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
2136-99-4	PCB Congener #202	88		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-76-0	PCB Congener #203	140		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
40186-72-9	PCB Congener #206	150		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
52663-77-1	PCB Congener #208	74		ng/kg	50	4/23/12 16:11	6/27/12 21:38	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	100	4/23/12 16:11	6/27/12 21:38	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-454

Lab ID: E114506-07

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.4		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
13029-08-8	PCB Congener # 4	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-90-5	PCB Congener # 37	5.6	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	32		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
36559-22-5	PCB Congener # 42	28		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70362-47-9	PCB Congener # 48	10		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	120		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
35693-99-3	PCB Congener # 52	220		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
41464-43-1	PCB Congener # 56	20		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	15		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
33025-41-1	PCB Congener # 60	13		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	160		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
52663-58-8	PCB Congener # 64	69		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
32598-10-0	PCB Congener # 66	150		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
32598-13-3	PCB Congener # 77	8.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
52663-62-4	PCB Congener # 82	23		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	490		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
52663-60-2	PCB Congener # 84	35		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	200		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	48		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	380		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	160		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
32598-14-4	PCB Congener #105	110		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
70424-68-9	PCB Congener #107	33		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	400		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
31508-00-6	PCB Congener #118	330		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
65510-44-3	PCB Congener #123	6.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
57465-28-8	PCB Congener #126	5.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	740		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38380-05-1	PCB Congener #132	64		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	230		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52712-04-6	PCB Congener #141	68		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
51908-16-8	PCB Congener #146	190		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	440		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1000		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	11		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	44		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-72-6	PCB Congener #167	27		ng/kg	10	4/23/12 16:11	6/25/12 15:00	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
35065-30-6	PCB Congener #170	130		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
38411-25-5	PCB Congener #174	61		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-70-4	PCB Congener #177	76		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-67-9	PCB Congener #178	110		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-64-6	PCB Congener #179	61		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	370		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	340		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-68-0	PCB Congener #187	580		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
39635-31-9	PCB Congener #189	9.7	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	180		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
2136-99-4	PCB Congener #202	100		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-76-0	PCB Congener #203	180		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
74472-53-0	PCB Congener #205	8.0	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
40186-72-9	PCB Congener #206	230		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
52663-77-1	PCB Congener #208	81		ng/kg	50	4/23/12 16:11	6/28/12 11:59	EPA 1668A
2051-24-3	PCB Congener #209	160		ng/kg	100	4/23/12 16:11	6/28/12 11:59	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-455

Lab ID: E114506-08

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		3/29/12 10:30	4/02/12 10:50	ASB E100





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
13029-08-8	PCB Congener # 4	4.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-90-5	PCB Congener # 37	6.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	29		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
36559-22-5	PCB Congener # 42	27		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
35693-99-3	PCB Congener # 52	200		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
41464-43-1	PCB Congener # 56	18		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	16		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
33025-41-1	PCB Congener # 60	13		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	150		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
52663-58-8	PCB Congener # 64	69		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
32598-10-0	PCB Congener # 66	140		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
32598-13-3	PCB Congener # 77	9.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
52663-62-4	PCB Congener # 82	24		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	450		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
52663-60-2	PCB Congener # 84	35		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	200		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	48		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	420		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	160		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
32598-14-4	PCB Congener #105	110		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
70424-68-9	PCB Congener #107	36		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	380		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
31508-00-6	PCB Congener #118	350		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
65510-44-3	PCB Congener #123	5.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
57465-28-8	PCB Congener #126	5.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	120		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	830		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38380-05-1	PCB Congener #132	74		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	270		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52712-04-6	PCB Congener #141	72		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
51908-16-8	PCB Congener #146	240		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	490		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1100		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	11		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	48		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
74472-42-7	PCB Congener #158	55		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-72-6	PCB Congener #167	30		ng/kg	10	4/23/12 16:11	6/25/12 16:03	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
35065-30-6	PCB Congener #170	150		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	62		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
38411-25-5	PCB Congener #174	80		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-70-4	PCB Congener #177	81		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-67-9	PCB Congener #178	110		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-64-6	PCB Congener #179	73		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	480		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	410		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-68-0	PCB Congener #187	620		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
35694-08-7	PCB Congener #194	67		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	190		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
2136-99-4	PCB Congener #202	110		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-76-0	PCB Congener #203	220		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
74472-53-0	PCB Congener #205	8.7	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
40186-72-9	PCB Congener #206	190		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
52663-77-1	PCB Congener #208	86		ng/kg	50	4/23/12 16:11	6/28/12 13:03	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	100	4/23/12 16:11	6/28/12 13:03	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-456

Lab ID: E114506-09

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.7		%		3/29/12 10:30	4/02/12 10:50	ASB E100





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Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
13029-08-8	PCB Congener # 4	5.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
38444-78-9	PCB Congener # 16	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
37680-66-3	PCB Congener # 17	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-73-4	PCB Congener # 19	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	59	J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-85-8	PCB Congener # 22	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
55720-44-0	PCB Congener # 23	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
55702-45-9	PCB Congener # 24	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
55712-37-3	PCB Congener # 25	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-76-7	PCB Congener # 27	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
16606-02-3	PCB Congener # 31	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-77-8	PCB Congener # 32	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
37680-69-6	PCB Congener # 35	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-87-0	PCB Congener # 36	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-90-5	PCB Congener # 37	11		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
53555-66-1	PCB Congener # 38	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38444-88-1	PCB Congener # 39	50	U, J, QI-1	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	72		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
36559-22-5	PCB Congener # 42	71		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	340		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	19		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70362-47-9	PCB Congener # 48	21		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	250		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	17		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
35693-99-3	PCB Congener # 52	460		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
41464-43-1	PCB Congener # 56	43		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	39		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
33025-41-1	PCB Congener # 60	30		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	340		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
74472-34-7	PCB Congener # 63	16		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
52663-58-8	PCB Congener # 64	160		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
32598-10-0	PCB Congener # 66	310		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
32598-13-3	PCB Congener # 77	20		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
52663-62-4	PCB Congener # 82	55		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	900		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
52663-60-2	PCB Congener # 84	85		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	230		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	390		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	110		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	840		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
52663-61-3	PCB Congener # 92	200		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	360		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
32598-14-4	PCB Congener #105	210		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
70424-68-9	PCB Congener #107	65		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	13		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	830		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	14		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
31508-00-6	PCB Congener #118	660		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
68194-12-7	PCB Congener #120	13		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
65510-44-3	PCB Congener #123	13		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
57465-28-8	PCB Congener #126	12		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	170		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1300		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-66-8	PCB Congener #130	69		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38380-05-1	PCB Congener #132	140		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	480		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38411-22-2	PCB Congener #136	58		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52712-04-6	PCB Congener #141	140		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
51908-16-8	PCB Congener #146	360		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	880		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1800		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	20		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	76		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
74472-42-7	PCB Congener #158	96		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-45-0	PCB Congener #164	62		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-72-6	PCB Congener #167	47		ng/kg	10	4/23/12 16:11	6/25/12 17:07	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
35065-30-6	PCB Congener #170	250		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-74-8	PCB Congener #172	73		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
38411-25-5	PCB Congener #174	150		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-67-9	PCB Congener #178	170		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-64-6	PCB Congener #179	140		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	810		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	610		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-68-0	PCB Congener #187	910		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
39635-31-9	PCB Congener #189	12	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
41411-64-7	PCB Congener #190	58		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
35694-08-7	PCB Congener #194	97		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-78-2	PCB Congener #195	51		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
42740-50-1	PCB Congener #196	60		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	310		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
40186-71-8	PCB Congener #201	61		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
2136-99-4	PCB Congener #202	170		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-76-0	PCB Congener #203	290		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
74472-53-0	PCB Congener #205	7.9	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
40186-72-9	PCB Congener #206	300		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
52663-77-1	PCB Congener #208	140		ng/kg	50	4/23/12 16:11	6/28/12 14:07	EPA 1668A
2051-24-3	PCB Congener #209	240		ng/kg	100	4/23/12 16:11	6/28/12 14:07	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-457

Lab ID: E114506-10

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.8		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
13029-08-8	PCB Congener # 4	3.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	17		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
36559-22-5	PCB Congener # 42	14		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	91		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	74		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
35693-99-3	PCB Congener # 52	140		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	66		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
52663-58-8	PCB Congener # 64	40		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
32598-10-0	PCB Congener # 66	99		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
32598-13-3	PCB Congener # 77	2.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	400		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	90		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	98		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	26		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	350		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
52663-61-3	PCB Congener # 92	65		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
32598-14-4	PCB Congener #105	74		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
70424-68-9	PCB Congener #107	27		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	240		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
31508-00-6	PCB Congener #118	350		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
65510-44-3	PCB Congener #123	6.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	94		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	720		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	190		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
51908-16-8	PCB Congener #146	210		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	300		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1300		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	8.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	41		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
74472-42-7	PCB Congener #158	50		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-72-6	PCB Congener #167	35		ng/kg	10	4/23/12 16:11	6/25/12 18:11	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
35065-30-6	PCB Congener #170	110		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	52		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
38411-25-5	PCB Congener #174	50		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-70-4	PCB Congener #177	76		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-67-9	PCB Congener #178	98		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-64-6	PCB Congener #179	56		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	420		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	380		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-68-0	PCB Congener #187	620		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
39635-31-9	PCB Congener #189	6.2	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
35694-08-7	PCB Congener #194	80		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
42740-50-1	PCB Congener #196	65		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	270		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
40186-71-8	PCB Congener #201	52		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
2136-99-4	PCB Congener #202	130		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-76-0	PCB Congener #203	280		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
74472-53-0	PCB Congener #205	11	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
40186-72-9	PCB Congener #206	330		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
52663-77-1	PCB Congener #208	170		ng/kg	50	4/23/12 16:11	6/28/12 15:10	EPA 1668A
2051-24-3	PCB Congener #209	290		ng/kg	100	4/23/12 16:11	6/28/12 15:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-458

Lab ID: E114506-11

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
13029-08-8	PCB Congener # 4	2.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	20		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-90-5	PCB Congener # 37	1.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
36559-22-5	PCB Congener # 42	16		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	82		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
35693-99-3	PCB Congener # 52	130		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	13		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
33025-41-1	PCB Congener # 60	10		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	77		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
52663-58-8	PCB Congener # 64	45		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
32598-10-0	PCB Congener # 66	110		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
32598-13-3	PCB Congener # 77	2.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	520		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
52663-60-2	PCB Congener # 84	12		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	150		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	38		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	490		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
52663-61-3	PCB Congener # 92	81		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	120		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
32598-14-4	PCB Congener #105	100		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
70424-68-9	PCB Congener #107	39		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	350		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
31508-00-6	PCB Congener #118	500		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
68194-12-7	PCB Congener #120	10		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
65510-44-3	PCB Congener #123	10		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	970		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	220		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52712-04-6	PCB Congener #141	67		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
51908-16-8	PCB Congener #146	260		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	510		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1900		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	12		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	54		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
74472-42-7	PCB Congener #158	65		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-72-6	PCB Congener #167	48		ng/kg	10	4/23/12 16:11	6/25/12 19:14	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
35065-30-6	PCB Congener #170	150		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	62		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
38411-25-5	PCB Congener #174	79		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-70-4	PCB Congener #177	99		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-67-9	PCB Congener #178	110		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-64-6	PCB Congener #179	70		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	570		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	500		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-68-0	PCB Congener #187	730		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
39635-31-9	PCB Congener #189	7.7	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
41411-64-7	PCB Congener #190	54		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A



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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
35694-08-7	PCB Congener #194	68		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
42740-50-1	PCB Congener #196	63		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	250		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
2136-99-4	PCB Congener #202	150		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-76-0	PCB Congener #203	280		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
74472-53-0	PCB Congener #205	9.1	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
40186-72-9	PCB Congener #206	310		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
52663-77-1	PCB Congener #208	170		ng/kg	50	4/23/12 16:11	6/28/12 16:14	EPA 1668A
2051-24-3	PCB Congener #209	270		ng/kg	100	4/23/12 16:11	6/28/12 16:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-459

Lab ID: E114506-12

Station ID: YAD-TIL-LO

Matrix: Fish

Date Collected: 10/4/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
13029-08-8	PCB Congener # 4	3.2	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
37680-66-3	PCB Congener # 17	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
16606-02-3	PCB Congener # 31	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-90-5	PCB Congener # 37	5.8	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	32		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
36559-22-5	PCB Congener # 42	23		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70362-47-9	PCB Congener # 48	10		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	81		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
35693-99-3	PCB Congener # 52	150		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
41464-43-1	PCB Congener # 56	31		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	13		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
33025-41-1	PCB Congener # 60	16		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	150		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
52663-58-8	PCB Congener # 64	55		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
32598-10-0	PCB Congener # 66	130		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
32598-13-3	PCB Congener # 77	9.9	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
52663-62-4	PCB Congener # 82	29		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	380		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
52663-60-2	PCB Congener # 84	24		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	120		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	190		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	37		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	460		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
52663-61-3	PCB Congener # 92	91		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	120		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
32598-14-4	PCB Congener #105	110		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
70424-68-9	PCB Congener #107	33		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	300		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	6.1	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
31508-00-6	PCB Congener #118	330		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
65510-44-3	PCB Congener #123	8.5	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
57465-28-8	PCB Congener #126	6.8	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	140		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1300		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38380-05-1	PCB Congener #132	82		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	400		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52712-04-6	PCB Congener #141	220		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
51908-16-8	PCB Congener #146	300		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	690		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1700		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A





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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	2.9	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	77		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
74472-42-7	PCB Congener #158	100		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-45-0	PCB Congener #164	72		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-72-6	PCB Congener #167	41		ng/kg	10	4/23/12 16:09	6/25/12 20:18	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
35065-30-6	PCB Congener #170	370		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	140		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-74-8	PCB Congener #172	110		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
38411-25-5	PCB Congener #174	150		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-70-4	PCB Congener #177	150		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-67-9	PCB Congener #178	160		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-64-6	PCB Congener #179	98		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1000		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	870		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-68-0	PCB Congener #187	1200		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
39635-31-9	PCB Congener #189	17	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
41411-64-7	PCB Congener #190	82		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
35694-08-7	PCB Congener #194	100		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-78-2	PCB Congener #195	84		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
42740-50-1	PCB Congener #196	71		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	180		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
2136-99-4	PCB Congener #202	58		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-76-0	PCB Congener #203	210		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
74472-53-0	PCB Congener #205	12	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
40186-72-9	PCB Congener #206	130		ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
52663-77-1	PCB Congener #208	38	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 17:18	EPA 1668A
2051-24-3	PCB Congener #209	79	J, Q-2	ng/kg	100	4/23/12 16:09	6/28/12 17:18	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-440

Lab ID: E114506-13

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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## PCB Congeners

**Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 11-441**

**Lab ID: E114506-14**

**Station ID: YAD-TIL-MI**

**Matrix: Fish**

**Date Collected: 9/28/11 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
13029-08-8	PCB Congener # 4	2.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	10		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-441

Lab ID: E114506-14

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-90-5	PCB Congener # 37	2.7	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	41		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	26		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
35693-99-3	PCB Congener # 52	62		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	46		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
52663-58-8	PCB Congener # 64	11		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
32598-10-0	PCB Congener # 66	42		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-441

Lab ID: E114506-14

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
32598-13-3	PCB Congener # 77	4.2	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	120		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	36		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	66		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	12		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	190		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
52663-61-3	PCB Congener # 92	29		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	55		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
32598-14-4	PCB Congener #105	39		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
70424-68-9	PCB Congener #107	11		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	49		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-441

Lab ID: E114506-14

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
31508-00-6	PCB Congener #118	120		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
65510-44-3	PCB Congener #123	3.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	59		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	500		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	170		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52712-04-6	PCB Congener #141	55		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
51908-16-8	PCB Congener #146	100		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	290		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	740		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A





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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-441

Lab ID: E114506-14

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	23		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-72-6	PCB Congener #167	15		ng/kg	10	4/23/12 16:11	6/25/12 21:22	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
35065-30-6	PCB Congener #170	110		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-70-4	PCB Congener #177	87		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-67-9	PCB Congener #178	69		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	270		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	300		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-68-0	PCB Congener #187	430		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-441

Lab ID: E114506-14

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	56		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
2136-99-4	PCB Congener #202	24	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-76-0	PCB Congener #203	70		ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
40186-72-9	PCB Congener #206	29	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	4/23/12 16:11	6/28/12 18:22	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	4/23/12 16:11	6/28/12 18:22	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-441

Lab ID: E114506-14

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.3		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
13029-08-8	PCB Congener # 4	2.6	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	15		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-90-5	PCB Congener # 37	4.4	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
36559-22-5	PCB Congener # 42	12		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	67		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	47		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
35693-99-3	PCB Congener # 52	85		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
41464-43-1	PCB Congener # 56	13		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	74		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
52663-58-8	PCB Congener # 64	19		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
32598-10-0	PCB Congener # 66	72		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
32598-13-3	PCB Congener # 77	6.5	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
52663-62-4	PCB Congener # 82	13		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	220		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
52663-60-2	PCB Congener # 84	13		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	65		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	20		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	310		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
52663-61-3	PCB Congener # 92	60		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	90		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
32598-14-4	PCB Congener #105	68		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
70424-68-9	PCB Congener #107	20		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	120		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.6	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
31508-00-6	PCB Congener #118	210		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
65510-44-3	PCB Congener #123	4.5	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
57465-28-8	PCB Congener #126	4.9	J, Q-2	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	980		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
38380-05-1	PCB Congener #132	77		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	330		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52712-04-6	PCB Congener #141	110		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
51908-16-8	PCB Congener #146	130		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	520		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1400		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	40		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
74472-42-7	PCB Congener #158	71		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-72-6	PCB Congener #167	27		ng/kg	10	4/23/12 16:09	6/25/12 22:26	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
35065-30-6	PCB Congener #170	200		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	99		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-74-8	PCB Congener #172	50		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
38411-25-5	PCB Congener #174	84		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-70-4	PCB Congener #177	160		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-67-9	PCB Congener #178	130		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-64-6	PCB Congener #179	110		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	560		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	640		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-68-0	PCB Congener #187	870		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
39635-31-9	PCB Congener #189	8.5	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
41411-64-7	PCB Congener #190	68		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A





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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
35694-08-7	PCB Congener #194	55		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-78-2	PCB Congener #195	59		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	120		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
2136-99-4	PCB Congener #202	31	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-76-0	PCB Congener #203	130		ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
74472-53-0	PCB Congener #205	7.2	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
40186-72-9	PCB Congener #206	46	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
52663-77-1	PCB Congener #208	15	J, Q-2	ng/kg	50	4/23/12 16:09	6/28/12 19:25	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	4/23/12 16:09	6/28/12 19:25	EPA 1668A





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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-442

Lab ID: E114506-15

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.2		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
2051-61-8	PCB Congener # 2	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
2051-62-9	PCB Congener # 3	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
13029-08-8	PCB Congener # 4	11	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
16605-91-7	PCB Congener # 5	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
25569-80-6	PCB Congener # 6	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
33284-50-3	PCB Congener # 7	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
34883-43-7	PCB Congener # 8	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
34883-39-1	PCB Congener # 9	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
33146-45-1	PCB Congener # 10	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
2050-67-1	PCB Congener # 11	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
34883-41-5	PCB Congener # 14	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
2050-68-2	PCB Congener # 15	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-78-9	PCB Congener # 16	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
37680-66-3	PCB Congener # 17	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-73-4	PCB Congener # 19	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	53		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-85-8	PCB Congener # 22	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
55720-44-0	PCB Congener # 23	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
55702-45-9	PCB Congener # 24	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
55712-37-3	PCB Congener # 25	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-76-7	PCB Congener # 27	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
16606-02-3	PCB Congener # 31	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-77-8	PCB Congener # 32	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
37680-69-6	PCB Congener # 35	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-87-0	PCB Congener # 36	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-90-5	PCB Congener # 37	4.4	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
53555-66-1	PCB Congener # 38	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38444-88-1	PCB Congener # 39	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
36559-22-5	PCB Congener # 42	42		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70362-46-8	PCB Congener # 43	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	220		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
41464-47-5	PCB Congener # 46	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70362-47-9	PCB Congener # 48	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	200		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
35693-99-3	PCB Congener # 52	360		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
15968-05-5	PCB Congener # 54	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74338-24-2	PCB Congener # 55	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
41464-43-1	PCB Congener # 56	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70424-67-8	PCB Congener # 57	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
41464-49-7	PCB Congener # 58	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
33025-41-1	PCB Congener # 60	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	140		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-34-7	PCB Congener # 63	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-58-8	PCB Congener # 64	99		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
32598-10-0	PCB Congener # 66	210		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
73575-53-8	PCB Congener # 67	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
73575-52-7	PCB Congener # 68	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74338-23-1	PCB Congener # 73	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
32598-13-3	PCB Congener # 77	7.5	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70362-49-1	PCB Congener # 78	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
41464-48-6	PCB Congener # 79	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
33284-52-5	PCB Congener # 80	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70362-50-4	PCB Congener # 81	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-62-4	PCB Congener # 82	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	730		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-60-2	PCB Congener # 84	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	180		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	230		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	61		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
73575-57-2	PCB Congener # 89	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	900		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-61-3	PCB Congener # 92	150		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	300		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
73575-55-0	PCB Congener # 94	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
73575-54-9	PCB Congener # 96	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
60145-21-3	PCB Congener #103	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
56558-16-8	PCB Congener #104	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
32598-14-4	PCB Congener #105	160		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70424-69-0	PCB Congener #106	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
70424-68-9	PCB Congener #107	48		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	550		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
39635-32-0	PCB Congener #111	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-36-9	PCB Congener #112	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	8.8	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
31508-00-6	PCB Congener #118	590		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
68194-12-7	PCB Congener #120	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
56558-18-0	PCB Congener #121	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
76842-07-4	PCB Congener #122	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
65510-44-3	PCB Congener #123	14	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
57465-28-8	PCB Congener #126	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
39635-33-1	PCB Congener #127	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	230		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2100		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-66-8	PCB Congener #130	100		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
61798-70-7	PCB Congener #131	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38380-05-1	PCB Congener #132	73		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
35694-04-3	PCB Congener #133	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1000		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38411-22-2	PCB Congener #136	48		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
35694-06-5	PCB Congener #137	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52712-04-6	PCB Congener #141	220		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
41411-61-4	PCB Congener #142	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
68194-14-9	PCB Congener #144	100		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-40-5	PCB Congener #145	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
51908-16-8	PCB Congener #146	460		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1800		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-41-6	PCB Congener #148	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
68194-08-1	PCB Congener #150	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
68194-09-2	PCB Congener #152	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4000		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	11	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	89		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-42-7	PCB Congener #158	150		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
39635-35-3	PCB Congener #159	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-43-8	PCB Congener #161	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
39635-34-2	PCB Congener #162	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-45-0	PCB Congener #164	98		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-46-1	PCB Congener #165	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-72-6	PCB Congener #167	73		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
32774-16-6	PCB Congener #169	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
35065-30-6	PCB Congener #170	280		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	190		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-74-8	PCB Congener #172	73		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
38411-25-5	PCB Congener #174	240		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
40186-70-7	PCB Congener #175	49		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-65-7	PCB Congener #176	53		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-70-4	PCB Congener #177	400		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-67-9	PCB Congener #178	310		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-64-6	PCB Congener #179	330		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1300		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-47-2	PCB Congener #181	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
60145-23-5	PCB Congener #182	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1500		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-48-3	PCB Congener #184	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-49-4	PCB Congener #186	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-68-0	PCB Congener #187	1700		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74487-85-7	PCB Congener #188	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
39635-31-9	PCB Congener #189	12	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
41411-64-7	PCB Congener #190	98		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-51-8	PCB Congener #192	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
35694-08-7	PCB Congener #194	86		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-78-2	PCB Congener #195	90		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
42740-50-1	PCB Congener #196	96		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	43		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
40186-71-8	PCB Congener #201	77		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
2136-99-4	PCB Congener #202	180		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-76-0	PCB Congener #203	450		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-52-9	PCB Congener #204	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
74472-53-0	PCB Congener #205	17	J, Q-2	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
40186-72-9	PCB Congener #206	280		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-79-3	PCB Congener #207	39	U	ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
52663-77-1	PCB Congener #208	140		ng/kg	39	4/23/12 16:11	6/25/12 23:29	EPA 1668A
2051-24-3	PCB Congener #209	230		ng/kg	77	4/23/12 16:11	6/25/12 23:29	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-443

Lab ID: E114506-16

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.9		%		4/09/12 10:40	4/10/12 9:31	ASB E100





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Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
13029-08-8	PCB Congener # 4	3.6	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	22		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-90-5	PCB Congener # 37	1.9	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
36559-22-5	PCB Congener # 42	19		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	75		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
35693-99-3	PCB Congener # 52	120		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	13		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
33025-41-1	PCB Congener # 60	21		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	120		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
52663-58-8	PCB Congener # 64	61		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
32598-10-0	PCB Congener # 66	180		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
32598-13-3	PCB Congener # 77	5.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	560		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	150		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	180		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	33		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	610		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
52663-61-3	PCB Congener # 92	110		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	140		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
32598-14-4	PCB Congener #105	180		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
70424-68-9	PCB Congener #107	69		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	310		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	11		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
31508-00-6	PCB Congener #118	730		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
65510-44-3	PCB Congener #123	15		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	330		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3200		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-66-8	PCB Congener #130	140		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
38380-05-1	PCB Congener #132	91		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
35694-04-3	PCB Congener #133	60		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	820		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52712-04-6	PCB Congener #141	550		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
68194-14-9	PCB Congener #144	110		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
51908-16-8	PCB Congener #146	840		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1400		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	5300		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	6.5	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	170		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
74472-42-7	PCB Congener #158	250		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-45-0	PCB Congener #164	210		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-72-6	PCB Congener #167	120		ng/kg	10	4/23/12 16:11	6/26/12 16:05	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
35065-30-6	PCB Congener #170	1100		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	370		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-74-8	PCB Congener #172	260		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
38411-25-5	PCB Congener #174	580		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
40186-70-7	PCB Congener #175	84		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-70-4	PCB Congener #177	520		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-67-9	PCB Congener #178	350		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-64-6	PCB Congener #179	330		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	3400		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	2600		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-68-0	PCB Congener #187	3600		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
39635-31-9	PCB Congener #189	39	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
41411-64-7	PCB Congener #190	300		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	53		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
35694-08-7	PCB Congener #194	360		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-78-2	PCB Congener #195	230		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
42740-50-1	PCB Congener #196	260		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	58		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	630		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
2136-99-4	PCB Congener #202	140		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-76-0	PCB Congener #203	670		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
74472-53-0	PCB Congener #205	42	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
40186-72-9	PCB Congener #206	240		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
52663-77-1	PCB Congener #208	100		ng/kg	50	4/23/12 16:11	6/28/12 21:33	EPA 1668A
2051-24-3	PCB Congener #209	120		ng/kg	100	4/23/12 16:11	6/28/12 21:33	EPA 1668A



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## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-444

Lab ID: E114506-17

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.1		%		3/29/12 10:30	4/02/12 10:50	ASB E100





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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
13029-08-8	PCB Congener # 4	2.7	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	19		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A





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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-90-5	PCB Congener # 37	1.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	13		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	56		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	28		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
35693-99-3	PCB Congener # 52	25	U, B-5	ng/kg	25	4/23/12 16:11	6/26/12 17:09	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	46		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
52663-58-8	PCB Congener # 64	25		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
32598-10-0	PCB Congener # 66	60		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
32598-13-3	PCB Congener # 77	1.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
52663-62-4	PCB Congener # 82	10		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
52663-60-2	PCB Congener # 84	11		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	38		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	71		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	70		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
52663-61-3	PCB Congener # 92	33		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	34		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
32598-14-4	PCB Congener #105	43		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
70424-68-9	PCB Congener #107	19		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	3.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
31508-00-6	PCB Congener #118	150		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
65510-44-3	PCB Congener #123	3.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	64		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	560		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52712-04-6	PCB Congener #141	75		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
51908-16-8	PCB Congener #146	140		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	200		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	400		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	27		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-72-6	PCB Congener #167	16		ng/kg	10	4/23/12 16:11	6/26/12 17:09	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
35065-30-6	PCB Congener #170	120		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
38411-25-5	PCB Congener #174	65		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-70-4	PCB Congener #177	100		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-67-9	PCB Congener #178	63		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	330		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	230		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-68-0	PCB Congener #187	470		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	99		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
2136-99-4	PCB Congener #202	38	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-76-0	PCB Congener #203	93		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
40186-72-9	PCB Congener #206	71		ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
52663-77-1	PCB Congener #208	25	J, Q-2	ng/kg	50	4/23/12 16:11	6/28/12 22:36	EPA 1668A
2051-24-3	PCB Congener #209	47	J, Q-2	ng/kg	100	4/23/12 16:11	6/28/12 22:36	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-445

Lab ID: E114506-18

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.0		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
13029-08-8	PCB Congener # 4	3.4	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	33		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
36559-22-5	PCB Congener # 42	37		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	150		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	99		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
35693-99-3	PCB Congener # 52	81		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	17		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
33025-41-1	PCB Congener # 60	20		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	120		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
74472-34-7	PCB Congener # 63	12		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
52663-58-8	PCB Congener # 64	65		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
32598-10-0	PCB Congener # 66	210		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A





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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
32598-13-3	PCB Congener # 77	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	580		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	160		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	45		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	290		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
52663-61-3	PCB Congener # 92	120		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	47		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
32598-14-4	PCB Congener #105	170		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
70424-68-9	PCB Congener #107	59		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	270		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	11		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
31508-00-6	PCB Congener #118	740		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
68194-12-7	PCB Congener #120	10		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
65510-44-3	PCB Congener #123	15		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	170		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1600		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-66-8	PCB Congener #130	52		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	330		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52712-04-6	PCB Congener #141	83		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
51908-16-8	PCB Congener #146	350		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	440		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2700		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A



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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	16		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	82		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
74472-42-7	PCB Congener #158	92		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-45-0	PCB Congener #164	59		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-72-6	PCB Congener #167	77		ng/kg	10	4/23/12 16:11	6/26/12 18:13	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	93		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
38411-25-5	PCB Congener #174	130		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-70-4	PCB Congener #177	85		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-67-9	PCB Congener #178	130		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	690		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	550		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-68-0	PCB Congener #187	790		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
39635-31-9	PCB Congener #189	14	J, Q-2	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
41411-64-7	PCB Congener #190	70		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A



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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
35694-08-7	PCB Congener #194	87		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-78-2	PCB Congener #195	69		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	170		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
40186-71-8	PCB Congener #201	50		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
2136-99-4	PCB Congener #202	170		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-76-0	PCB Congener #203	310		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
74472-53-0	PCB Congener #205	14	J, Q-2	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
40186-72-9	PCB Congener #206	230		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
52663-77-1	PCB Congener #208	110		ng/kg	50	4/23/12 16:11	6/29/12 13:11	EPA 1668A
2051-24-3	PCB Congener #209	170		ng/kg	100	4/23/12 16:11	6/29/12 13:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-446

Lab ID: E114506-19

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
13029-08-8	PCB Congener # 4	3.0	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	26		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
36559-22-5	PCB Congener # 42	26		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	61		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
35693-99-3	PCB Congener # 52	74		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	12		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
33025-41-1	PCB Congener # 60	15		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	70		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
52663-58-8	PCB Congener # 64	43		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
32598-10-0	PCB Congener # 66	140		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
32598-13-3	PCB Congener # 77	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	260		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	69		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	120		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	23		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	210		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
52663-61-3	PCB Congener # 92	61		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	52		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
32598-14-4	PCB Congener #105	88		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
70424-68-9	PCB Congener #107	34		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	210		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A





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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	5.3	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
31508-00-6	PCB Congener #118	380		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
65510-44-3	PCB Congener #123	6.8	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	83		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	900		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
38380-05-1	PCB Congener #132	58		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	190		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52712-04-6	PCB Congener #141	59		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
51908-16-8	PCB Congener #146	180		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	410		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1400		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	7.1	J, Q-2	ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	44		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
74472-42-7	PCB Congener #158	54		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-72-6	PCB Congener #167	40		ng/kg	10	4/23/12 16:11	6/26/12 19:16	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
35065-30-6	PCB Congener #170	82	J, QM-4	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
38411-25-5	PCB Congener #174	76		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-70-4	PCB Congener #177	82		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-67-9	PCB Congener #178	70		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	340	J, QM-4	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	260	J, QM-4	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-68-0	PCB Congener #187	360	J, QM-4	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
39635-31-9	PCB Congener #189	6.5	J, Q-2	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	78	J, QM-4	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
2136-99-4	PCB Congener #202	80		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-76-0	PCB Congener #203	140	J, QM-4	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
40186-72-9	PCB Congener #206	100		ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
52663-77-1	PCB Congener #208	44	J, Q-2	ng/kg	50	4/23/12 16:11	6/29/12 14:15	EPA 1668A
2051-24-3	PCB Congener #209	72	J, Q-2	ng/kg	100	4/23/12 16:11	6/29/12 14:15	EPA 1668A



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### Physical Properties

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 11-447

Lab ID: E114506-20

Station ID: YAD-TIL-MI

Matrix: Fish

Date Collected: 9/28/11 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.7		%		3/29/12 10:30	4/02/12 10:50	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Blank (1204111-BLK1)**

Prepared: 04/23/12 Analyzed: 06/19/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	42.282		ng/kg	200.20		21.1	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	42.863		"	200.20		21.4	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	52.533		"	200.20		26.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	52.773		"	200.20		26.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	56.737		"	200.20		28.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	57.538		"	200.20		28.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	70.611		"	200.20		35.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	60.040		"	200.20		30.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	50.591		"	200.20		25.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	61.241		"	200.20		30.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	59.199		"	200.20		29.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	55.255		"	200.20		27.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	56.857		"	200.20		28.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	54.434		"	200.20		27.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	50.811		"	200.20		25.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	67.467		"	200.20		33.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	112.21		"	400.40		28.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	53.914		"	200.20		26.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	54.254		"	200.20		27.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	113.41		"	200.20		56.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	62.062		"	200.20		31.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	103.70		"	200.20		51.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	92.593		"	200.20		46.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	79.379		"	200.20		39.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	97.598		"	200.20		48.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	77.377		"	200.20		38.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	77.437		"	196.20		39.5	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	75.235		"	194.19		38.7	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	95.475		"	182.18		52.4	30-135			
PCB Congener # 1	11	10	"							B-4
PCB Congener # 2	U	10	"							U
PCB Congener # 3	7.1	10	"							B-3, Q-2, J
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Blank (1204111-BLK1)**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	2.9	10	"							B-3, Q-2, J
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	U	10	"							U
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	U	10	"							U
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	U	10	"							U
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	U	10	"							U
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Blank (1204111-BLK1)**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener # 58	U	10	ng/kg							U
PCB Congener # 59 and/or 62,75	U	10	"							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	U	10	"							U
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	12	10	"							B-4
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	U	10	"							U
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	U	10	"							U
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	9.3	10	"							B-3, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Blank (1204111-BLK1)**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	50	"							U
PCB Congener #129 and/or 138,160,163	U	50	"							U
PCB Congener #130	U	50	"							U
PCB Congener #131	U	50	"							U
PCB Congener #132	U	50	"							U
PCB Congener #133	U	50	"							U
PCB Congener #134 and/or 143	U	50	"							U
PCB Congener #135 and/or 151,154	U	50	"							U
PCB Congener #136	U	50	"							U
PCB Congener #137	U	50	"							U
PCB Congener #139 and/or 140	U	50	"							U
PCB Congener #141	U	50	"							U
PCB Congener #142	U	50	"							U
PCB Congener #144	U	50	"							U
PCB Congener #145	U	50	"							U
PCB Congener #146	U	50	"							U
PCB Congener #147 and/or 149	U	50	"							U
PCB Congener #148	U	50	"							U
PCB Congener #150	U	50	"							U
PCB Congener #152	U	50	"							U
PCB Congener #153 and/or 168	U	50	"							U
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	1.2	10	"							B-3, Q-2, J
PCB Congener #158	U	50	"							U
PCB Congener #159	U	50	"							U
PCB Congener #161	U	50	"							U
PCB Congener #162	U	50	"							U
PCB Congener #164	U	50	"							U
PCB Congener #165	U	50	"							U
PCB Congener #167	U	10	"							U
PCB Congener #169	U	50	"							U
PCB Congener #170	U	50	"							U
PCB Congener #171 and/or 173	U	50	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Blank (1204111-BLK1)**

Prepared: 04/23/12 Analyzed: 06/27/12

PCB Congener #172	U	50	ng/kg							U
PCB Congener #174	U	50	"							U
PCB Congener #175	U	50	"							U
PCB Congener #176	U	50	"							U
PCB Congener #177	U	50	"							U
PCB Congener #178	U	50	"							U
PCB Congener #179	U	50	"							U
PCB Congener #180 and/or 193	U	50	"							U
PCB Congener #181	U	50	"							U
PCB Congener #182	U	50	"							U
PCB Congener #183 and/or 185	U	50	"							U
PCB Congener #184	U	50	"							U
PCB Congener #186	U	50	"							U
PCB Congener #187	U	50	"							U
PCB Congener #188	U	50	"							U
PCB Congener #189	U	50	"							U
PCB Congener #190	U	50	"							U
PCB Congener #191	U	50	"							U
PCB Congener #192	U	50	"							U
PCB Congener #194	U	50	"							U
PCB Congener #195	U	50	"							U
PCB Congener #196	U	50	"							U
PCB Congener #197 and/or 200	U	50	"							U
PCB Congener #198 and/or 199	U	50	"							U
PCB Congener #201	U	50	"							U
PCB Congener #202	U	50	"							U
PCB Congener #203	U	50	"							U
PCB Congener #204	U	50	"							U
PCB Congener #205	U	50	"							U
PCB Congener #206	U	50	"							U
PCB Congener #207	U	50	"							U
PCB Congener #208	U	50	"							U
PCB Congener #209	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**LCS (1204111-BS1)**

Prepared: 04/23/12 Analyzed: 06/19/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	83.241		ng/kg	198.81		41.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	91.531		"	198.81		46.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	109.72		"	198.81		55.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	109.32		"	198.81		55.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	136.62		"	198.81		68.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	86.978		"	198.81		43.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	121.71		"	198.81		61.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	92.326		"	198.81		46.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	77.654		"	198.81		39.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	136.10		"	198.81		68.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	108.33		"	198.81		54.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	107.24		"	198.81		53.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	102.70		"	198.81		51.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	101.99		"	198.81		51.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	97.893		"	198.81		49.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	122.76		"	198.81		61.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	152.39		"	397.61		38.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	94.374		"	198.81		47.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	97.614		"	198.81		49.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	183.60		"	198.81		92.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	161.59		"	198.81		81.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	179.22		"	198.81		90.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	97.157		"	198.81		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	126.64		"	198.81		63.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	133.90		"	198.81		67.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	108.95		"	198.81		54.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	108.29		"	194.83		55.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	149.74		"	192.84		77.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	167.97		"	180.91		92.8	40-125			
PCB Congener # 1	93	9.9	"	99.404		93.3	50-150			
PCB Congener # 3	90	9.9	"	99.404		90.0	50-150			
PCB Congener # 4	91	9.9	"	99.404		91.9	50-150			
PCB Congener # 15	84	9.9	"	99.404		84.5	50-150			
PCB Congener # 19	78	9.9	"	99.404		78.9	50-150			
PCB Congener # 37	74	9.9	"	99.404		74.1	50-150			
PCB Congener # 54	70	9.9	"	99.404		70.4	50-150			
PCB Congener # 77	66	9.9	"	99.404		65.9	50-150			
PCB Congener # 81	66	9.9	"	99.404		66.0	50-150			



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D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**LCS (1204111-BS1)**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener #104	66	9.9	ng/kg	99.404		66.3	50-150			
PCB Congener #105	62	9.9	"	99.404		62.2	50-150			
PCB Congener #114	60	9.9	"	99.404		60.5	50-150			
PCB Congener #118	73	9.9	"	99.404		73.3	50-150			
PCB Congener #123	61	9.9	"	99.404		61.7	50-150			
PCB Congener #126	53	9.9	"	99.404		53.6	50-150			
PCB Congener #155	62	9.9	"	99.404		62.0	50-150			
PCB Congener #156 and/or 157	120	9.9	"	198.81		59.7	50-150			
PCB Congener #167	59	9.9	"	99.404		59.6	50-150			
PCB Congener #169	60	50	"	99.404		60.5	50-150			
PCB Congener #188	54	50	"	99.404		54.0	50-150			
PCB Congener #189	63	9.9	"	99.404		63.5	50-150			
PCB Congener #202	58	50	"	99.404		58.4	50-150			
PCB Congener #205	65	9.9	"	99.404		65.4	50-150			
PCB Congener #206	61	50	"	99.404		60.9	50-150			
PCB Congener #208	53	9.9	"	99.404		53.6	50-150			
PCB Congener #209	63	99	"	99.404		63.3	50-150			Q-2, J

**LCS Dup (1204111-BSD1)**

Prepared: 04/23/12 Analyzed: 06/19/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	77.180		ng/kg	200.00		38.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	81.380		"	200.00		40.7	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	103.96		"	200.00		52.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	100.50		"	200.00		50.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	110.44		"	200.00		55.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	91.520		"	200.00		45.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	127.76		"	200.00		63.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	85.340		"	200.00		42.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	73.400		"	200.00		36.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	139.34		"	200.00		69.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	103.72		"	200.00		51.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	97.900		"	200.00		49.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	105.92		"	200.00		53.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	97.100		"	200.00		48.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	95.200		"	200.00		47.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	142.30		"	200.00		71.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	164.14		"	400.00		41.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	97.900		"	200.00		49.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	68.580		"	200.00		34.3	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**LCS Dup (1204111-BSD1)**

Prepared: 04/23/12 Analyzed: 06/19/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	178.42		ng/kg	200.00		89.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	94.360		"	200.00		47.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	186.44		"	200.00		93.2	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	98.180		"	200.00		49.1	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	146.54		"	200.00		73.3	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	115.74		"	200.00		57.9	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	138.10		"	200.00		69.0	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	108.12		"	196.00		55.2	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	170.32		"	194.00		87.8	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	222.72		"	182.00		122	40-125			
PCB Congener # 1	95	10	"	100.00		94.8	50-150	2.19	30	
PCB Congener # 3	95	10	"	100.00		95.2	50-150	6.19	30	
PCB Congener # 4	94	10	"	100.00		93.7	50-150	2.60	30	
PCB Congener # 15	91	10	"	100.00		91.2	50-150	8.20	30	
PCB Congener # 19	91	10	"	100.00		91.0	50-150	14.8	30	
PCB Congener # 37	73	10	"	100.00		73.3	50-150	0.596	30	
PCB Congener # 54	85	10	"	100.00		84.9	50-150	19.3	30	
PCB Congener # 77	65	10	"	100.00		65.3	50-150	0.316	30	
PCB Congener # 81	77	10	"	100.00		76.7	50-150	15.5	30	
PCB Congener #104	71	10	"	100.00		71.3	50-150	7.75	30	
PCB Congener #105	72	10	"	100.00		71.7	50-150	14.7	30	
PCB Congener #114	67	10	"	100.00		66.5	50-150	10.2	30	
PCB Congener #118	81	10	"	100.00		81.3	50-150	10.9	30	
PCB Congener #123	69	10	"	100.00		69.3	50-150	12.2	30	
PCB Congener #126	61	10	"	100.00		61.4	50-150	14.2	30	
PCB Congener #155	66	10	"	100.00		65.9	50-150	6.70	30	
PCB Congener #156 and/or 157	130	10	"	200.00		66.2	50-150	11.0	30	
PCB Congener #167	64	10	"	100.00		63.5	50-150	7.00	30	
PCB Congener #169	69	10	"	100.00		69.2	50-150	14.0	30	
PCB Congener #188	66	10	"	100.00		66.2	50-150	21.0	30	
PCB Congener #189	60	10	"	100.00		60.3	50-150	4.48	30	
PCB Congener #202	57	10	"	100.00		56.8	50-150	2.14	30	
PCB Congener #205	64	10	"	100.00		63.6	50-150	2.10	30	
PCB Congener #206	65	10	"	100.00		64.7	50-150	6.68	30	
PCB Congener #208	57	10	"	100.00		57.1	50-150	6.85	30	
PCB Congener #209	66	20	"	100.00		66.3	50-150	5.17	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Duplicate (1204111-DUP1)**

**Source: E114506-20**

Prepared: 04/23/12 Analyzed: 06/19/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	76.863		ng/kg	199.80		38.5	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	83.576		"	199.80		41.8	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	136.70		"	199.80		68.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	111.69		"	199.80		55.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	130.15		"	199.80		65.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	91.109		"	199.80		45.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	135.76		"	199.80		67.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	93.447		"	199.80		46.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	74.785		"	199.80		37.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	178.12		"	199.80		89.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	111.33		"	199.80		55.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	119.02		"	199.80		59.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	108.77		"	199.80		54.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	113.53		"	199.80		56.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	104.18		"	199.80		52.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	143.76		"	199.80		71.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	210.29		"	399.60		52.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	96.663		"	199.80		48.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	99.800		"	199.80		50.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	246.85		"	199.80		124	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	127.17		"	199.80		63.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	215.88		"	199.80		108	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	126.47		"	199.80		63.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	174.33		"	199.80		87.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	168.13		"	199.80		84.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	128.87		"	199.80		64.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	111.47		"	195.80		56.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	167.27		"	193.81		86.3	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	179.70		"	181.82		98.8	30-135			
PCB Congener # 1	U	10	"		U				30	U
PCB Congener # 2	U	10	"		U				30	U
PCB Congener # 3	U	10	"		U				30	U
PCB Congener # 4	2.9	10	"		3.0			3.51	30	J, Q-2
PCB Congener # 5	U	10	"		U				30	U
PCB Congener # 6	U	10	"		U				30	U
PCB Congener # 7	U	10	"		U				30	U
PCB Congener # 8	U	10	"		U				30	U
PCB Congener # 9	U	10	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Duplicate (1204111-DUP1)**

**Source: E114506-20**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener # 10	U	10	ng/kg		U				30	U
PCB Congener # 11	U	10	"		U				30	U
PCB Congener # 12 and/or 13	U	10	"		U				30	U
PCB Congener # 14	U	10	"		U				30	U
PCB Congener # 15	U	10	"		U				30	U
PCB Congener # 16	U	10	"		U				30	U
PCB Congener # 17	U	10	"		U				30	U
PCB Congener # 18 and/or 30	U	10	"		U				30	U
PCB Congener # 19	U	10	"		U				30	U
PCB Congener # 20 and/or 28	20	10	"		26			26.5	30	
PCB Congener # 21 and/or 33	U	10	"		U				30	U
PCB Congener # 22	U	10	"		U				30	U
PCB Congener # 23	U	10	"		U				30	U
PCB Congener # 24	U	10	"		U				30	U
PCB Congener # 25	U	10	"		U				30	U
PCB Congener # 26 and/or 29	U	10	"		U				30	U
PCB Congener # 27	U	10	"		U				30	U
PCB Congener # 31	U	10	"		U				30	U
PCB Congener # 32	U	10	"		U				30	U
PCB Congener # 34	U	10	"		U				30	U
PCB Congener # 35	U	10	"		U				30	U
PCB Congener # 36	U	10	"		U				30	U
PCB Congener # 37	U	10	"		U				30	U
PCB Congener # 38	U	10	"		U				30	U
PCB Congener # 39	U	10	"		U				30	U
PCB Congener # 40 and/or 41,71	U	10	"		U				30	U
PCB Congener # 42	32	10	"		26			20.5	30	
PCB Congener # 43	U	10	"		U				30	U
PCB Congener # 44 and/or 47,65	140	10	"		110			17.6	30	
PCB Congener # 45 and/or 51	U	10	"		U				30	U
PCB Congener # 46	U	10	"		U				30	U
PCB Congener # 48	U	10	"		U				30	U
PCB Congener # 49 and/or 69	75	10	"		61			21.2	30	
PCB Congener # 50 and/or 53	U	10	"		U				30	U
PCB Congener # 52	78	10	"		74			5.40	30	
PCB Congener # 54	U	10	"		U				30	U
PCB Congener # 55	U	10	"		U				30	U
PCB Congener # 56	U	10	"		U				30	U
PCB Congener # 57	U	10	"		U				30	U
PCB Congener # 58	U	10	"		U				30	U



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**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Duplicate (1204111-DUP1)**

**Source: E114506-20**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener # 59 and/or 62,75	12	10	ng/kg		12			3.31	30	
PCB Congener # 60	14	10	"		15			2.33	30	
PCB Congener # 61 and/or 70,74,76	81	10	"		70			13.5	30	
PCB Congener # 63	U	10	"		U				30	U
PCB Congener # 64	55	10	"		43			23.9	30	
PCB Congener # 66	130	10	"		140			6.97	30	
PCB Congener # 67	U	10	"		U				30	U
PCB Congener # 68	U	10	"		U				30	U
PCB Congener # 72	U	10	"		U				30	U
PCB Congener # 73	U	10	"		U				30	U
PCB Congener # 77	1.6	10	"		U				30	J, Q-2
PCB Congener # 78	U	10	"		U				30	U
PCB Congener # 79	U	10	"		U				30	U
PCB Congener # 80	U	10	"		U				30	U
PCB Congener # 81	U	10	"		U				30	U
PCB Congener # 82	U	10	"		U				30	U
PCB Congener # 83 and/or 99	340	10	"		260			26.8	30	
PCB Congener # 84	U	10	"		U				30	U
PCB Congener # 85 and/or 116,117	91	10	"		69			27.6	30	
PCB Congener # 86 and/or 87,97,109,119,125	110	10	"		120			6.48	30	
PCB Congener # 88 and/or 91	29	10	"		23			23.0	30	
PCB Congener # 89	U	10	"		U				30	U
PCB Congener # 90 and/or 101,113	230	10	"		210			7.64	30	
PCB Congener # 92	62	10	"		61			0.518	30	
PCB Congener # 93 and/or 95,98,100,102	61	10	"		52			16.0	30	
PCB Congener # 94	U	10	"		U				30	U
PCB Congener # 96	U	10	"		U				30	U
PCB Congener #103	U	10	"		U				30	U
PCB Congener #104	U	10	"		U				30	U
PCB Congener #105	90	10	"		88			2.26	30	
PCB Congener #106	U	10	"		U				30	U
PCB Congener #107	29	10	"		34			16.0	30	
PCB Congener #108 and/or 124	U	10	"		U				30	U
PCB Congener #110 and/or 115	240	10	"		210			14.8	30	
PCB Congener #111	U	10	"		U				30	U
PCB Congener #112	U	10	"		U				30	U
PCB Congener #114	5.8	10	"		5.3			7.81	30	J, Q-2
PCB Congener #118	400	10	"		380			6.15	30	
PCB Congener #120	U	10	"		U				30	U



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

Duplicate (1204111-DUP1)	Source: E114506-20			Prepared: 04/23/12 Analyzed: 06/19/12			
PCB Congener #121	U	10	ng/kg	U	30	U	
PCB Congener #122	U	10	"	U	30	U	
PCB Congener #123	6.3	10	"	6.8	8.32	30	J, Q-2
PCB Congener #126	U	10	"	U	30	U	
PCB Congener #127	U	10	"	U	30	U	
PCB Congener #128 and/or 166	76	50	"	83	8.73	30	
PCB Congener #129 and/or 138,160,163	770	50	"	900	15.0	30	
PCB Congener #130	U	50	"	U	30	U	
PCB Congener #131	U	50	"	U	30	U	
PCB Congener #132	54	50	"	58	6.53	30	
PCB Congener #133	U	50	"	U	30	U	
PCB Congener #134 and/or 143	U	50	"	U	30	U	
PCB Congener #135 and/or 151,154	190	50	"	190	0.967	30	
PCB Congener #136	U	50	"	U	30	U	
PCB Congener #137	U	50	"	U	30	U	
PCB Congener #139 and/or 140	U	50	"	U	30	U	
PCB Congener #141	54	50	"	59	7.52	30	
PCB Congener #142	U	50	"	U	30	U	
PCB Congener #144	U	50	"	U	30	U	
PCB Congener #145	U	50	"	U	30	U	
PCB Congener #146	170	50	"	180	3.86	30	
PCB Congener #147 and/or 149	410	50	"	410	0.415	30	
PCB Congener #148	U	50	"	U	30	U	
PCB Congener #150	U	50	"	U	30	U	
PCB Congener #152	U	50	"	U	30	U	
PCB Congener #153 and/or 168	1400	50	"	1400	1.10	30	
PCB Congener #155	7.4	10	"	7.1	5.14	30	J, Q-2
PCB Congener #156 and/or 157	45	10	"	44	2.87	30	
PCB Congener #158	54	50	"	54	1.75	30	
PCB Congener #159	U	50	"	U	30	U	
PCB Congener #161	U	50	"	U	30	U	
PCB Congener #162	U	50	"	U	30	U	
PCB Congener #164	U	50	"	U	30	U	
PCB Congener #165	U	50	"	U	30	U	
PCB Congener #167	39	10	"	40	2.07	30	
PCB Congener #169	U	50	"	U	30	U	
PCB Congener #170	110	50	"	82	32.2	30	J, QM-4
PCB Congener #171 and/or 173	64	50	"	U	30		
PCB Congener #172	U	50	"	U	30	U	
PCB Congener #174	65	50	"	76	15.7	30	





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**Duplicate (1204111-DUP1)**

**Source: E114506-20**

Prepared: 04/23/12 Analyzed: 06/27/12

PCB Congener #175	U	50	ng/kg		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	110	50	"		82			28.8	30	
PCB Congener #178	84	50	"		70			17.5	30	
PCB Congener #179	U	50	"		U				30	U
PCB Congener #180 and/or 193	520	50	"		340			41.2	30	J, QM-4
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	370	50	"		260			35.6	30	J, QM-4
PCB Congener #184	U	50	"		U				30	U
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	510	50	"		360			34.3	30	J, QM-4
PCB Congener #188	U	50	"		U				30	U
PCB Congener #189	U	50	"		6.5				30	U
PCB Congener #190	U	50	"		U				30	U
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	U	50	"		U				30	U
PCB Congener #195	U	50	"		U				30	U
PCB Congener #196	U	50	"		U				30	U
PCB Congener #197 and/or 200	U	50	"		U				30	U
PCB Congener #198 and/or 199	110	50	"		78			37.3	30	J, QM-4
PCB Congener #201	U	50	"		U				30	U
PCB Congener #202	84	50	"		80			5.00	30	
PCB Congener #203	200	50	"		140			36.0	30	J, QM-4
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	U	50	"		U				30	U
PCB Congener #206	100	50	"		100			0.301	30	
PCB Congener #207	U	50	"		U				30	U
PCB Congener #208	49	50	"		44			11.0	30	J, Q-2
PCB Congener #209	79	100	"		72			9.02	30	J, Q-2



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**MRL Verification (1204111-PS1)**

Prepared: 04/23/12 Analyzed: 06/19/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	57.627		ng/kg	199.40		28.9	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	77.049		"	199.40		38.6	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	99.581		"	199.40		49.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	100.94		"	199.40		50.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	100.68		"	199.40		50.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	81.735		"	199.40		41.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	122.25		"	199.40		61.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	78.325		"	199.40		39.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	69.631		"	199.40		34.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	136.65		"	199.40		68.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	94.297		"	199.40		47.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	82.832		"	199.40		41.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	95.155		"	199.40		47.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	92.024		"	199.40		46.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	73.858		"	199.40		37.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	131.66		"	199.40		66.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	171.70		"	398.80		43.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	80.000		"	199.40		40.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	80.060		"	199.40		40.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	171.29		"	199.40		85.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	124.55		"	199.40		62.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	178.36		"	199.40		89.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	90.469		"	199.40		45.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	243.33		"	199.40		122	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	113.30		"	199.40		56.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	95.813		"	199.40		48.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	121.97		"	195.41		62.4	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	140.64		"	193.42		72.7	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	185.00		"	181.46		102	40-125			
PCB Congener # 1	19	10	"	9.9701		187	30-170			MRL-4, QR-2
PCB Congener # 3	14	10	"	9.9701		145	30-170			MRL-4
PCB Congener # 4	12	10	"	9.9701		123	30-170			MRL-4
PCB Congener # 15	11	10	"	9.9701		108	30-170			MRL-4
PCB Congener # 19	8.8	10	"	9.9701		88.2	30-170			MRL-4, Q-2, J
PCB Congener # 37	8.5	10	"	9.9701		85.2	30-170			MRL-4, Q-2, J
PCB Congener # 54	7.2	10	"	9.9701		72.4	30-170			MRL-4, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204111 - E 1668**

**MRL Verification (1204111-PS1)**

Prepared: 04/23/12 Analyzed: 06/19/12

PCB Congener # 77	8.3	10	ng/kg	9.9701		82.8	30-170			MRL-4, Q-2, J
PCB Congener # 81	9.5	10	"	9.9701		95.2	30-170			MRL-4, Q-2, J
PCB Congener #104	6.4	10	"	9.9701		64.4	30-170			MRL-4, Q-2, J
PCB Congener #105	10	10	"	9.9701		100	30-170			MRL-4, Q-2
PCB Congener #114	7.5	10	"	9.9701		75.0	30-170			MRL-4, Q-2, J
PCB Congener #118	17	10	"	9.9701		171	30-170			MRL-4, QR-2
PCB Congener #123	7.7	10	"	9.9701		77.4	30-170			MRL-4, Q-2, J
PCB Congener #126	7.3	10	"	9.9701		73.6	30-170			MRL-4, Q-2, J
PCB Congener #155	5.7	10	"	9.9701		57.4	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	14	10	"	19.940		69.9	30-170			MRL-4
PCB Congener #167	7.9	10	"	9.9701		79.4	30-170			MRL-4, Q-2, J
PCB Congener #169	10	50	"	9.9701		101	30-170			MRL-4, Q-2, J
PCB Congener #188	8.4	50	"	9.9701		84.0	30-170			MRL-4, Q-2, J
PCB Congener #189	8.0	10	"	9.9701		80.4	30-170			MRL-4, Q-2, J
PCB Congener #202	6.8	50	"	9.9701		68.0	30-170			MRL-4, Q-2, J
PCB Congener #205	8.1	10	"	9.9701		81.6	30-170			MRL-4, Q-2, J
PCB Congener #206	11	10	"	9.9701		109	30-170			MRL-4
PCB Congener #208	7.9	10	"	9.9701		79.4	30-170			MRL-4, Q-2, J
PCB Congener #209	18	100	"	19.980		89.3	30-170			MRL-4, Q-2, J



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Project: 12-0008, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1204002 - E 3550 Tissue**

**Blank (1204002-BLK1)**

Prepared: 03/29/12 Analyzed: 04/02/12

**ASB E100**

% Lipids 0.0 %

**Duplicate (1204002-DUP1)**

Source: E114506-19

Prepared: 03/29/12 Analyzed: 04/02/12

**ASB E100**

% Lipids 1.5 % 1.5 0.00 20



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QM-4 Matrix Precision outside method control limits
- QR-2 MRL verification recovery greater than upper control limits.



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**November 21, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
PCB Congeners	EPA 1668A (Water)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Report Narrative** for Work Order E124007, Project: 13-0025

11/21/12 SJH PCB Congeners: Dilutions were performed on samples and QC due to matrix interferences precluding quantitation in the undiluted extracts. Hence, some of the MRLs have been elevated.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
BB5	E124007-01	Equipment Rinse Blank	10/3/12 08:35	10/2/12 10:41
DIB	E124007-02	Dry Ice Blank	10/3/12 08:30	10/2/12 10:41
12-195	E124007-03	Fish	8/6/12 12:00	10/2/12 10:41
12-196	E124007-04	Fish	8/6/12 12:00	10/2/12 10:41
12-197	E124007-05	Fish	8/6/12 12:00	10/2/12 10:41
12-197D	E124007-06	Fish	8/6/12 12:00	10/2/12 10:41
12-198	E124007-07	Fish	8/6/12 12:00	10/2/12 10:41
12-199	E124007-08	Fish	8/6/12 12:00	10/2/12 10:41
12-200	E124007-09	Fish	8/6/12 12:00	10/2/12 10:41
12-200D	E124007-10	Fish	8/6/12 12:00	10/2/12 10:41
12-201	E124007-11	Fish	8/6/12 12:00	10/2/12 10:41
12-202	E124007-12	Fish	8/6/12 12:00	10/2/12 10:41
12-203	E124007-13	Fish	8/6/12 12:00	10/2/12 10:41
12-204	E124007-14	Fish	8/6/12 12:00	10/2/12 10:41
12-205	E124007-15	Fish	8/6/12 12:00	10/2/12 10:41
12-205D	E124007-16	Fish	8/6/12 12:00	10/2/12 10:41
12-206	E124007-17	Fish	8/6/12 12:00	10/2/12 10:41
12-207	E124007-18	Fish	8/6/12 12:00	10/2/12 10:41
12-208	E124007-19	Fish	8/6/12 12:00	10/2/12 10:41
12-209	E124007-20	Fish	8/6/12 12:00	10/2/12 10:41





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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-4	Matrix Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
40186-72-9	PCB Congener #206	250	U, B-2	pg/L	250	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-79-3	PCB Congener #207	100	U, J, QI-1	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-77-1	PCB Congener #208	100	U, J, QI-1	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2051-24-3	PCB Congener #209	500	U, J, QI-1	pg/L	500	10/17/12 9:46	11/01/12 19:17	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** DIB

**Lab ID:** E124007-02

**Station ID:**

**Matrix:** Dry Ice Blank

**Date Collected:** 10/3/12 8:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **DIB**

Lab ID: **E124007-02**

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
40186-72-9	PCB Congener #206	150	U, B-2	pg/L	150	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-77-1	PCB Congener #208	47	J, Q-2, QR-2	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2051-24-3	PCB Congener #209	400	J, Q-2, QL-2, QR-2	pg/L	500	10/17/12 9:46	11/01/12 20:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
13029-08-8	PCB Congener # 4	24		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
34883-43-7	PCB Congener # 8	21	U, B-5	ng/kg	21	10/18/12 17:44	10/25/12 18:59	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2050-68-2	PCB Congener # 15	28		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-78-9	PCB Congener # 16	13		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
37680-66-3	PCB Congener # 17	50		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	40	U, B-5	ng/kg	40	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-73-4	PCB Congener # 19	19		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	170		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	13	U, B-5	ng/kg	13	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-85-8	PCB Congener # 22	21		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	15		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-76-7	PCB Congener # 27	14		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
16606-02-3	PCB Congener # 31	79		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-77-8	PCB Congener # 32	21		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-90-5	PCB Congener # 37	14	U, B-2	ng/kg	14	10/18/12 17:44	10/25/12 18:59	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	74		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
36559-22-5	PCB Congener # 42	71		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-46-8	PCB Congener # 43	11		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	550		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	25		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-47-9	PCB Congener # 48	28		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	320		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	43		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
35693-99-3	PCB Congener # 52	540		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-43-1	PCB Congener # 56	67		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	40		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33025-41-1	PCB Congener # 60	44		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	540		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74472-34-7	PCB Congener # 63	29		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-58-8	PCB Congener # 64	150		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32598-10-0	PCB Congener # 66	520		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-52-7	PCB Congener # 68	20		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	18		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32598-13-3	PCB Congener # 77	20		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-62-4	PCB Congener # 82	42		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1100		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-60-2	PCB Congener # 84	75		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	250		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	500		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	120		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1100		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-61-3	PCB Congener # 92	270		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	410		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
60145-21-3	PCB Congener #103	17		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32598-14-4	PCB Congener #105	370		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70424-68-9	PCB Congener #107	110		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	26		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	900		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	21		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
31508-00-6	PCB Congener #118	1200		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
68194-12-7	PCB Congener #120	18		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
65510-44-3	PCB Congener #123	25		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	290		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2200		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-66-8	PCB Congener #130	110		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
38380-05-1	PCB Congener #132	190		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35694-04-3	PCB Congener #133	53		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	670		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35694-06-5	PCB Congener #137	78		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52712-04-6	PCB Congener #141	140		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
68194-14-9	PCB Congener #144	51		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
51908-16-8	PCB Congener #146	530		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1200		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2500		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	40		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	180		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74472-42-7	PCB Congener #158	130		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-45-0	PCB Congener #164	96		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-72-6	PCB Congener #167	80		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	77		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
38411-25-5	PCB Congener #174	120		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-67-9	PCB Congener #178	120		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-64-6	PCB Congener #179	78		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	630		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	290		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-48-3	PCB Congener #184	51		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-68-0	PCB Congener #187	890		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
39635-31-9	PCB Congener #189	8.7	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
41411-64-7	PCB Congener #190	59		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35694-08-7	PCB Congener #194	63		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
42740-50-1	PCB Congener #196	50		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	250		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
2136-99-4	PCB Congener #202	130		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-76-0	PCB Congener #203	260		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-53-0	PCB Congener #205	9.7	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
40186-72-9	PCB Congener #206	220		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-77-1	PCB Congener #208	97		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	99	10/18/12 17:44	10/30/12 18:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
13029-08-8	PCB Congener # 4	9.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
34883-43-7	PCB Congener # 8	11	U, B-5	ng/kg	11	10/18/12 17:44	10/25/12 20:02	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2050-68-2	PCB Congener # 15	13	U, B-2	ng/kg	13	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
37680-66-3	PCB Congener # 17	20		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	19	U, B-5	ng/kg	19	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-73-4	PCB Congener # 19	5.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	68		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-85-8	PCB Congener # 22	10		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
16606-02-3	PCB Congener # 31	35	U, B-5	ng/kg	35	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	37		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
36559-22-5	PCB Congener # 42	34		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	250		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	12		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-47-9	PCB Congener # 48	11		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	160		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	18		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
35693-99-3	PCB Congener # 52	250		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	22		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33025-41-1	PCB Congener # 60	29		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	310		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74472-34-7	PCB Congener # 63	15		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-58-8	PCB Congener # 64	66		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32598-10-0	PCB Congener # 66	290		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32598-13-3	PCB Congener # 77	11		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-62-4	PCB Congener # 82	21		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	580		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-60-2	PCB Congener # 84	31		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	240		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	55		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	490		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-61-3	PCB Congener # 92	140		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	170		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32598-14-4	PCB Congener #105	220		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70424-68-9	PCB Congener #107	64		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	450		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	12		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
31508-00-6	PCB Congener #118	780		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
68194-12-7	PCB Congener #120	11		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
65510-44-3	PCB Congener #123	14		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	180		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1300		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
38380-05-1	PCB Congener #132	82		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	320		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52712-04-6	PCB Congener #141	96		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
51908-16-8	PCB Congener #146	310		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	660		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1500		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	22		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74472-42-7	PCB Congener #158	75		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-45-0	PCB Congener #164	53		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-72-6	PCB Congener #167	49		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35065-30-6	PCB Congener #170	150		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
38411-25-5	PCB Congener #174	72		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-70-4	PCB Congener #177	65		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-67-9	PCB Congener #178	70		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	360		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	180		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-68-0	PCB Congener #187	630		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
39635-31-9	PCB Congener #189	8.5	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	220		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
2136-99-4	PCB Congener #202	71		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-76-0	PCB Congener #203	200		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
40186-72-9	PCB Congener #206	160		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-77-1	PCB Congener #208	71		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
2051-24-3	PCB Congener #209	100		ng/kg	100	10/18/12 17:44	10/30/12 19:53	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
13029-08-8	PCB Congener # 4	18		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
34883-43-7	PCB Congener # 8	14	U, B-5	ng/kg	14	10/18/12 17:44	10/25/12 21:06	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2050-68-2	PCB Congener # 15	21	U, B-2	ng/kg	21	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-78-9	PCB Congener # 16	18		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
37680-66-3	PCB Congener # 17	59		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	53		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-73-4	PCB Congener # 19	17		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	230		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	18	U, B-5	ng/kg	18	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-85-8	PCB Congener # 22	30		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
55712-37-3	PCB Congener # 25	12		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	20		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-76-7	PCB Congener # 27	17		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
16606-02-3	PCB Congener # 31	110		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-77-8	PCB Congener # 32	25		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-90-5	PCB Congener # 37	14		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	85		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
36559-22-5	PCB Congener # 42	100		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-46-8	PCB Congener # 43	12		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	680		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	35		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-47-9	PCB Congener # 48	45		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	470		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	51		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
35693-99-3	PCB Congener # 52	700		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-43-1	PCB Congener # 56	110		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	48		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33025-41-1	PCB Congener # 60	62		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	720		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74472-34-7	PCB Congener # 63	37		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-58-8	PCB Congener # 64	160		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32598-10-0	PCB Congener # 66	670		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-52-7	PCB Congener # 68	21		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	22		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32598-13-3	PCB Congener # 77	27		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-62-4	PCB Congener # 82	63		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1500		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-60-2	PCB Congener # 84	110		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	330		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	700		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	170		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	940		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-61-3	PCB Congener # 92	400		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	590		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
60145-21-3	PCB Congener #103	29		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32598-14-4	PCB Congener #105	480		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70424-68-9	PCB Congener #107	160		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	35		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1300		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	29		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
31508-00-6	PCB Congener #118	1700		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
68194-12-7	PCB Congener #120	28		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
65510-44-3	PCB Congener #123	30		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	430		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3200		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-66-8	PCB Congener #130	160		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
38380-05-1	PCB Congener #132	260		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35694-04-3	PCB Congener #133	91		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1200		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
38411-22-2	PCB Congener #136	98		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35694-06-5	PCB Congener #137	110		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	64		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52712-04-6	PCB Congener #141	230		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
68194-14-9	PCB Congener #144	81		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
51908-16-8	PCB Congener #146	830		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1800		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4000		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	61		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	270		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74472-42-7	PCB Congener #158	240		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-72-6	PCB Congener #167	140		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35065-30-6	PCB Congener #170	460		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	160		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-74-8	PCB Congener #172	100		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
38411-25-5	PCB Congener #174	220		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-65-7	PCB Congener #176	51		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-70-4	PCB Congener #177	220		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-67-9	PCB Congener #178	330		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-64-6	PCB Congener #179	180		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1300		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	610		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-48-3	PCB Congener #184	110		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-68-0	PCB Congener #187	1800		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
39635-31-9	PCB Congener #189	20	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
41411-64-7	PCB Congener #190	150		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35694-08-7	PCB Congener #194	140		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-78-2	PCB Congener #195	79		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	610		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
40186-71-8	PCB Congener #201	55		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
2136-99-4	PCB Congener #202	260		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-76-0	PCB Congener #203	470		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
40186-72-9	PCB Congener #206	550		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-79-3	PCB Congener #207	61		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-77-1	PCB Congener #208	240		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
2051-24-3	PCB Congener #209	400		ng/kg	100	10/18/12 17:44	10/30/12 20:57	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.4		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
13029-08-8	PCB Congener # 4	19		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
34883-43-7	PCB Congener # 8	13	U, B-5	ng/kg	13	10/18/12 17:44	10/25/12 22:10	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2050-68-2	PCB Congener # 15	20	U, B-2	ng/kg	20	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-78-9	PCB Congener # 16	16		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
37680-66-3	PCB Congener # 17	51		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	43		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-73-4	PCB Congener # 19	17		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	170		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	15	U, B-5	ng/kg	15	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-85-8	PCB Congener # 22	23		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
55712-37-3	PCB Congener # 25	10		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	18		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-76-7	PCB Congener # 27	13		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
16606-02-3	PCB Congener # 31	88		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-77-8	PCB Congener # 32	22		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-90-5	PCB Congener # 37	15		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	99		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
36559-22-5	PCB Congener # 42	92		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	640		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	31		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-47-9	PCB Congener # 48	44		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	420		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	52		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
35693-99-3	PCB Congener # 52	670		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-43-1	PCB Congener # 56	92		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	49		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33025-41-1	PCB Congener # 60	57		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	710		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74472-34-7	PCB Congener # 63	33		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-58-8	PCB Congener # 64	180		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32598-10-0	PCB Congener # 66	610		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-52-7	PCB Congener # 68	23		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	22		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32598-13-3	PCB Congener # 77	23		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-62-4	PCB Congener # 82	52		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1500		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-60-2	PCB Congener # 84	93		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	240		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	660		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	150		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1400		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-61-3	PCB Congener # 92	360		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	550		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
60145-21-3	PCB Congener #103	26		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32598-14-4	PCB Congener #105	450		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70424-68-9	PCB Congener #107	150		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	32		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	970		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	29		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
31508-00-6	PCB Congener #118	1700		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
68194-12-7	PCB Congener #120	27		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
65510-44-3	PCB Congener #123	26		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	400		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2900		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-66-8	PCB Congener #130	160		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
38380-05-1	PCB Congener #132	250		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35694-04-3	PCB Congener #133	84		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	940		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
38411-22-2	PCB Congener #136	83		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	52		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52712-04-6	PCB Congener #141	230		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
68194-14-9	PCB Congener #144	64		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
51908-16-8	PCB Congener #146	740		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1500		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3700		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	64		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	260		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74472-42-7	PCB Congener #158	210		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-45-0	PCB Congener #164	110		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-72-6	PCB Congener #167	130		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35065-30-6	PCB Congener #170	400		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	130		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-74-8	PCB Congener #172	84		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
38411-25-5	PCB Congener #174	170		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-70-4	PCB Congener #177	200		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-67-9	PCB Congener #178	240		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-64-6	PCB Congener #179	130		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1100		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	490		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-48-3	PCB Congener #184	83		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-68-0	PCB Congener #187	1400		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74487-85-7	PCB Congener #188	5.7	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
39635-31-9	PCB Congener #189	21	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
41411-64-7	PCB Congener #190	120		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35694-08-7	PCB Congener #194	150		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-78-2	PCB Congener #195	83		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
42740-50-1	PCB Congener #196	130		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	560		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
2136-99-4	PCB Congener #202	280		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-76-0	PCB Congener #203	500		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
40186-72-9	PCB Congener #206	590		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-79-3	PCB Congener #207	56		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-77-1	PCB Congener #208	240		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
2051-24-3	PCB Congener #209	410		ng/kg	100	10/18/12 17:44	10/30/12 22:01	EPA 1668A





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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
13029-08-8	PCB Congener # 4	13		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2050-68-2	PCB Congener # 15	15	U, B-2	ng/kg	15	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
37680-66-3	PCB Congener # 17	34		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	28	U, B-5	ng/kg	28	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-73-4	PCB Congener # 19	8.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	140		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-85-8	PCB Congener # 22	17		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	13		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
16606-02-3	PCB Congener # 31	70		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-77-8	PCB Congener # 32	14		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-90-5	PCB Congener # 37	14	U, B-2	ng/kg	14	10/18/12 17:44	10/25/12 23:14	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	99		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
36559-22-5	PCB Congener # 42	97		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-46-8	PCB Congener # 43	11		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	710		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	28		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-47-9	PCB Congener # 48	41		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	480		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	55		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
35693-99-3	PCB Congener # 52	750		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-43-1	PCB Congener # 56	97		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	49		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33025-41-1	PCB Congener # 60	64		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	760		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74472-34-7	PCB Congener # 63	39		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-58-8	PCB Congener # 64	180		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32598-10-0	PCB Congener # 66	700		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-52-7	PCB Congener # 68	27		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	25		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32598-13-3	PCB Congener # 77	28		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-62-4	PCB Congener # 82	66		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1700		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-60-2	PCB Congener # 84	98		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	410		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	840		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	190		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1800		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-61-3	PCB Congener # 92	460		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	680		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
60145-21-3	PCB Congener #103	31		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32598-14-4	PCB Congener #105	610		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70424-68-9	PCB Congener #107	170		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	38		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1500		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	40		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
31508-00-6	PCB Congener #118	2000		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
68194-12-7	PCB Congener #120	24		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
65510-44-3	PCB Congener #123	31		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	460		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3700		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-66-8	PCB Congener #130	180		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
38380-05-1	PCB Congener #132	250		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35694-04-3	PCB Congener #133	79	J, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1000		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
38411-22-2	PCB Congener #136	63		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	67		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52712-04-6	PCB Congener #141	260		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
68194-14-9	PCB Congener #144	87		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
51908-16-8	PCB Congener #146	800		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1700		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4100		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	79		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	280		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74472-42-7	PCB Congener #158	250		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-72-6	PCB Congener #167	130		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35065-30-6	PCB Congener #170	410		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	140		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-74-8	PCB Congener #172	89		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
38411-25-5	PCB Congener #174	200		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-70-4	PCB Congener #177	200		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-67-9	PCB Congener #178	230		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-64-6	PCB Congener #179	90		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1100		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	470		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-48-3	PCB Congener #184	94		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-68-0	PCB Congener #187	1500		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
39635-31-9	PCB Congener #189	18	J, Q-2, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
41411-64-7	PCB Congener #190	120		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35694-08-7	PCB Congener #194	140		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-78-2	PCB Congener #195	75		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
42740-50-1	PCB Congener #196	120	J, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	500		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
40186-71-8	PCB Congener #201	53	J, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
2136-99-4	PCB Congener #202	240		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-76-0	PCB Congener #203	460		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
40186-72-9	PCB Congener #206	370		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-77-1	PCB Congener #208	150		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
2051-24-3	PCB Congener #209	240		ng/kg	100	10/18/12 17:44	10/30/12 23:05	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** 12-198

**Lab ID:** E124007-07

**Station ID:** YAD-FALLS

**Matrix:** Fish

**Date Collected:** 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
13029-08-8	PCB Congener # 4	20		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
34883-43-7	PCB Congener # 8	15	U, B-5	ng/kg	15	10/18/12 17:44	10/26/12 13:20	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
37680-66-3	PCB Congener # 17	35		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-73-4	PCB Congener # 19	8.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	250		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	12	U, B-5	ng/kg	12	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-85-8	PCB Congener # 22	22		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
16606-02-3	PCB Congener # 31	53		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-77-8	PCB Congener # 32	12		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	150		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
36559-22-5	PCB Congener # 42	110		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1500		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	19		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-47-9	PCB Congener # 48	62		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	900		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	21		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
35693-99-3	PCB Congener # 52	680		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-43-1	PCB Congener # 56	89		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33025-41-1	PCB Congener # 60	140		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74472-34-7	PCB Congener # 63	100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
52663-58-8	PCB Congener # 64	290		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32598-10-0	PCB Congener # 66	2200		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-52-7	PCB Congener # 68	66		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	46		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32598-13-3	PCB Congener # 77	8.4	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
52663-62-4	PCB Congener # 82	49		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	5400		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-60-2	PCB Congener # 84	23		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	1100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1200		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	300		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	3300		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
52663-61-3	PCB Congener # 92	760		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	760		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-55-0	PCB Congener # 94	12		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
60145-21-3	PCB Congener #103	53		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32598-14-4	PCB Congener #105	2100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70424-68-9	PCB Congener #107	580		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	46		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2700		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
39635-32-0	PCB Congener #111	12		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	130		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
31508-00-6	PCB Congener #118	7400		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-12-7	PCB Congener #120	98		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
56558-18-0	PCB Congener #121	22		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
65510-44-3	PCB Congener #123	120		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	1700		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	14000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-66-8	PCB Congener #130	640		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
38380-05-1	PCB Congener #132	540		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35694-04-3	PCB Congener #133	330		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	3300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35694-06-5	PCB Congener #137	530		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	220		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52712-04-6	PCB Congener #141	810		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-14-9	PCB Congener #144	170		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
51908-16-8	PCB Congener #146	3300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	4800		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-41-6	PCB Congener #148	86		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	17000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	220		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	1200		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74472-42-7	PCB Congener #158	990		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-45-0	PCB Congener #164	440		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-72-6	PCB Congener #167	700		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35065-30-6	PCB Congener #170	1300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	500		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-74-8	PCB Congener #172	290		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
38411-25-5	PCB Congener #174	640		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
40186-70-7	PCB Congener #175	130		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-65-7	PCB Congener #176	78		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-70-4	PCB Congener #177	1000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-67-9	PCB Congener #178	920		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-64-6	PCB Congener #179	510		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	4300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1800		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-48-3	PCB Congener #184	300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-68-0	PCB Congener #187	6300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74487-85-7	PCB Congener #188	22	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
39635-31-9	PCB Congener #189	61		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
41411-64-7	PCB Congener #190	500		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	72		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35694-08-7	PCB Congener #194	430		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-78-2	PCB Congener #195	290		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
42740-50-1	PCB Congener #196	350		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	85		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	2100		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
40186-71-8	PCB Congener #201	220		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
2136-99-4	PCB Congener #202	1000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-76-0	PCB Congener #203	2000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-53-0	PCB Congener #205	84		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
40186-72-9	PCB Congener #206	1400		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-79-3	PCB Congener #207	180		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-77-1	PCB Congener #208	880		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
2051-24-3	PCB Congener #209	1300		ng/kg	100	10/18/12 17:44	10/31/12 0:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.9		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
13029-08-8	PCB Congener # 4	4.2	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	25	U, B-2	ng/kg	25	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
16606-02-3	PCB Congener # 31	15	U, B-5	ng/kg	15	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	16		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
36559-22-5	PCB Congener # 42	14		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	81		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	54		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
35693-99-3	PCB Congener # 52	59	U, B-2	ng/kg	59	10/18/12 17:44	10/26/12 14:24	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-43-1	PCB Congener # 56	13		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33025-41-1	PCB Congener # 60	13		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	83		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-58-8	PCB Congener # 64	19		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32598-10-0	PCB Congener # 66	130		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32598-13-3	PCB Congener # 77	3.8	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	240		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	43		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	81		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	15		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	200		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-61-3	PCB Congener # 92	45		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	50		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32598-14-4	PCB Congener #105	86		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70424-68-9	PCB Congener #107	23		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	82		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.8	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
31508-00-6	PCB Congener #118	340		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
65510-44-3	PCB Congener #123	6.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	55		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	480		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
51908-16-8	PCB Congener #146	120		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	160		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	600		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	7.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	64		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-72-6	PCB Congener #167	30		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35065-30-6	PCB Congener #170	64		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	190		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	59		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-68-0	PCB Congener #187	190		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	56		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
2136-99-4	PCB Congener #202	40	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-76-0	PCB Congener #203	71		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
40186-72-9	PCB Congener #206	63	U, B-2	ng/kg	63	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
2051-24-3	PCB Congener #209	53	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
13029-08-8	PCB Congener # 4	4.8	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	31	U, B-2	ng/kg	31	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
16606-02-3	PCB Congener # 31	14	U, B-5	ng/kg	14	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
36559-22-5	PCB Congener # 42	13		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	90		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	50		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
35693-99-3	PCB Congener # 52	72	U, B-2	ng/kg	72	10/18/12 17:44	10/26/12 15:27	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-43-1	PCB Congener # 56	11		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33025-41-1	PCB Congener # 60	15		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	89		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-58-8	PCB Congener # 64	20		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32598-10-0	PCB Congener # 66	110		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32598-13-3	PCB Congener # 77	3.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	200		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	44		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	80		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	14		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	170		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-61-3	PCB Congener # 92	41		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	44	U, B-5	ng/kg	44	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32598-14-4	PCB Congener #105	65		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70424-68-9	PCB Congener #107	19		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	91		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
31508-00-6	PCB Congener #118	250		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
65510-44-3	PCB Congener #123	4.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	52		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	370		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	71		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
51908-16-8	PCB Congener #146	77		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	110		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	420		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	6.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	34		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	73		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-68-0	PCB Congener #187	180		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	54		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
2136-99-4	PCB Congener #202	45	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-76-0	PCB Congener #203	71		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
40186-72-9	PCB Congener #206	69	U, B-2	ng/kg	69	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
2051-24-3	PCB Congener #209	51	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 18:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
13029-08-8	PCB Congener # 4	5.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-73-4	PCB Congener # 19	2.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	24	U, B-2	ng/kg	24	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
16606-02-3	PCB Congener # 31	13	U, B-5	ng/kg	13	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	51	U, B-2	ng/kg	51	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	36		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
35693-99-3	PCB Congener # 52	55	U, B-2	ng/kg	55	10/18/12 17:44	10/29/12 12:34	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	53	U, B-2	ng/kg	53	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-58-8	PCB Congener # 64	13		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32598-10-0	PCB Congener # 66	56		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32598-13-3	PCB Congener # 77	3.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	150		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	32		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	57		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	130		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-61-3	PCB Congener # 92	33		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	38	U, B-5	ng/kg	38	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32598-14-4	PCB Congener #105	53		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70424-68-9	PCB Congener #107	18		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	93		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
31508-00-6	PCB Congener #118	190		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
65510-44-3	PCB Congener #123	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	53		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	350		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	75		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
51908-16-8	PCB Congener #146	69		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	370		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.7	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	32		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-72-6	PCB Congener #167	14		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	62		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-68-0	PCB Congener #187	170		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
2136-99-4	PCB Congener #202	30	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-76-0	PCB Congener #203	54		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
40186-72-9	PCB Congener #206	69	U, B-2	ng/kg	69	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
2051-24-3	PCB Congener #209	39	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 19:56	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.50		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
13029-08-8	PCB Congener # 4	7.7	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
37680-66-3	PCB Congener # 17	18		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	14	U, B-5	ng/kg	14	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-73-4	PCB Congener # 19	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	47	U, B-2	ng/kg	47	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
16606-02-3	PCB Congener # 31	20	U, B-5	ng/kg	20	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
36559-22-5	PCB Congener # 42	15		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	97		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	14		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
35693-99-3	PCB Congener # 52	150		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-43-1	PCB Congener # 56	16		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33025-41-1	PCB Congener # 60	15		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	140		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-58-8	PCB Congener # 64	25		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32598-10-0	PCB Congener # 66	180		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32598-13-3	PCB Congener # 77	6.4	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	360		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	91		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	130		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	25		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-61-3	PCB Congener # 92	69		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	93		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32598-14-4	PCB Congener #105	150		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70424-68-9	PCB Congener #107	42		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	120		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.2	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
31508-00-6	PCB Congener #118	510		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
65510-44-3	PCB Congener #123	12		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	700		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	130		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
51908-16-8	PCB Congener #146	140		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	250		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	760		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	11		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	73		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-72-6	PCB Congener #167	34		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35065-30-6	PCB Congener #170	95		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
38411-25-5	PCB Congener #174	50		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-70-4	PCB Congener #177	69		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-67-9	PCB Congener #178	56		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	310		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-68-0	PCB Congener #187	380		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	83		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
2136-99-4	PCB Congener #202	55		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-76-0	PCB Congener #203	90		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
40186-72-9	PCB Congener #206	86	U, B-2	ng/kg	86	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-77-1	PCB Congener #208	55		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
2051-24-3	PCB Congener #209	65	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 21:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
13029-08-8	PCB Congener # 4	8.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
37680-66-3	PCB Congener # 17	20		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	17	U, B-5	ng/kg	17	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-73-4	PCB Congener # 19	3.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	35	U, B-2	ng/kg	35	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
16606-02-3	PCB Congener # 31	15	U, B-5	ng/kg	15	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
36559-22-5	PCB Congener # 42	12		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	77		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	48		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
35693-99-3	PCB Congener # 52	81	U, B-2	ng/kg	81	10/18/12 17:44	10/29/12 14:42	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	69	U, B-2	ng/kg	69	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-58-8	PCB Congener # 64	14		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32598-10-0	PCB Congener # 66	80		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32598-13-3	PCB Congener # 77	5.4	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	130		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	30		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	49		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	13		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	140		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-61-3	PCB Congener # 92	28		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	50		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32598-14-4	PCB Congener #105	48		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70424-68-9	PCB Congener #107	15		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	52	U, B-2	ng/kg	52	10/18/12 17:44	10/29/12 14:42	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
31508-00-6	PCB Congener #118	180		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
65510-44-3	PCB Congener #123	2.9	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	230		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	92		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	260		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	20		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-72-6	PCB Congener #167	11		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	85		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-68-0	PCB Congener #187	110		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
2136-99-4	PCB Congener #202	17	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
40186-72-9	PCB Congener #206	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	10/18/12 17:44	10/31/12 22:04	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** 12-203

**Lab ID:** E124007-13

**Station ID:** YAD-FALLS

**Matrix:** Fish

**Date Collected:** 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.8		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
13029-08-8	PCB Congener # 4	4.9	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-73-4	PCB Congener # 19	2.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	16	U, B-2	ng/kg	16	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 12-204**

**Lab ID: E124007-14**

**Station ID: YAD-FALLS**

**Matrix: Fish**

**Date Collected: 8/6/12 12:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	29	U, B-2	ng/kg	29	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	15	U, B-5	ng/kg	15	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
35693-99-3	PCB Congener # 52	22	U, B-2	ng/kg	22	10/18/12 17:44	10/29/12 15:45	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	26	U, B-2	ng/kg	26	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-58-8	PCB Congener # 64	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32598-10-0	PCB Congener # 66	33	U, B-5	ng/kg	33	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32598-13-3	PCB Congener # 77	2.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	35	U, B-5	ng/kg	35	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	11		ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	12		ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	41	U, B-2	ng/kg	41	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-61-3	PCB Congener # 92	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	13	U, B-5	ng/kg	13	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32598-14-4	PCB Congener #105	21	U, B-2	ng/kg	21	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	23	U, B-2	ng/kg	23	10/18/12 17:44	10/29/12 15:45	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
31508-00-6	PCB Congener #118	65		ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
65510-44-3	PCB Congener #123	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	79	U, B-2	ng/kg	79	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	78	U, B-2	ng/kg	78	10/18/12 17:44	10/31/12 23:08	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	8.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-72-6	PCB Congener #167	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-68-0	PCB Congener #187	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A





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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
2136-99-4	PCB Congener #202	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
40186-72-9	PCB Congener #206	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	10/18/12 17:44	10/31/12 23:08	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
13029-08-8	PCB Congener # 4	46		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
34883-43-7	PCB Congener # 8	24	U, B-5	ng/kg	24	10/18/12 17:44	10/29/12 16:49	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2050-68-2	PCB Congener # 15	19	U, B-2	ng/kg	19	10/18/12 17:44	10/29/12 16:49	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
37680-66-3	PCB Congener # 17	210		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	140		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-73-4	PCB Congener # 19	15	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	360		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-85-8	PCB Congener # 22	59		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
16606-02-3	PCB Congener # 31	150		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-77-8	PCB Congener # 32	62		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-90-5	PCB Congener # 37	12	U, B-2	ng/kg	12	10/18/12 17:44	10/29/12 16:49	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	160		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
36559-22-5	PCB Congener # 42	400		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-46-8	PCB Congener # 43	36		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1500		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	70		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-47-9	PCB Congener # 48	100		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	180		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
35693-99-3	PCB Congener # 52	1800		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-43-1	PCB Congener # 56	97		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70424-67-8	PCB Congener # 57	33		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33025-41-1	PCB Congener # 60	140		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74472-34-7	PCB Congener # 63	73		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-58-8	PCB Congener # 64	530		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32598-10-0	PCB Congener # 66	1800		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-53-8	PCB Congener # 67	13		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-52-7	PCB Congener # 68	53		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	43		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32598-13-3	PCB Congener # 77	45		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-48-6	PCB Congener # 79	20		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	3700		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-60-2	PCB Congener # 84	72		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	690		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	420		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	3500		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-61-3	PCB Congener # 92	820		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-55-0	PCB Congener # 94	11		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
60145-21-3	PCB Congener #103	57		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32598-14-4	PCB Congener #105	1200		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70424-68-9	PCB Congener #107	330		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	69		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2800		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	75		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
31508-00-6	PCB Congener #118	4600		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-12-7	PCB Congener #120	60		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
56558-18-0	PCB Congener #121	12		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
65510-44-3	PCB Congener #123	94		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	810		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	7200		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-66-8	PCB Congener #130	280		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38380-05-1	PCB Congener #132	310		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35694-04-3	PCB Congener #133	170		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1800		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38411-22-2	PCB Congener #136	74		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35694-06-5	PCB Congener #137	220		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	110		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52712-04-6	PCB Congener #141	430		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-14-9	PCB Congener #144	120		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
51908-16-8	PCB Congener #146	1600		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	3700		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	11000		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	130		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	600		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74472-42-7	PCB Congener #158	480		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-45-0	PCB Congener #164	270		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-72-6	PCB Congener #167	400		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35065-30-6	PCB Congener #170	720		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	290		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-74-8	PCB Congener #172	180		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38411-25-5	PCB Congener #174	470		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
40186-70-7	PCB Congener #175	59		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-65-7	PCB Congener #176	55		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-70-4	PCB Congener #177	430		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-67-9	PCB Congener #178	440		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-64-6	PCB Congener #179	310		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	2500		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	990		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-48-3	PCB Congener #184	130		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-68-0	PCB Congener #187	2700		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74487-85-7	PCB Congener #188	11	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
39635-31-9	PCB Congener #189	32	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
41411-64-7	PCB Congener #190	270		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35694-08-7	PCB Congener #194	330		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-78-2	PCB Congener #195	190		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
42740-50-1	PCB Congener #196	230		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	52		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	850		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
40186-71-8	PCB Congener #201	140		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
2136-99-4	PCB Congener #202	610		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-76-0	PCB Congener #203	1200		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-53-0	PCB Congener #205	38	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
40186-72-9	PCB Congener #206	850		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-79-3	PCB Congener #207	96		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-77-1	PCB Congener #208	480		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
2051-24-3	PCB Congener #209	660		ng/kg	100	10/18/12 17:44	11/01/12 0:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	5.8		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
13029-08-8	PCB Congener # 4	49		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
34883-43-7	PCB Congener # 8	24	U, B-5	ng/kg	24	10/18/12 17:44	10/29/12 17:53	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2050-68-2	PCB Congener # 15	18	U, B-2	ng/kg	18	10/18/12 17:44	10/29/12 17:53	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
37680-66-3	PCB Congener # 17	210		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	140		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	350		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-85-8	PCB Congener # 22	54		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
16606-02-3	PCB Congener # 31	150		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-77-8	PCB Congener # 32	59		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-90-5	PCB Congener # 37	12	U, B-2	ng/kg	12	10/18/12 17:44	10/29/12 17:53	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	140		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
36559-22-5	PCB Congener # 42	390		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1400		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	61		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-47-9	PCB Congener # 48	98		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1100		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	160		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
35693-99-3	PCB Congener # 52	1700		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-43-1	PCB Congener # 56	91		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70424-67-8	PCB Congener # 57	39		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33025-41-1	PCB Congener # 60	140		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1300		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74472-34-7	PCB Congener # 63	68		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-58-8	PCB Congener # 64	430		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32598-10-0	PCB Congener # 66	1600		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-53-8	PCB Congener # 67	12		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-52-7	PCB Congener # 68	52		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	41		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32598-13-3	PCB Congener # 77	49		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-48-6	PCB Congener # 79	13		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	3500		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-60-2	PCB Congener # 84	75		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	750		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1500		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	420		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	3800		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-61-3	PCB Congener # 92	820		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1300		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-55-0	PCB Congener # 94	11		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
60145-21-3	PCB Congener #103	59		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32598-14-4	PCB Congener #105	1200		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70424-68-9	PCB Congener #107	320		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	78		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2900		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	77		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
31508-00-6	PCB Congener #118	4600		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-12-7	PCB Congener #120	63		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
56558-18-0	PCB Congener #121	11		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
65510-44-3	PCB Congener #123	110		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	720		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	6200		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-66-8	PCB Congener #130	270		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38380-05-1	PCB Congener #132	280		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35694-04-3	PCB Congener #133	160		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1600		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38411-22-2	PCB Congener #136	62		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35694-06-5	PCB Congener #137	250		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52712-04-6	PCB Congener #141	420		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-14-9	PCB Congener #144	120		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
51908-16-8	PCB Congener #146	1500		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	3400		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	9900		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	120		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	590		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74472-42-7	PCB Congener #158	450		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-45-0	PCB Congener #164	230		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-72-6	PCB Congener #167	430		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35065-30-6	PCB Congener #170	830		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	310		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-74-8	PCB Congener #172	160		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38411-25-5	PCB Congener #174	450		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
40186-70-7	PCB Congener #175	55		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-65-7	PCB Congener #176	60		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-70-4	PCB Congener #177	460		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-67-9	PCB Congener #178	450		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-64-6	PCB Congener #179	330		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	2800		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1100		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-48-3	PCB Congener #184	130		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-68-0	PCB Congener #187	2600		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74487-85-7	PCB Congener #188	12	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
39635-31-9	PCB Congener #189	33	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
41411-64-7	PCB Congener #190	290		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35694-08-7	PCB Congener #194	410		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-78-2	PCB Congener #195	180		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
42740-50-1	PCB Congener #196	270		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	65		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	900		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
40186-71-8	PCB Congener #201	130		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
2136-99-4	PCB Congener #202	590		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-76-0	PCB Congener #203	1200		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-53-0	PCB Congener #205	31	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
40186-72-9	PCB Congener #206	850		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-79-3	PCB Congener #207	90		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-77-1	PCB Congener #208	480		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
2051-24-3	PCB Congener #209	720		ng/kg	100	10/18/12 17:44	11/01/12 1:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	4.1		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
13029-08-8	PCB Congener # 4	56		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
34883-43-7	PCB Congener # 8	20	U, B-5	ng/kg	20	10/18/12 17:44	10/29/12 18:57	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2050-68-2	PCB Congener # 15	20	U, B-2	ng/kg	20	10/18/12 17:44	10/29/12 18:57	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
37680-66-3	PCB Congener # 17	170		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	130		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	370		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-85-8	PCB Congener # 22	54		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
16606-02-3	PCB Congener # 31	140		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A





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 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-90-5	PCB Congener # 37	13	U, B-2	ng/kg	13	10/18/12 17:44	10/29/12 18:57	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	97		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
36559-22-5	PCB Congener # 42	490		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-46-8	PCB Congener # 43	32		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1200		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	52		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-47-9	PCB Congener # 48	86		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	150		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
35693-99-3	PCB Congener # 52	1700		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-43-1	PCB Congener # 56	58		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33025-41-1	PCB Congener # 60	120		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74472-34-7	PCB Congener # 63	64		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-58-8	PCB Congener # 64	500		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32598-10-0	PCB Congener # 66	1600		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-52-7	PCB Congener # 68	34		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	29		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32598-13-3	PCB Congener # 77	51		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-48-6	PCB Congener # 79	16		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2700		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-60-2	PCB Congener # 84	64		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	490		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	280		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	2600		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-61-3	PCB Congener # 92	570		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
60145-21-3	PCB Congener #103	40		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32598-14-4	PCB Congener #105	740		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70424-68-9	PCB Congener #107	220		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	50		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	41		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
31508-00-6	PCB Congener #118	2800		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
68194-12-7	PCB Congener #120	41		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
65510-44-3	PCB Congener #123	68		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	490		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	4400		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-66-8	PCB Congener #130	190		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38380-05-1	PCB Congener #132	220		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35694-04-3	PCB Congener #133	110		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1300		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38411-22-2	PCB Congener #136	56		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	64		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
68194-14-9	PCB Congener #144	84		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
51908-16-8	PCB Congener #146	1000		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	2700		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	6800		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	110		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	300		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74472-42-7	PCB Congener #158	300		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-45-0	PCB Congener #164	150		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-72-6	PCB Congener #167	270		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35065-30-6	PCB Congener #170	320		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	170		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-74-8	PCB Congener #172	74		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38411-25-5	PCB Congener #174	200		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-65-7	PCB Congener #176	51		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-70-4	PCB Congener #177	300		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-67-9	PCB Congener #178	330		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-64-6	PCB Congener #179	250		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1400		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	570		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-48-3	PCB Congener #184	120		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-68-0	PCB Congener #187	1600		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74487-85-7	PCB Congener #188	7.5	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
39635-31-9	PCB Congener #189	14	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
41411-64-7	PCB Congener #190	180		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35694-08-7	PCB Congener #194	140		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-78-2	PCB Congener #195	92		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	380		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
40186-71-8	PCB Congener #201	76		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
2136-99-4	PCB Congener #202	400		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-76-0	PCB Congener #203	660		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-53-0	PCB Congener #205	16	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
40186-72-9	PCB Congener #206	320		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-77-1	PCB Congener #208	170		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
2051-24-3	PCB Congener #209	250		ng/kg	100	10/18/12 17:44	11/01/12 2:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** 12-206

**Lab ID:** E124007-17

**Station ID:** YAD-FALLS

**Matrix:** Fish

**Date Collected:** 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	5.2		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
13029-08-8	PCB Congener # 4	36		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
34883-43-7	PCB Congener # 8	17	U, B-5	ng/kg	17	10/18/12 17:44	10/29/12 20:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2050-68-2	PCB Congener # 15	14	U, B-2	ng/kg	14	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-78-9	PCB Congener # 16	18		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
37680-66-3	PCB Congener # 17	160		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-73-4	PCB Congener # 19	9.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	130		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-85-8	PCB Congener # 22	44		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	14		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-76-7	PCB Congener # 27	35		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
16606-02-3	PCB Congener # 31	64		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-77-8	PCB Congener # 32	24		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-90-5	PCB Congener # 37	12	U, B-2	ng/kg	12	10/18/12 17:44	10/29/12 20:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	67		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
36559-22-5	PCB Congener # 42	210		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-46-8	PCB Congener # 43	11		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	460		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	27		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-47-9	PCB Congener # 48	58		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	400		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	89		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
35693-99-3	PCB Congener # 52	640		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-43-1	PCB Congener # 56	41		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	36		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33025-41-1	PCB Congener # 60	41		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	360		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74472-34-7	PCB Congener # 63	20		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-58-8	PCB Congener # 64	170		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32598-10-0	PCB Congener # 66	550		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-52-7	PCB Congener # 68	14		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	11		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32598-13-3	PCB Congener # 77	22		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	980		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-60-2	PCB Congener # 84	17		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	170		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	420		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	990		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-61-3	PCB Congener # 92	180		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	490		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32598-14-4	PCB Congener #105	270		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70424-68-9	PCB Congener #107	82		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	19		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	740		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	15		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
31508-00-6	PCB Congener #118	1500		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
68194-12-7	PCB Congener #120	17		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
65510-44-3	PCB Congener #123	29		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1500		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-66-8	PCB Congener #130	51		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	340		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52712-04-6	PCB Congener #141	65		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
51908-16-8	PCB Congener #146	320		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	840		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2700		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	21		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	120		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74472-42-7	PCB Congener #158	85		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-45-0	PCB Congener #164	51		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-72-6	PCB Congener #167	120		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35065-30-6	PCB Congener #170	93		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
38411-25-5	PCB Congener #174	59		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-70-4	PCB Congener #177	83		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-67-9	PCB Congener #178	68		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-64-6	PCB Congener #179	50		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	530		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	170		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-68-0	PCB Congener #187	490		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
41411-64-7	PCB Congener #190	51		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
2136-99-4	PCB Congener #202	110		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-76-0	PCB Congener #203	250		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
40186-72-9	PCB Congener #206	110	B-2	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-77-1	PCB Congener #208	73		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
2051-24-3	PCB Congener #209	88	J, Q-2	ng/kg	100	10/18/12 17:44	11/01/12 3:23	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.3		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
13029-08-8	PCB Congener # 4	82		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
34883-43-7	PCB Congener # 8	69		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2050-68-2	PCB Congener # 15	40		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
37680-66-3	PCB Congener # 17	360		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	170		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-73-4	PCB Congener # 19	69		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	450		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-76-7	PCB Congener # 27	120		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
16606-02-3	PCB Congener # 31	190		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-77-8	PCB Congener # 32	160		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	190		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
36559-22-5	PCB Congener # 42	290		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-46-8	PCB Congener # 43	23		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1300		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-47-5	PCB Congener # 46	14		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-47-9	PCB Congener # 48	85		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	940		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	170		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
35693-99-3	PCB Congener # 52	940		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
15968-05-5	PCB Congener # 54	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-43-1	PCB Congener # 56	65		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70424-67-8	PCB Congener # 57	16		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33025-41-1	PCB Congener # 60	97		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	720		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74472-34-7	PCB Congener # 63	49		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-58-8	PCB Congener # 64	410		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32598-10-0	PCB Congener # 66	1100		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-53-8	PCB Congener # 67	10		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-52-7	PCB Congener # 68	33		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	23		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32598-13-3	PCB Congener # 77	17		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-48-6	PCB Congener # 79	10		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-62-4	PCB Congener # 82	69		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2200		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-60-2	PCB Congener # 84	130		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	410		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	920		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	280		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1700		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-61-3	PCB Congener # 92	450		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	640		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
60145-21-3	PCB Congener #103	38		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32598-14-4	PCB Congener #105	590		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70424-68-9	PCB Congener #107	170		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	23		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1900		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	36		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
31508-00-6	PCB Congener #118	1800		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
68194-12-7	PCB Congener #120	31		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
65510-44-3	PCB Congener #123	47		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	460		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3300		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-66-8	PCB Congener #130	180		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38380-05-1	PCB Congener #132	330		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35694-04-3	PCB Congener #133	86		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	55		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	910		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35694-06-5	PCB Congener #137	100		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	61		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
68194-14-9	PCB Congener #144	56		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
51908-16-8	PCB Congener #146	710		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1800		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4200		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	68		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	230		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74472-42-7	PCB Congener #158	240		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-45-0	PCB Congener #164	150		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-72-6	PCB Congener #167	150		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35065-30-6	PCB Congener #170	360		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	150		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-74-8	PCB Congener #172	63		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38411-25-5	PCB Congener #174	210		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-70-4	PCB Congener #177	320		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-67-9	PCB Congener #178	240		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-64-6	PCB Congener #179	160		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	930		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	460		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-48-3	PCB Congener #184	73		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-68-0	PCB Congener #187	1400		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
39635-31-9	PCB Congener #189	15	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
41411-64-7	PCB Congener #190	130		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35694-08-7	PCB Congener #194	90		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-78-2	PCB Congener #195	80		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	390		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
2136-99-4	PCB Congener #202	320		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-76-0	PCB Congener #203	440		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-53-0	PCB Congener #205	15	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
40186-72-9	PCB Congener #206	360		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-77-1	PCB Congener #208	190		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
2051-24-3	PCB Congener #209	230		ng/kg	100	10/18/12 17:44	11/01/12 4:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.5		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
13029-08-8	PCB Congener # 4	47		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
34883-43-7	PCB Congener # 8	20	U, B-5	ng/kg	20	10/18/12 17:44	10/29/12 22:08	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2050-68-2	PCB Congener # 15	13	U, B-2	ng/kg	13	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-78-9	PCB Congener # 16	37		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
37680-66-3	PCB Congener # 17	230		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-73-4	PCB Congener # 19	28		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	200		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-85-8	PCB Congener # 22	43		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
55712-37-3	PCB Congener # 25	12		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	13		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-76-7	PCB Congener # 27	48		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
16606-02-3	PCB Congener # 31	68		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-77-8	PCB Congener # 32	34		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	97		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
36559-22-5	PCB Congener # 42	240		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	770		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	50		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-47-9	PCB Congener # 48	61		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	540		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	77		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
35693-99-3	PCB Congener # 52	510		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	53		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33025-41-1	PCB Congener # 60	61		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	420		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74472-34-7	PCB Congener # 63	26		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
52663-58-8	PCB Congener # 64	200		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32598-10-0	PCB Congener # 66	740		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
73575-52-7	PCB Congener # 68	19		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32598-13-3	PCB Congener # 77	14		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-50-4	PCB Congener # 81	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-62-4	PCB Congener # 82	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1400		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-60-2	PCB Congener # 84	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	270		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	530		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	160		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
73575-57-2	PCB Congener # 89	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1300		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-61-3	PCB Congener # 92	260		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	410		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
73575-55-0	PCB Congener # 94	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
73575-54-9	PCB Congener # 96	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
60145-21-3	PCB Congener #103	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32598-14-4	PCB Congener #105	380		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70424-69-0	PCB Congener #106	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	940		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-32-0	PCB Congener #111	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-36-9	PCB Congener #112	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	23		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
31508-00-6	PCB Congener #118	1500		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
68194-12-7	PCB Congener #120	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
56558-18-0	PCB Congener #121	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
76842-07-4	PCB Congener #122	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
65510-44-3	PCB Congener #123	34		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
57465-28-8	PCB Congener #126	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-33-1	PCB Congener #127	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	250		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2100		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-66-8	PCB Congener #130	80		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
38380-05-1	PCB Congener #132	71		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	460		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35694-06-5	PCB Congener #137	57		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52712-04-6	PCB Congener #141	77		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
51908-16-8	PCB Congener #146	420		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	870		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3100		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	34		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	160		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74472-42-7	PCB Congener #158	150		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-45-0	PCB Congener #164	81		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-72-6	PCB Congener #167	120		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
38411-25-5	PCB Congener #174	100		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-67-9	PCB Congener #178	190		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-64-6	PCB Congener #179	110		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	810		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	360		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-68-0	PCB Congener #187	950		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
41411-64-7	PCB Congener #190	88		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35694-08-7	PCB Congener #194	56		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-78-2	PCB Congener #195	53		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	180		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
40186-71-8	PCB Congener #201	52		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
2136-99-4	PCB Congener #202	230		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-76-0	PCB Congener #203	390		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
40186-72-9	PCB Congener #206	200		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-77-1	PCB Congener #208	110		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
2051-24-3	PCB Congener #209	150		ng/kg	100	10/18/12 17:44	11/01/12 5:30	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.9		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	711.20		pg/L	2000.0		35.6	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	712.60		"	2000.0		35.6	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	886.00		"	2000.0		44.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	840.00		"	2000.0		42.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	773.80		"	2000.0		38.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1198.8		"	2000.0		59.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1209.8		"	2000.0		60.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1443.2		"	2000.0		72.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1179.2		"	2000.0		59.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1006.4		"	2000.0		50.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1092.2		"	2000.0		54.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1116.8		"	2000.0		55.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1146.0		"	2000.0		57.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1143.6		"	2000.0		57.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1159.0		"	2000.0		58.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1173.4		"	2000.0		58.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2464.8		"	4000.0		61.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1240.0		"	2000.0		62.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1292.6		"	2000.0		64.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1277.4		"	2000.0		63.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1268.8		"	2000.0		63.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	1373.4		"	2000.0		68.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1188.4		"	2000.0		59.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1419.4		"	2000.0		71.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1206.4		"	2000.0		60.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	950.60		"	2000.0		47.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1283.8		"	1960.0		65.5	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1367.4		"	1940.0		70.5	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1414.8		"	1820.0		77.7	30-135			
PCB Congener # 1	U	100	"							U
PCB Congener # 2	U	100	"							U
PCB Congener # 3	U	100	"							U
PCB Congener # 4	26	100	"							B-3, Q-2, J
PCB Congener # 5	U	100	"							U
PCB Congener # 6	U	100	"							U
PCB Congener # 7	U	100	"							U
PCB Congener # 8	U	100	"							U
PCB Congener # 9	U	100	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 10	U	100	pg/L							U
PCB Congener # 11	U	100	"							U
PCB Congener # 12 and/or 13	U	100	"							U
PCB Congener # 14	U	100	"							U
PCB Congener # 15	57	100	"							B-3, Q-2, J
PCB Congener # 16	U	100	"							U
PCB Congener # 17	U	100	"							U
PCB Congener # 18 and/or 30	U	100	"							U
PCB Congener # 19	U	100	"							U
PCB Congener # 20 and/or 28	U	100	"							U
PCB Congener # 21 and/or 33	U	100	"							U
PCB Congener # 22	U	100	"							U
PCB Congener # 23	U	100	"							U
PCB Congener # 24	U	100	"							U
PCB Congener # 25	U	100	"							U
PCB Congener # 26 and/or 29	U	100	"							U
PCB Congener # 27	U	100	"							U
PCB Congener # 31	U	100	"							U
PCB Congener # 32	U	100	"							U
PCB Congener # 34	U	100	"							U
PCB Congener # 35	U	100	"							U
PCB Congener # 36	U	100	"							U
PCB Congener # 37	34	100	"							B-3, Q-2, J
PCB Congener # 38	U	100	"							U
PCB Congener # 39	U	100	"							U
PCB Congener # 40 and/or 41,71	U	100	"							U
PCB Congener # 42	U	100	"							U
PCB Congener # 43	U	100	"							U
PCB Congener # 44 and/or 47,65	U	100	"							U
PCB Congener # 45 and/or 51	U	100	"							U
PCB Congener # 46	U	100	"							U
PCB Congener # 48	U	100	"							U
PCB Congener # 49 and/or 69	U	100	"							U
PCB Congener # 50 and/or 53	U	100	"							U
PCB Congener # 52	U	100	"							U
PCB Congener # 54	U	100	"							U
PCB Congener # 55	U	100	"							U
PCB Congener # 56	U	100	"							U
PCB Congener # 57	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 58	U	100	pg/L							U
PCB Congener # 59 and/or 62,75	U	100	"							U
PCB Congener # 60	U	100	"							U
PCB Congener # 61 and/or 70,74,76	U	100	"							U
PCB Congener # 63	U	100	"							U
PCB Congener # 64	U	100	"							U
PCB Congener # 66	U	100	"							U
PCB Congener # 67	U	100	"							U
PCB Congener # 68	U	100	"							U
PCB Congener # 72	U	100	"							U
PCB Congener # 73	U	100	"							U
PCB Congener # 77	U	100	"							U
PCB Congener # 78	U	100	"							U
PCB Congener # 79	U	100	"							U
PCB Congener # 80	U	100	"							U
PCB Congener # 81	U	100	"							U
PCB Congener # 82	U	100	"							U
PCB Congener # 83 and/or 99	U	100	"							U
PCB Congener # 84	U	100	"							U
PCB Congener # 85 and/or 116,117	U	100	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	100	"							U
PCB Congener # 88 and/or 91	U	100	"							U
PCB Congener # 89	U	100	"							U
PCB Congener # 90 and/or 101,113	U	100	"							U
PCB Congener # 92	U	100	"							U
PCB Congener # 93 and/or 95,98,100,102	U	100	"							U
PCB Congener # 94	U	100	"							U
PCB Congener # 96	U	100	"							U
PCB Congener #103	U	100	"							U
PCB Congener #104	U	100	"							U
PCB Congener #105	17	100	"							B-3, Q-2, J
PCB Congener #106	U	100	"							U
PCB Congener #107	U	100	"							U
PCB Congener #108 and/or 124	U	100	"							U
PCB Congener #110 and/or 115	U	100	"							U
PCB Congener #111	U	100	"							U
PCB Congener #112	U	100	"							U
PCB Congener #114	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #118	24	100	pg/L							B-3, Q-2, J
PCB Congener #120	U	100	"							U
PCB Congener #121	U	100	"							U
PCB Congener #122	U	100	"							U
PCB Congener #123	U	100	"							U
PCB Congener #126	U	100	"							U
PCB Congener #127	U	100	"							U
PCB Congener #128 and/or 166	U	100	"							U
PCB Congener #129 and/or 138,160,163	U	100	"							U
PCB Congener #130	U	100	"							U
PCB Congener #131	U	100	"							U
PCB Congener #132	U	100	"							U
PCB Congener #133	U	100	"							U
PCB Congener #134 and/or 143	U	100	"							U
PCB Congener #135 and/or 151,154	U	100	"							U
PCB Congener #136	U	100	"							U
PCB Congener #137	U	100	"							U
PCB Congener #139 and/or 140	U	100	"							U
PCB Congener #141	U	100	"							U
PCB Congener #142	U	100	"							U
PCB Congener #144	U	100	"							U
PCB Congener #145	U	100	"							U
PCB Congener #146	U	100	"							U
PCB Congener #147 and/or 149	U	100	"							U
PCB Congener #148	U	100	"							U
PCB Congener #150	U	100	"							U
PCB Congener #152	U	100	"							U
PCB Congener #153 and/or 168	U	100	"							U
PCB Congener #155	U	100	"							U
PCB Congener #156 and/or 157	U	100	"							U
PCB Congener #158	U	100	"							U
PCB Congener #159	U	100	"							U
PCB Congener #161	U	100	"							U
PCB Congener #162	U	100	"							U
PCB Congener #164	U	100	"							U
PCB Congener #165	U	100	"							U
PCB Congener #167	U	100	"							U
PCB Congener #169	U	100	"							U
PCB Congener #170	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #171 and/or 173	U	100	pg/L							U
PCB Congener #172	U	100	"							U
PCB Congener #174	U	100	"							U
PCB Congener #175	U	100	"							U
PCB Congener #176	U	100	"							U
PCB Congener #177	U	100	"							U
PCB Congener #178	U	100	"							U
PCB Congener #179	U	100	"							U
PCB Congener #180 and/or 193	U	100	"							U
PCB Congener #181	U	100	"							U
PCB Congener #182	U	100	"							U
PCB Congener #183 and/or 185	U	100	"							U
PCB Congener #184	U	100	"							U
PCB Congener #186	U	100	"							U
PCB Congener #187	U	100	"							U
PCB Congener #188	U	100	"							U
PCB Congener #189	U	100	"							U
PCB Congener #190	U	100	"							U
PCB Congener #191	U	100	"							U
PCB Congener #192	U	100	"							U
PCB Congener #194	U	100	"							U
PCB Congener #195	U	100	"							U
PCB Congener #196	U	100	"							U
PCB Congener #197 and/or 200	U	100	"							U
PCB Congener #198 and/or 199	U	100	"							U
PCB Congener #201	U	100	"							U
PCB Congener #202	29	100	"							B-3, Q-2, J
PCB Congener #203	U	100	"							U
PCB Congener #204	U	100	"							U
PCB Congener #205	U	100	"							U
PCB Congener #206	140	100	"							B-4
PCB Congener #207	U	100	"							U
PCB Congener #208	U	100	"							U
PCB Congener #209	U	500	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

LCS (1210112-BS1)

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	529.20		pg/L	2000.0		26.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	563.00		"	2000.0		28.2	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	608.40		"	2000.0		30.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	817.60		"	2000.0		40.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	700.20		"	2000.0		35.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1046.6		"	2000.0		52.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	902.40		"	2000.0		45.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1187.6		"	2000.0		59.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	934.20		"	2000.0		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	864.20		"	2000.0		43.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	940.00		"	2000.0		47.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	987.80		"	2000.0		49.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	909.40		"	2000.0		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	951.40		"	2000.0		47.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	977.20		"	2000.0		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1056.4		"	2000.0		52.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2366.6		"	4000.0		59.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1181.4		"	2000.0		59.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1222.2		"	2000.0		61.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1048.4		"	2000.0		52.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1217.0		"	2000.0		60.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	884.60		"	2000.0		44.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	845.80		"	2000.0		42.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1059.2		"	2000.0		53.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	865.80		"	2000.0		43.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	681.20		"	2000.0		34.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1031.4		"	1960.0		52.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1007.0		"	1940.0		51.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1130.6		"	1820.0		62.1	40-125			
PCB Congener # 1	1100	100	"	1000.0		107	50-150			
PCB Congener # 3	1100	100	"	1000.0		109	50-150			
PCB Congener # 4	920	100	"	1000.0		91.8	50-150			
PCB Congener # 15	1200	100	"	1000.0		122	50-150			
PCB Congener # 19	970	100	"	1000.0		96.9	50-150			
PCB Congener # 37	980	100	"	1000.0		98.1	50-150			
PCB Congener # 54	890	100	"	1000.0		89.2	50-150			
PCB Congener # 77	1100	100	"	1000.0		110	50-150			
PCB Congener # 81	1100	100	"	1000.0		112	50-150			



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**LCS (1210112-BS1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #104	880	100	pg/L	1000.0		87.6	50-150			
PCB Congener #105	1100	100	"	1000.0		110	50-150			
PCB Congener #114	1000	100	"	1000.0		101	50-150			
PCB Congener #118	1100	100	"	1000.0		115	50-150			
PCB Congener #123	1000	100	"	1000.0		102	50-150			
PCB Congener #126	990	100	"	1000.0		98.9	50-150			
PCB Congener #155	830	100	"	1000.0		82.5	50-150			
PCB Congener #156 and/or 157	2200	100	"	2000.0		109	50-150			
PCB Congener #167	1100	100	"	1000.0		107	50-150			
PCB Congener #169	1000	100	"	1000.0		105	50-150			
PCB Congener #188	900	100	"	1000.0		90.2	50-150			
PCB Congener #189	1100	100	"	1000.0		106	50-150			
PCB Congener #202	1100	100	"	1000.0		106	50-150			
PCB Congener #205	1100	100	"	1000.0		113	50-150			
PCB Congener #206	1400	100	"	1000.0		136	50-150			
PCB Congener #208	1200	100	"	1000.0		115	50-150			
PCB Congener #209	1800	500	"	1000.0		180	50-150			QL-2

**Duplicate (1210112-DUP1)**

Source: E124007-01

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	417.80		pg/L	2000.0		20.9	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	488.40		"	2000.0		24.4	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	504.60		"	2000.0		25.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	799.00		"	2000.0		40.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	613.40		"	2000.0		30.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1070.2		"	2000.0		53.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1003.8		"	2000.0		50.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1266.2		"	2000.0		63.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1019.6		"	2000.0		51.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	834.20		"	2000.0		41.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1024.6		"	2000.0		51.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1023.0		"	2000.0		51.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	951.20		"	2000.0		47.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1071.2		"	2000.0		53.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	973.20		"	2000.0		48.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	839.80		"	2000.0		42.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2010.4		"	4000.0		50.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	968.00		"	2000.0		48.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1025.2		"	2000.0		51.3	25-150			



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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	737.80		pg/L	2000.0		36.9	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	806.00		"	2000.0		40.3	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	633.40		"	2000.0		31.7	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	570.60		"	2000.0		28.5	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	651.80		"	2000.0		32.6	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	539.80		"	2000.0		27.0	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	478.40		"	2000.0		23.9	25-150			QI-1
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	1156.4		"	1960.0		59.0	30-135			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	1220.6		"	1940.0		62.9	30-135			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	1115.0		"	1820.0		61.3	30-135			
PCB Congener # 1	U	100	"		U				30	U
PCB Congener # 2	U	100	"		U				30	U
PCB Congener # 3	U	100	"		U				30	U
PCB Congener # 4	U	100	"		U				30	U
PCB Congener # 5	U	100	"		U				30	U
PCB Congener # 6	U	100	"		U				30	U
PCB Congener # 7	U	100	"		U				30	U
PCB Congener # 8	U	100	"		U				30	U
PCB Congener # 9	U	100	"		U				30	U
PCB Congener # 10	U	100	"		U				30	U
PCB Congener # 11	U	100	"		U				30	U
PCB Congener # 12 and/or 13	U	100	"		U				30	U
PCB Congener # 14	U	100	"		U				30	U
PCB Congener # 15	U	100	"		U				30	U
PCB Congener # 16	U	100	"		U				30	U
PCB Congener # 17	U	100	"		U				30	U
PCB Congener # 18 and/or 30	U	100	"		U				30	U
PCB Congener # 19	U	100	"		U				30	U
PCB Congener # 20 and/or 28	U	100	"		U				30	U
PCB Congener # 21 and/or 33	U	100	"		U				30	U
PCB Congener # 22	U	100	"		U				30	U
PCB Congener # 23	U	100	"		U				30	U
PCB Congener # 24	U	100	"		U				30	U
PCB Congener # 25	U	100	"		U				30	U
PCB Congener # 26 and/or 29	U	100	"		U				30	U
PCB Congener # 27	U	100	"		U				30	U
PCB Congener # 31	U	100	"		U				30	U
PCB Congener # 32	U	100	"		U				30	U
PCB Congener # 34	U	100	"		U				30	U
PCB Congener # 35	U	100	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 36	U	100	pg/L		U			30		U
PCB Congener # 37	U	100	"		U			30		U
PCB Congener # 38	U	100	"		U			30		U
PCB Congener # 39	U	100	"		U			30		U
PCB Congener # 40 and/or 41,71	U	100	"		U			30		U
PCB Congener # 42	U	100	"		U			30		U
PCB Congener # 43	U	100	"		U			30		U
PCB Congener # 44 and/or 47,65	U	100	"		U			30		U
PCB Congener # 45 and/or 51	U	100	"		U			30		U
PCB Congener # 46	U	100	"		U			30		U
PCB Congener # 48	U	100	"		U			30		U
PCB Congener # 49 and/or 69	U	100	"		U			30		U
PCB Congener # 50 and/or 53	U	100	"		U			30		U
PCB Congener # 52	U	100	"		U			30		U
PCB Congener # 54	U	100	"		U			30		U
PCB Congener # 55	U	100	"		U			30		U
PCB Congener # 56	U	100	"		U			30		U
PCB Congener # 57	U	100	"		U			30		U
PCB Congener # 58	U	100	"		U			30		U
PCB Congener # 59 and/or 62,75	U	100	"		U			30		U
PCB Congener # 60	U	100	"		U			30		U
PCB Congener # 61 and/or 70,74,76	U	100	"		U			30		U
PCB Congener # 63	U	100	"		U			30		U
PCB Congener # 64	U	100	"		U			30		U
PCB Congener # 66	U	100	"		U			30		U
PCB Congener # 67	U	100	"		U			30		U
PCB Congener # 68	U	100	"		U			30		U
PCB Congener # 72	U	100	"		U			30		U
PCB Congener # 73	U	100	"		U			30		U
PCB Congener # 77	U	100	"		U			30		U
PCB Congener # 78	U	100	"		U			30		U
PCB Congener # 79	U	100	"		U			30		U
PCB Congener # 80	U	100	"		U			30		U
PCB Congener # 81	U	100	"		U			30		U
PCB Congener # 82	U	100	"		U			30		U
PCB Congener # 83 and/or 99	U	100	"		U			30		U
PCB Congener # 84	U	100	"		U			30		U
PCB Congener # 85 and/or 116,117	U	100	"		U			30		U
PCB Congener # 86 and/or 87,97,109,119,125	U	100	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 88 and/or 91	U	100	pg/L		U			30		U
PCB Congener # 89	U	100	"		U			30		U
PCB Congener # 90 and/or 101,113	U	100	"		U			30		U
PCB Congener # 92	U	100	"		U			30		U
PCB Congener # 93 and/or 95,98,100,102	U	100	"		U			30		U
PCB Congener # 94	U	100	"		U			30		U
PCB Congener # 96	U	100	"		U			30		U
PCB Congener #103	U	100	"		U			30		U
PCB Congener #104	U	100	"		U			30		U
PCB Congener #105	U	100	"		U			30		U
PCB Congener #106	U	100	"		U			30		U
PCB Congener #107	U	100	"		U			30		U
PCB Congener #108 and/or 124	U	100	"		U			30		U
PCB Congener #110 and/or 115	U	100	"		U			30		U
PCB Congener #111	U	100	"		U			30		U
PCB Congener #112	U	100	"		U			30		U
PCB Congener #114	U	100	"		U			30		U
PCB Congener #118	U	100	"		U			30		U
PCB Congener #120	U	100	"		U			30		U
PCB Congener #121	U	100	"		U			30		U
PCB Congener #122	U	100	"		U			30		U
PCB Congener #123	U	100	"		U			30		U
PCB Congener #126	U	100	"		U			30		U
PCB Congener #127	U	100	"		U			30		U
PCB Congener #128 and/or 166	U	100	"		U			30		U
PCB Congener #129 and/or 138,160,163	U	100	"		U			30		U
PCB Congener #130	U	100	"		U			30		U
PCB Congener #131	U	100	"		U			30		U
PCB Congener #132	U	100	"		U			30		U
PCB Congener #133	U	100	"		U			30		U
PCB Congener #134 and/or 143	U	100	"		U			30		U
PCB Congener #135 and/or 151,154	U	100	"		U			30		U
PCB Congener #136	U	100	"		U			30		U
PCB Congener #137	U	100	"		U			30		U
PCB Congener #139 and/or 140	U	100	"		U			30		U
PCB Congener #141	U	100	"		U			30		U
PCB Congener #142	U	100	"		U			30		U
PCB Congener #144	U	100	"		U			30		U
PCB Congener #145	U	100	"		U			30		U
PCB Congener #146	U	100	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #147 and/or 149	U	100	pg/L		U			30		U
PCB Congener #148	U	100	"		U			30		U
PCB Congener #150	U	100	"		U			30		U
PCB Congener #152	U	100	"		U			30		U
PCB Congener #153 and/or 168	U	100	"		U			30		U
PCB Congener #155	U	100	"		U			30		U
PCB Congener #156 and/or 157	U	100	"		U			30		U
PCB Congener #158	U	100	"		U			30		U
PCB Congener #159	U	100	"		U			30		U
PCB Congener #161	U	100	"		U			30		U
PCB Congener #162	U	100	"		U			30		U
PCB Congener #164	U	100	"		U			30		U
PCB Congener #165	U	100	"		U			30		U
PCB Congener #167	U	100	"		U			30		U
PCB Congener #169	U	100	"		U			30		U
PCB Congener #170	U	100	"		U			30		U
PCB Congener #171 and/or 173	U	100	"		U			30		U
PCB Congener #172	U	100	"		U			30		U
PCB Congener #174	U	100	"		U			30		U
PCB Congener #175	U	100	"		U			30		U
PCB Congener #176	U	100	"		U			30		U
PCB Congener #177	U	100	"		U			30		U
PCB Congener #178	U	100	"		U			30		U
PCB Congener #179	U	100	"		U			30		U
PCB Congener #180 and/or 193	U	100	"		U			30		U
PCB Congener #181	U	100	"		U			30		U
PCB Congener #182	U	100	"		U			30		U
PCB Congener #183 and/or 185	U	100	"		U			30		U
PCB Congener #184	U	100	"		U			30		U
PCB Congener #186	U	100	"		U			30		U
PCB Congener #187	U	100	"		U			30		U
PCB Congener #188	U	100	"		U			30		U
PCB Congener #189	U	100	"		U			30		U
PCB Congener #190	U	100	"		U			30		U
PCB Congener #191	U	100	"		U			30		U
PCB Congener #192	U	100	"		U			30		U
PCB Congener #194	U	100	"		U			30		U
PCB Congener #195	U	100	"		U			30		U
PCB Congener #196	U	100	"		U			30		U
PCB Congener #197 and/or 200	U	100	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #198 and/or 199	U	100	pg/L		U			30		U
PCB Congener #201	U	100	"		U			30		U
PCB Congener #202	U	100	"		U			30		U
PCB Congener #203	U	100	"		U			30		U
PCB Congener #204	U	100	"		U			30		U
PCB Congener #205	U	100	"		U			30		U
PCB Congener #206	U	170	"		U			30		B-2, U
PCB Congener #207	U	100	"		U			30		U
PCB Congener #208	U	100	"		U			30		U
PCB Congener #209	U	500	"		U			30		J, QI-1, U

**MRL Verification (1210112-PS1)**

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	489.60		pg/L	2000.0		24.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	579.40		"	2000.0		29.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	611.20		"	2000.0		30.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	842.00		"	2000.0		42.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	659.60		"	2000.0		33.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1165.2		"	2000.0		58.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1021.0		"	2000.0		51.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1447.8		"	2000.0		72.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1195.4		"	2000.0		59.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1039.4		"	2000.0		52.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1007.2		"	2000.0		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1116.4		"	2000.0		55.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1034.0		"	2000.0		51.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1208.6		"	2000.0		60.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1224.6		"	2000.0		61.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	934.60		"	2000.0		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2987.0		"	4000.0		74.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1455.0		"	2000.0		72.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1688.8		"	2000.0		84.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	937.80		"	2000.0		46.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1190.6		"	2000.0		59.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	956.60		"	2000.0		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	927.20		"	2000.0		46.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1120.6		"	2000.0		56.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	883.80		"	2000.0		44.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	732.80		"	2000.0		36.6	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**MRL Verification (1210112-PS1)**

Prepared: 10/17/12 Analyzed: 11/01/12

Surrogate: <sup>13</sup> C PCB Congener # 28L	1188.6		pg/L	1960.0		60.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1328.6		"	1940.0		68.5	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1408.4		"	1820.0		77.4	40-125			
PCB Congener # 1	120	100	"	100.00		118	30-170			MRL-2
PCB Congener # 3	110	100	"	100.00		110	30-170			MRL-2
PCB Congener # 4	130	100	"	100.00		134	30-170			MRL-2
PCB Congener # 15	170	100	"	100.00		167	30-170			MRL-2
PCB Congener # 19	86	100	"	100.00		85.8	30-170			MRL-2, Q-2, J
PCB Congener # 37	120	100	"	100.00		115	30-170			MRL-2
PCB Congener # 54	110	100	"	100.00		106	30-170			MRL-2
PCB Congener # 77	110	100	"	100.00		108	30-170			MRL-2
PCB Congener # 81	120	100	"	100.00		115	30-170			MRL-2
PCB Congener #104	94	100	"	100.00		93.8	30-170			MRL-2, Q-2, J
PCB Congener #105	120	100	"	100.00		119	30-170			MRL-2
PCB Congener #114	87	100	"	100.00		87.4	30-170			MRL-2, Q-2, J
PCB Congener #118	130	100	"	100.00		132	30-170			MRL-2
PCB Congener #123	110	100	"	100.00		111	30-170			MRL-2
PCB Congener #126	100	100	"	100.00		101	30-170			MRL-2
PCB Congener #155	90	100	"	100.00		89.8	30-170			MRL-2, Q-2, J
PCB Congener #156 and/or 157	240	100	"	200.00		118	30-170			MRL-2
PCB Congener #167	100	100	"	100.00		104	30-170			MRL-2
PCB Congener #169	100	100	"	100.00		99.8	30-170			MRL-2, Q-2
PCB Congener #188	88	100	"	100.00		88.0	30-170			MRL-2, Q-2, J
PCB Congener #189	120	100	"	100.00		122	30-170			MRL-2
PCB Congener #202	150	100	"	100.00		147	30-170			MRL-2
PCB Congener #205	110	100	"	100.00		109	30-170			MRL-2
PCB Congener #206	440	100	"	100.00		445	30-170			MRL-2, QR-2
PCB Congener #208	200	100	"	100.00		204	30-170			MRL-2, QR-2
PCB Congener #209	970	500	"	500.00		195	30-170			MRL-2, QR-2





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	86.700		ng/kg	200.00		43.4	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	90.340		"	200.00		45.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	109.24		"	200.00		54.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	101.02		"	200.00		50.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	106.26		"	200.00		53.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	116.38		"	200.00		58.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	143.54		"	200.00		71.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	117.00		"	200.00		58.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	82.820		"	200.00		41.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	139.78		"	200.00		69.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	107.68		"	200.00		53.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	104.56		"	200.00		52.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	108.28		"	200.00		54.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	107.48		"	200.00		53.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	67.540		"	200.00		33.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	128.50		"	200.00		64.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	201.60		"	400.00		50.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	108.50		"	200.00		54.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	52.360		"	200.00		26.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	265.62		"	200.00		133	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	120.20		"	200.00		60.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	294.44		"	200.00		147	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	68.720		"	200.00		34.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	232.66		"	200.00		116	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	112.68		"	200.00		56.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	225.84		"	200.00		113	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	203.10		"	196.00		104	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	146.04		"	194.00		75.3	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	167.66		"	182.00		92.1	30-135			
PCB Congener # 1	1.7	10	"							B-3, Q-2, J
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	4.2	10	"							B-4, Q-2, J
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	12	10	"							B-4
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	2.6	10	"							B-4, Q-2, J
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	11	10	"							B-4
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	16	10	"							B-4
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 58	U	10	ng/kg							U
PCB Congener # 59 and/or 62,75	U	10	"							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	14	10	"							B-4
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	13	10	"							B-4
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	4.6	10	"							B-4, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	12	10	"							B-4
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	11	10	"							B-3



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	10	"							U
PCB Congener #129 and/or 138,160,163	17	10	"							B-4
PCB Congener #130	U	10	"							U
PCB Congener #131	U	10	"							U
PCB Congener #132	U	10	"							U
PCB Congener #133	U	10	"							U
PCB Congener #134 and/or 143	U	10	"							U
PCB Congener #135 and/or 151,154	U	10	"							U
PCB Congener #136	U	10	"							U
PCB Congener #137	U	10	"							U
PCB Congener #139 and/or 140	U	10	"							U
PCB Congener #141	U	10	"							U
PCB Congener #142	U	10	"							U
PCB Congener #144	U	10	"							U
PCB Congener #145	U	10	"							U
PCB Congener #146	U	10	"							U
PCB Congener #147 and/or 149	U	10	"							U
PCB Congener #148	U	10	"							U
PCB Congener #150	U	10	"							U
PCB Congener #152	U	10	"							U
PCB Congener #153 and/or 168	17	10	"							B-4
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	10	"							U
PCB Congener #159	U	10	"							U
PCB Congener #161	U	10	"							U
PCB Congener #162	U	10	"							U
PCB Congener #164	U	10	"							U
PCB Congener #165	U	10	"							U
PCB Congener #167	0.98	10	"							B-3, Q-2, J
PCB Congener #169	U	10	"							U
PCB Congener #170	U	10	"							U
PCB Congener #171 and/or 173	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener #172	U	10	ng/kg							U
PCB Congener #174	U	10	"							U
PCB Congener #175	U	10	"							U
PCB Congener #176	U	10	"							U
PCB Congener #177	U	10	"							U
PCB Congener #178	U	10	"							U
PCB Congener #179	U	10	"							U
PCB Congener #180 and/or 193	U	10	"							U
PCB Congener #181	U	10	"							U
PCB Congener #182	U	10	"							U
PCB Congener #183 and/or 185	U	10	"							U
PCB Congener #184	U	10	"							U
PCB Congener #186	U	10	"							U
PCB Congener #187	U	10	"							U
PCB Congener #188	U	10	"							U
PCB Congener #189	U	10	"							U
PCB Congener #190	U	10	"							U
PCB Congener #191	U	10	"							U
PCB Congener #192	U	10	"							U
PCB Congener #194	U	10	"							U
PCB Congener #195	U	10	"							U
PCB Congener #196	U	10	"							U
PCB Congener #197 and/or 200	U	10	"							U
PCB Congener #198 and/or 199	U	10	"							U
PCB Congener #201	U	10	"							U
PCB Congener #202	2.9	10	"							B-3, Q-2, J
PCB Congener #203	U	10	"							U
PCB Congener #204	U	10	"							U
PCB Congener #205	U	10	"							U
PCB Congener #206	24	10	"							B-4
PCB Congener #207	U	10	"							U
PCB Congener #208	8.7	10	"							B-3, Q-2, J
PCB Congener #209	6.0	20	"							B-3, Q-2, J



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**LCS (1210127-BS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	88.591		ng/kg	199.80		44.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	90.310		"	199.80		45.2	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	103.04		"	199.80		51.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	91.588		"	199.80		45.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	103.34		"	199.80		51.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	106.75		"	199.80		53.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	129.65		"	199.80		64.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	81.818		"	199.80		41.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	68.012		"	199.80		34.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	88.731		"	199.80		44.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	92.088		"	199.80		46.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	67.113		"	199.80		33.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	89.930		"	199.80		45.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	79.081		"	199.80		39.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	64.436		"	199.80		32.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	94.865		"	199.80		47.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	159.20		"	399.60		39.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	81.419		"	199.80		40.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	69.031		"	199.80		34.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	243.86		"	199.80		122	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	83.357		"	199.80		41.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	80.220		"	199.80		40.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	60.260		"	199.80		30.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	180.08		"	199.80		90.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	77.622		"	199.80		38.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	198.42		"	199.80		99.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	221.80		"	195.80		113	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	115.50		"	193.81		59.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	197.44		"	181.82		109	40-125			
PCB Congener # 1	110	10	"	99.900		111	50-150			
PCB Congener # 3	110	10	"	99.900		110	50-150			
PCB Congener # 4	100	10	"	99.900		101	50-150			
PCB Congener # 15	140	10	"	99.900		135	50-150			
PCB Congener # 19	90	10	"	99.900		90.5	50-150			
PCB Congener # 37	100	10	"	99.900		100	50-150			
PCB Congener # 54	90	10	"	99.900		90.6	50-150			
PCB Congener # 77	120	10	"	99.900		118	50-150			
PCB Congener # 81	110	10	"	99.900		106	50-150			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**LCS (1210127-BS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener #104	100	10	ng/kg	99.900	105	50-150
PCB Congener #105	110	10	"	99.900	110	50-150
PCB Congener #114	110	10	"	99.900	108	50-150
PCB Congener #118	120	10	"	99.900	119	50-150
PCB Congener #123	120	10	"	99.900	119	50-150
PCB Congener #126	79	50	"	99.900	79.2	50-150
PCB Congener #155	100	10	"	99.900	103	50-150
PCB Congener #156 and/or 157	230	10	"	199.80	114	50-150
PCB Congener #167	110	10	"	99.900	111	50-150
PCB Congener #169	79	50	"	99.900	78.8	50-150
PCB Congener #188	92	10	"	99.900	92.5	50-150
PCB Congener #189	120	10	"	99.900	118	50-150
PCB Congener #202	100	50	"	99.900	100	50-150
PCB Congener #205	120	10	"	99.900	118	50-150
PCB Congener #206	140	50	"	99.900	136	50-150
PCB Congener #208	110	10	"	99.900	106	50-150
PCB Congener #209	140	20	"	99.900	144	50-150

**Duplicate (1210127-DUP1)**

Source: E124007-07

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	94.206		ng/kg	199.80	47.2	15-150
Surrogate: <sup>13</sup> C PCB Congener # 3L	95.385		"	199.80	47.7	15-150
Surrogate: <sup>13</sup> C PCB Congener # 4L	121.34		"	199.80	60.7	25-150
Surrogate: <sup>13</sup> C PCB Congener # 15L	112.71		"	199.80	56.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 19L	102.20		"	199.80	51.2	25-150
Surrogate: <sup>13</sup> C PCB Congener # 37L	117.20		"	199.80	58.7	25-150
Surrogate: <sup>13</sup> C PCB Congener # 54L	171.35		"	199.80	85.8	25-150
Surrogate: <sup>13</sup> C PCB Congener # 77L	128.55		"	199.80	64.3	25-150
Surrogate: <sup>13</sup> C PCB Congener # 81L	80.919		"	199.80	40.5	25-150
Surrogate: <sup>13</sup> C PCB Congener # 104L	122.60		"	199.80	61.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 105L	99.201		"	199.80	49.6	25-150
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.62		"	199.80	50.9	25-150
Surrogate: <sup>13</sup> C PCB Congener # 118L	111.79		"	199.80	55.9	25-150
Surrogate: <sup>13</sup> C PCB Congener # 123L	106.73		"	199.80	53.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 126L	69.690		"	199.80	34.9	25-150
Surrogate: <sup>13</sup> C PCB Congener # 155L	122.30		"	199.80	61.2	25-150
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	212.47		"	399.60	53.2	25-150
Surrogate: <sup>13</sup> C PCB Congener # 167L	118.70		"	199.80	59.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 169L	88.412		"	199.80	44.2	25-150



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/30/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	168.33		ng/kg	199.80		84.3	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	127.17		"	199.80		63.6	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	161.04		"	199.80		80.6	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	85.714		"	199.80		42.9	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	177.92		"	199.80		89.1	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	131.87		"	199.80		66.0	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	147.85		"	199.80		74.0	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	173.77		"	195.80		88.7	30-135			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	139.22		"	193.81		71.8	30-135			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	155.48		"	181.82		85.5	30-135			
PCB Congener # 1	U	10	"		U				30	U
PCB Congener # 2	U	10	"		U				30	U
PCB Congener # 3	U	10	"		U				30	U
PCB Congener # 4	14	10	"		13			3.72	30	
PCB Congener # 5	U	10	"		U				30	U
PCB Congener # 6	U	10	"		U				30	U
PCB Congener # 7	U	10	"		U				30	U
PCB Congener # 8	U	10	"		U				30	U
PCB Congener # 9	U	10	"		U				30	U
PCB Congener # 10	U	10	"		U				30	U
PCB Congener # 11	U	10	"		U				30	U
PCB Congener # 12 and/or 13	U	10	"		U				30	U
PCB Congener # 14	U	10	"		U				30	U
PCB Congener # 15	U	14	"		U				30	B-2, U
PCB Congener # 16	10	10	"		U				30	
PCB Congener # 17	41	10	"		34			18.5	30	
PCB Congener # 18 and/or 30	U	34	"		U				30	B-5, U
PCB Congener # 19	9.4	10	"		8.5			10.0	30	J, Q-2
PCB Congener # 20 and/or 28	140	10	"		140			2.43	30	
PCB Congener # 21 and/or 33	10	10	"		U				30	
PCB Congener # 22	20	10	"		17			15.9	30	
PCB Congener # 23	U	10	"		U				30	U
PCB Congener # 24	U	10	"		U				30	U
PCB Congener # 25	U	10	"		U				30	U
PCB Congener # 26 and/or 29	13	10	"		13			4.65	30	
PCB Congener # 27	11	10	"		U				30	
PCB Congener # 31	70	10	"		70			0.856	30	
PCB Congener # 32	16	10	"		14			11.6	30	
PCB Congener # 34	U	10	"		U				30	U
PCB Congener # 35	U	10	"		U				30	U





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 36	U	10	ng/kg		U				30	U
PCB Congener # 37	12	10	"		U				30	
PCB Congener # 38	U	10	"		U				30	U
PCB Congener # 39	U	10	"		U				30	U
PCB Congener # 40 and/or 41,71	99	10	"		99			0.586	30	
PCB Congener # 42	97	10	"		97			0.591	30	
PCB Congener # 43	U	10	"		11				30	U
PCB Congener # 44 and/or 47,65	650	10	"		710			9.40	30	
PCB Congener # 45 and/or 51	31	10	"		28			11.2	30	
PCB Congener # 46	U	10	"		U				30	U
PCB Congener # 48	32	10	"		41			26.0	30	
PCB Congener # 49 and/or 69	410	10	"		480			15.0	30	
PCB Congener # 50 and/or 53	50	10	"		55			9.68	30	
PCB Congener # 52	680	10	"		750			9.11	30	
PCB Congener # 54	U	10	"		U				30	U
PCB Congener # 55	U	10	"		U				30	U
PCB Congener # 56	100	10	"		97			5.72	30	
PCB Congener # 57	U	10	"		U				30	U
PCB Congener # 58	U	10	"		U				30	U
PCB Congener # 59 and/or 62,75	54	10	"		49			8.07	30	
PCB Congener # 60	65	10	"		64			2.49	30	
PCB Congener # 61 and/or 70,74,76	750	10	"		760			0.588	30	
PCB Congener # 63	38	10	"		39			0.683	30	
PCB Congener # 64	190	10	"		180			6.70	30	
PCB Congener # 66	700	10	"		700			0.118	30	
PCB Congener # 67	11	10	"		11			3.40	30	
PCB Congener # 68	U	10	"		27				30	U
PCB Congener # 72	25	10	"		25			1.01	30	
PCB Congener # 73	U	10	"		U				30	U
PCB Congener # 77	27	10	"		28			6.24	30	
PCB Congener # 78	U	10	"		U				30	U
PCB Congener # 79	U	10	"		U				30	U
PCB Congener # 80	U	10	"		U				30	U
PCB Congener # 81	U	10	"		U				30	U
PCB Congener # 82	66	10	"		66			0.949	30	
PCB Congener # 83 and/or 99	1900	10	"		1700			13.8	30	
PCB Congener # 84	94	10	"		98			4.19	30	
PCB Congener # 85 and/or 116,117	360	10	"		410			13.8	30	
PCB Congener # 86 and/or 87,97,109,119,125	810	10	"		840			2.84	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 88 and/or 91	180	10	ng/kg		190			8.08	30	
PCB Congener # 89	U	10	"		U				30	U
PCB Congener # 90 and/or 101,113	1800	10	"		1800		1.81		30	
PCB Congener # 92	460	10	"		460		0.788		30	
PCB Congener # 93 and/or 95,98,100,102	630	10	"		680		7.79		30	
PCB Congener # 94	U	10	"		U				30	U
PCB Congener # 96	U	10	"		U				30	U
PCB Congener #103	32	10	"		31		3.69		30	
PCB Congener #104	U	10	"		U				30	U
PCB Congener #105	630	10	"		610		4.58		30	
PCB Congener #106	U	10	"		U				30	U
PCB Congener #107	190	10	"		170		8.79		30	
PCB Congener #108 and/or 124	44	10	"		38		13.5		30	
PCB Congener #110 and/or 115	1500	10	"		1500		3.69		30	
PCB Congener #111	U	10	"		U				30	U
PCB Congener #112	U	10	"		U				30	U
PCB Congener #114	39	10	"		40		2.89		30	
PCB Congener #118	2100	10	"		2000		6.22		30	
PCB Congener #120	31	10	"		24		25.0		30	
PCB Congener #121	U	10	"		U				30	U
PCB Congener #122	U	10	"		U				30	U
PCB Congener #123	34	10	"		31		9.41		30	
PCB Congener #126	U	10	"		U				30	U
PCB Congener #127	U	10	"		U				30	U
PCB Congener #128 and/or 166	550	50	"		460		17.4		30	
PCB Congener #129 and/or 138,160,163	4200	50	"		3700		14.5		30	
PCB Congener #130	210	50	"		180		16.1		30	
PCB Congener #131	U	50	"		U				30	U
PCB Congener #132	290	50	"		250		17.8		30	
PCB Congener #133	110	50	"		79		31.5		30	J, QM-4
PCB Congener #134 and/or 143	53	50	"		U				30	
PCB Congener #135 and/or 151,154	1300	50	"		1000		27.9		30	
PCB Congener #136	72	50	"		63		13.0		30	
PCB Congener #137	150	50	"		120		24.4		30	
PCB Congener #139 and/or 140	81	50	"		67		18.9		30	
PCB Congener #141	310	50	"		260		16.0		30	
PCB Congener #142	U	50	"		U				30	U
PCB Congener #144	95	50	"		87		8.23		30	
PCB Congener #145	U	50	"		U				30	U
PCB Congener #146	950	50	"		800		16.4		30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1210127 - E 1668</b>										
<b>Duplicate (1210127-DUP1)</b>	<b>Source: E124007-07</b>			Prepared: 10/18/12		Analyzed: 10/30/12				
PCB Congener #147 and/or 149	2300	50	ng/kg		1700			29.7	30	
PCB Congener #148	U	50	"		U				30	U
PCB Congener #150	U	50	"		U				30	U
PCB Congener #152	U	50	"		U				30	U
PCB Congener #153 and/or 168	4800	50	"		4100			16.4	30	
PCB Congener #155	82	10	"		79			2.90	30	
PCB Congener #156 and/or 157	320	10	"		280			10.4	30	
PCB Congener #158	290	50	"		250			14.7	30	
PCB Congener #159	U	50	"		U				30	U
PCB Congener #161	U	50	"		U				30	U
PCB Congener #162	U	50	"		U				30	U
PCB Congener #164	160	50	"		130			20.6	30	
PCB Congener #165	U	50	"		U				30	U
PCB Congener #167	140	10	"		130			7.89	30	
PCB Congener #169	U	50	"		U				30	U
PCB Congener #170	410	50	"		410			1.14	30	
PCB Congener #171 and/or 173	150	50	"		140			7.48	30	
PCB Congener #172	97	50	"		89			9.21	30	
PCB Congener #174	220	50	"		200			9.41	30	
PCB Congener #175	U	50	"		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	210	50	"		200			3.37	30	
PCB Congener #178	240	50	"		230			7.48	30	
PCB Congener #179	100	50	"		90			13.6	30	
PCB Congener #180 and/or 193	1000	50	"		1100			4.80	30	
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	560	50	"		470			18.7	30	
PCB Congener #184	100	50	"		94			9.35	30	
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	1600	50	"		1500			8.59	30	
PCB Congener #188	6.1	50	"		U				30	J, Q-2
PCB Congener #189	25	50	"		18			30.5	30	J, Q-2, QM-4
PCB Congener #190	90	50	"		120			27.7	30	
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	130	50	"		140			6.06	30	
PCB Congener #195	79	50	"		75			4.84	30	
PCB Congener #196	64	50	"		120			58.3	30	J, QM-4



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/30/12

PCB Congener #197 and/or 200	U	50	ng/kg		U				30	U
PCB Congener #198 and/or 199	520	50	"		500		2.55		30	
PCB Congener #201	74	50	"		53		34.2		30	J, QM-4
PCB Congener #202	260	50	"		240		5.94		30	
PCB Congener #203	540	50	"		460		16.1		30	
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	20	50	"		19		7.79		30	J, Q-2
PCB Congener #206	460	50	"		370		21.0		30	
PCB Congener #207	U	50	"		U				30	U
PCB Congener #208	180	50	"		150		21.3		30	
PCB Congener #209	240	100	"		240		1.20		30	

**MRL Verification (1210127-PS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	94.312		ng/kg	201.00	46.9	15-140				
Surrogate: <sup>13</sup> C PCB Congener # 3L	102.73		"	201.00	51.1	15-140				
Surrogate: <sup>13</sup> C PCB Congener # 4L	116.00		"	201.00	57.7	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 15L	111.26		"	201.00	55.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 19L	99.357		"	201.00	49.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 37L	107.02		"	201.00	53.2	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 54L	118.59		"	201.00	59.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 77L	102.17		"	201.00	50.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 81L	69.648		"	201.00	34.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 104L	126.29		"	201.00	62.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 105L	96.302		"	201.00	47.9	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.13		"	201.00	50.3	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 118L	98.513		"	201.00	49.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 123L	85.387		"	201.00	42.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 126L	65.427		"	201.00	32.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 155L	127.86		"	201.00	63.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	219.04		"	402.01	54.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 167L	111.76		"	201.00	55.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 169L	65.025		"	201.00	32.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 188L	99.397		"	201.00	49.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 189L	93.367		"	201.00	46.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 202L	95.276		"	201.00	47.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 205L	71.337		"	201.00	35.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 206L	158.69		"	201.00	79.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 208L	74.050		"	201.00	36.8	30-140				



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**MRL Verification (1210127-PS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	214.87		ng/kg	201.00		107	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	208.74		"	196.98		106	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	155.10		"	194.97		79.5	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	219.74		"	182.91		120	40-125			
PCB Congener # 1	13	10	"	10.050		130	30-170			MRL-4
PCB Congener # 3	12	10	"	10.050		115	30-170			MRL-4
PCB Congener # 4	13	10	"	10.050		130	30-170			MRL-4
PCB Congener # 15	17	10	"	10.050		167	30-170			MRL-4
PCB Congener # 19	10	10	"	10.050		103	30-170			MRL-4
PCB Congener # 37	13	10	"	10.050		129	30-170			MRL-4
PCB Congener # 54	9.6	10	"	10.050		95.8	30-170			MRL-4, Q-2, J
PCB Congener # 77	11	10	"	10.050		113	30-170			MRL-4
PCB Congener # 81	9.8	50	"	10.050		98.0	30-170			MRL-4, Q-2, J
PCB Congener #104	8.1	10	"	10.050		80.8	30-170			MRL-4, Q-2, J
PCB Congener #105	14	10	"	10.050		138	30-170			MRL-4
PCB Congener #114	9.0	10	"	10.050		89.6	30-170			MRL-4, Q-2, J
PCB Congener #118	22	10	"	10.050		221	30-170			MRL-4, QR-2
PCB Congener #123	11	10	"	10.050		113	30-170			MRL-4
PCB Congener #126	11	50	"	10.050		113	30-170			MRL-4, Q-2, J
PCB Congener #155	7.2	10	"	10.050		71.8	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	24	10	"	20.100		118	30-170			MRL-4
PCB Congener #167	9.9	10	"	10.050		98.8	30-170			MRL-4, Q-2, J
PCB Congener #169	10	50	"	10.050		102	30-170			MRL-4, Q-2, J
PCB Congener #188	7.2	50	"	10.050		72.0	30-170			MRL-4, Q-2, J
PCB Congener #189	13	10	"	10.050		128	30-170			MRL-4
PCB Congener #202	13	50	"	10.050		129	30-170			MRL-4, Q-2, J
PCB Congener #205	10	10	"	10.050		102	30-170			MRL-4
PCB Congener #206	37	10	"	10.050		372	30-170			MRL-4, QR-2
PCB Congener #208	14	10	"	10.050		144	30-170			MRL-4
PCB Congener #209	25	20	"	20.100		125	30-170			MRL-4



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**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1210135 - E 3550 Tissue</b>										
<b>Blank (1210135-BLK1)</b>										
					Prepared: 10/22/12 Analyzed: 10/23/12					
<b>ASB E100</b>										
% Lipids	0.0		%							
<b>Duplicate (1210135-DUP1)</b>										
			Source: E124007-07		Prepared: 10/22/12 Analyzed: 10/23/12					
<b>ASB E100</b>										
% Lipids	1.1		%		1.1			0.00	20	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- B-5 Qualitative evidence of contamination in the blank at a concentration less than the MDL.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QI-1 Internal standard was outside of method control limits.
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QM-4 Matrix Precision outside method control limits
- QR-2 MRL verification recovery greater than upper control limits.



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**November 21, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b>		
PCB Congeners	EPA 1668A (Tissue)	None
PCB Congeners	EPA 1668A (Water)	None
<b>Physical Properties (PHYSP)</b>		
Physical Properties	ASB E100 (Tissue)	None





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**Report Narrative** for Work Order E124007, Project: 13-0025

11/21/12 SJH PCB Congeners: Dilutions were performed on samples and QC due to matrix interferences precluding quantitation in the undiluted extracts. Hence, some of the MRLs have been elevated.

**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
BB5	E124007-01	Equipment Rinse Blank	10/3/12 08:35	10/2/12 10:41
DIB	E124007-02	Dry Ice Blank	10/3/12 08:30	10/2/12 10:41
12-195	E124007-03	Fish	8/6/12 12:00	10/2/12 10:41
12-196	E124007-04	Fish	8/6/12 12:00	10/2/12 10:41
12-197	E124007-05	Fish	8/6/12 12:00	10/2/12 10:41
12-197D	E124007-06	Fish	8/6/12 12:00	10/2/12 10:41
12-198	E124007-07	Fish	8/6/12 12:00	10/2/12 10:41
12-199	E124007-08	Fish	8/6/12 12:00	10/2/12 10:41
12-200	E124007-09	Fish	8/6/12 12:00	10/2/12 10:41
12-200D	E124007-10	Fish	8/6/12 12:00	10/2/12 10:41
12-201	E124007-11	Fish	8/6/12 12:00	10/2/12 10:41
12-202	E124007-12	Fish	8/6/12 12:00	10/2/12 10:41
12-203	E124007-13	Fish	8/6/12 12:00	10/2/12 10:41
12-204	E124007-14	Fish	8/6/12 12:00	10/2/12 10:41
12-205	E124007-15	Fish	8/6/12 12:00	10/2/12 10:41
12-205D	E124007-16	Fish	8/6/12 12:00	10/2/12 10:41
12-206	E124007-17	Fish	8/6/12 12:00	10/2/12 10:41
12-207	E124007-18	Fish	8/6/12 12:00	10/2/12 10:41
12-208	E124007-19	Fish	8/6/12 12:00	10/2/12 10:41
12-209	E124007-20	Fish	8/6/12 12:00	10/2/12 10:41



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### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
B-5	Qualitative evidence of contamination in the blank at a concentration less than the MDL.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-4	Matrix Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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## PCB Congeners

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB5**

**Lab ID: E124007-01**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/3/12 8:35**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB5**

Lab ID: **E124007-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/3/12 8:35

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
40186-72-9	PCB Congener #206	250	U, B-2	pg/L	250	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-79-3	PCB Congener #207	100	U, J, QI-1	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
52663-77-1	PCB Congener #208	100	U, J, QI-1	pg/L	100	10/17/12 9:46	11/01/12 19:17	EPA 1668A
2051-24-3	PCB Congener #209	500	U, J, QI-1	pg/L	500	10/17/12 9:46	11/01/12 19:17	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB

Lab ID: E124007-02

Station ID:

Matrix: Dry Ice Blank

Date Collected: 10/3/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
40186-72-9	PCB Congener #206	150	U, B-2	pg/L	150	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
52663-77-1	PCB Congener #208	47	J, Q-2, QR-2	pg/L	100	10/17/12 9:46	11/01/12 20:21	EPA 1668A
2051-24-3	PCB Congener #209	400	J, Q-2, QL-2, QR-2	pg/L	500	10/17/12 9:46	11/01/12 20:21	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2051-61-8	PCB Congener # 2	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2051-62-9	PCB Congener # 3	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
13029-08-8	PCB Congener # 4	24		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
16605-91-7	PCB Congener # 5	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
25569-80-6	PCB Congener # 6	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33284-50-3	PCB Congener # 7	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
34883-43-7	PCB Congener # 8	21	U, B-5	ng/kg	21	10/18/12 17:44	10/25/12 18:59	EPA 1668A
34883-39-1	PCB Congener # 9	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33146-45-1	PCB Congener # 10	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2050-67-1	PCB Congener # 11	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
34883-41-5	PCB Congener # 14	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
2050-68-2	PCB Congener # 15	28		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-78-9	PCB Congener # 16	13		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
37680-66-3	PCB Congener # 17	50		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	40	U, B-5	ng/kg	40	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-73-4	PCB Congener # 19	19		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	170		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	13	U, B-5	ng/kg	13	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-85-8	PCB Congener # 22	21		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
55720-44-0	PCB Congener # 23	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
55702-45-9	PCB Congener # 24	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
55712-37-3	PCB Congener # 25	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	15		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-76-7	PCB Congener # 27	14		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
16606-02-3	PCB Congener # 31	79		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-77-8	PCB Congener # 32	21		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
37680-69-6	PCB Congener # 35	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-87-0	PCB Congener # 36	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-90-5	PCB Congener # 37	14	U, B-2	ng/kg	14	10/18/12 17:44	10/25/12 18:59	EPA 1668A
53555-66-1	PCB Congener # 38	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
38444-88-1	PCB Congener # 39	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	74		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
36559-22-5	PCB Congener # 42	71		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-46-8	PCB Congener # 43	11		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	550		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	25		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-47-5	PCB Congener # 46	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-47-9	PCB Congener # 48	28		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	320		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	43		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
35693-99-3	PCB Congener # 52	540		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
15968-05-5	PCB Congener # 54	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74338-24-2	PCB Congener # 55	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-43-1	PCB Congener # 56	67		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70424-67-8	PCB Congener # 57	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-49-7	PCB Congener # 58	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	40		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33025-41-1	PCB Congener # 60	44		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	540		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74472-34-7	PCB Congener # 63	29		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-58-8	PCB Congener # 64	150		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32598-10-0	PCB Congener # 66	520		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-53-8	PCB Congener # 67	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-52-7	PCB Congener # 68	20		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	18		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74338-23-1	PCB Congener # 73	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32598-13-3	PCB Congener # 77	20		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-49-1	PCB Congener # 78	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
41464-48-6	PCB Congener # 79	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
33284-52-5	PCB Congener # 80	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70362-50-4	PCB Congener # 81	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-62-4	PCB Congener # 82	42		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1100		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-60-2	PCB Congener # 84	75		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	250		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	500		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	120		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-57-2	PCB Congener # 89	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1100		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
52663-61-3	PCB Congener # 92	270		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	410		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-55-0	PCB Congener # 94	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
73575-54-9	PCB Congener # 96	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
60145-21-3	PCB Congener #103	17		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
56558-16-8	PCB Congener #104	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32598-14-4	PCB Congener #105	370		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70424-69-0	PCB Congener #106	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
70424-68-9	PCB Congener #107	110		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	26		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	900		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
39635-32-0	PCB Congener #111	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74472-36-9	PCB Congener #112	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	21		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
31508-00-6	PCB Congener #118	1200		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
68194-12-7	PCB Congener #120	18		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
56558-18-0	PCB Congener #121	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
76842-07-4	PCB Congener #122	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
65510-44-3	PCB Congener #123	25		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
57465-28-8	PCB Congener #126	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
39635-33-1	PCB Congener #127	9.9	U	ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	290		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2200		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-66-8	PCB Congener #130	110		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
38380-05-1	PCB Congener #132	190		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35694-04-3	PCB Congener #133	53		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	670		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35694-06-5	PCB Congener #137	78		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52712-04-6	PCB Congener #141	140		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
68194-14-9	PCB Congener #144	51		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
51908-16-8	PCB Congener #146	530		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1200		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2500		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	40		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	180		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
74472-42-7	PCB Congener #158	130		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-45-0	PCB Congener #164	96		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-72-6	PCB Congener #167	80		ng/kg	9.9	10/18/12 17:44	10/25/12 18:59	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	77		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
38411-25-5	PCB Congener #174	120		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-70-4	PCB Congener #177	110		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-67-9	PCB Congener #178	120		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-64-6	PCB Congener #179	78		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	630		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	290		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-48-3	PCB Congener #184	51		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-68-0	PCB Congener #187	890		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
39635-31-9	PCB Congener #189	8.7	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
41411-64-7	PCB Congener #190	59		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
35694-08-7	PCB Congener #194	63		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
42740-50-1	PCB Congener #196	50		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	250		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
2136-99-4	PCB Congener #202	130		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-76-0	PCB Congener #203	260		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
74472-53-0	PCB Congener #205	9.7	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
40186-72-9	PCB Congener #206	220		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
52663-77-1	PCB Congener #208	97		ng/kg	50	10/18/12 17:44	10/30/12 18:50	EPA 1668A
2051-24-3	PCB Congener #209	140		ng/kg	99	10/18/12 17:44	10/30/12 18:50	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-195

Lab ID: E124007-03

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
13029-08-8	PCB Congener # 4	9.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
34883-43-7	PCB Congener # 8	11	U, B-5	ng/kg	11	10/18/12 17:44	10/25/12 20:02	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
2050-68-2	PCB Congener # 15	13	U, B-2	ng/kg	13	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
37680-66-3	PCB Congener # 17	20		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	19	U, B-5	ng/kg	19	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-73-4	PCB Congener # 19	5.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	68		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-85-8	PCB Congener # 22	10		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
16606-02-3	PCB Congener # 31	35	U, B-5	ng/kg	35	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	37		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
36559-22-5	PCB Congener # 42	34		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	250		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	12		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-47-9	PCB Congener # 48	11		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	160		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	18		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
35693-99-3	PCB Congener # 52	250		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	22		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33025-41-1	PCB Congener # 60	29		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	310		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74472-34-7	PCB Congener # 63	15		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-58-8	PCB Congener # 64	66		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32598-10-0	PCB Congener # 66	290		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32598-13-3	PCB Congener # 77	11		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-62-4	PCB Congener # 82	21		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	580		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-60-2	PCB Congener # 84	31		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	130		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	240		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	55		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	490		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
52663-61-3	PCB Congener # 92	140		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	170		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32598-14-4	PCB Congener #105	220		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
70424-68-9	PCB Congener #107	64		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	14		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	450		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	12		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
31508-00-6	PCB Congener #118	780		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
68194-12-7	PCB Congener #120	11		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
65510-44-3	PCB Congener #123	14		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	180		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1300		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
38380-05-1	PCB Congener #132	82		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	320		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52712-04-6	PCB Congener #141	96		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
51908-16-8	PCB Congener #146	310		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	660		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	1500		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	22		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
74472-42-7	PCB Congener #158	75		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-45-0	PCB Congener #164	53		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-72-6	PCB Congener #167	49		ng/kg	10	10/18/12 17:44	10/25/12 20:02	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35065-30-6	PCB Congener #170	150		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
38411-25-5	PCB Congener #174	72		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-70-4	PCB Congener #177	65		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-67-9	PCB Congener #178	70		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	360		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	180		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-68-0	PCB Congener #187	630		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
39635-31-9	PCB Congener #189	8.5	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	220		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
2136-99-4	PCB Congener #202	71		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-76-0	PCB Congener #203	200		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
40186-72-9	PCB Congener #206	160		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
52663-77-1	PCB Congener #208	71		ng/kg	50	10/18/12 17:44	10/30/12 19:53	EPA 1668A
2051-24-3	PCB Congener #209	100		ng/kg	100	10/18/12 17:44	10/30/12 19:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-196

Lab ID: E124007-04

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
13029-08-8	PCB Congener # 4	18		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
34883-43-7	PCB Congener # 8	14	U, B-5	ng/kg	14	10/18/12 17:44	10/25/12 21:06	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
2050-68-2	PCB Congener # 15	21	U, B-2	ng/kg	21	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-78-9	PCB Congener # 16	18		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
37680-66-3	PCB Congener # 17	59		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	53		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-73-4	PCB Congener # 19	17		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	230		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	18	U, B-5	ng/kg	18	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-85-8	PCB Congener # 22	30		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
55712-37-3	PCB Congener # 25	12		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	20		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-76-7	PCB Congener # 27	17		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
16606-02-3	PCB Congener # 31	110		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-77-8	PCB Congener # 32	25		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-90-5	PCB Congener # 37	14		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	85		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
36559-22-5	PCB Congener # 42	100		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-46-8	PCB Congener # 43	12		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	680		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	35		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-47-9	PCB Congener # 48	45		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	470		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	51		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
35693-99-3	PCB Congener # 52	700		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-43-1	PCB Congener # 56	110		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	48		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33025-41-1	PCB Congener # 60	62		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	720		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74472-34-7	PCB Congener # 63	37		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-58-8	PCB Congener # 64	160		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32598-10-0	PCB Congener # 66	670		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-52-7	PCB Congener # 68	21		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	22		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32598-13-3	PCB Congener # 77	27		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-62-4	PCB Congener # 82	63		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1500		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-60-2	PCB Congener # 84	110		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	330		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	700		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	170		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	940		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
52663-61-3	PCB Congener # 92	400		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	590		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
60145-21-3	PCB Congener #103	29		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32598-14-4	PCB Congener #105	480		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
70424-68-9	PCB Congener #107	160		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	35		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1300		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	29		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
31508-00-6	PCB Congener #118	1700		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
68194-12-7	PCB Congener #120	28		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
65510-44-3	PCB Congener #123	30		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	430		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3200		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-66-8	PCB Congener #130	160		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
38380-05-1	PCB Congener #132	260		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35694-04-3	PCB Congener #133	91		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1200		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
38411-22-2	PCB Congener #136	98		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35694-06-5	PCB Congener #137	110		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	64		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52712-04-6	PCB Congener #141	230		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
68194-14-9	PCB Congener #144	81		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
51908-16-8	PCB Congener #146	830		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1800		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4000		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	61		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	270		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
74472-42-7	PCB Congener #158	240		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-72-6	PCB Congener #167	140		ng/kg	10	10/18/12 17:44	10/25/12 21:06	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35065-30-6	PCB Congener #170	460		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	160		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-74-8	PCB Congener #172	100		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
38411-25-5	PCB Congener #174	220		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-65-7	PCB Congener #176	51		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-70-4	PCB Congener #177	220		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-67-9	PCB Congener #178	330		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-64-6	PCB Congener #179	180		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1300		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	610		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-48-3	PCB Congener #184	110		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-68-0	PCB Congener #187	1800		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
39635-31-9	PCB Congener #189	20	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
41411-64-7	PCB Congener #190	150		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
35694-08-7	PCB Congener #194	140		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-78-2	PCB Congener #195	79		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	610		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
40186-71-8	PCB Congener #201	55		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
2136-99-4	PCB Congener #202	260		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-76-0	PCB Congener #203	470		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
40186-72-9	PCB Congener #206	550		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-79-3	PCB Congener #207	61		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
52663-77-1	PCB Congener #208	240		ng/kg	50	10/18/12 17:44	10/30/12 20:57	EPA 1668A
2051-24-3	PCB Congener #209	400		ng/kg	100	10/18/12 17:44	10/30/12 20:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197

Lab ID: E124007-05

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.4		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
13029-08-8	PCB Congener # 4	19		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
34883-43-7	PCB Congener # 8	13	U, B-5	ng/kg	13	10/18/12 17:44	10/25/12 22:10	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
2050-68-2	PCB Congener # 15	20	U, B-2	ng/kg	20	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-78-9	PCB Congener # 16	16		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
37680-66-3	PCB Congener # 17	51		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	43		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-73-4	PCB Congener # 19	17		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	170		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	15	U, B-5	ng/kg	15	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-85-8	PCB Congener # 22	23		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
55712-37-3	PCB Congener # 25	10		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	18		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-76-7	PCB Congener # 27	13		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
16606-02-3	PCB Congener # 31	88		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-77-8	PCB Congener # 32	22		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-90-5	PCB Congener # 37	15		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	99		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
36559-22-5	PCB Congener # 42	92		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	640		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	31		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-47-9	PCB Congener # 48	44		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	420		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	52		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
35693-99-3	PCB Congener # 52	670		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-43-1	PCB Congener # 56	92		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	49		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33025-41-1	PCB Congener # 60	57		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	710		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74472-34-7	PCB Congener # 63	33		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-58-8	PCB Congener # 64	180		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32598-10-0	PCB Congener # 66	610		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-52-7	PCB Congener # 68	23		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	22		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32598-13-3	PCB Congener # 77	23		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-62-4	PCB Congener # 82	52		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1500		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-60-2	PCB Congener # 84	93		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	240		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	660		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	150		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1400		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
52663-61-3	PCB Congener # 92	360		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	550		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
60145-21-3	PCB Congener #103	26		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32598-14-4	PCB Congener #105	450		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
70424-68-9	PCB Congener #107	150		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	32		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	970		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	29		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
31508-00-6	PCB Congener #118	1700		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
68194-12-7	PCB Congener #120	27		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
65510-44-3	PCB Congener #123	26		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	400		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2900		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-66-8	PCB Congener #130	160		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
38380-05-1	PCB Congener #132	250		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35694-04-3	PCB Congener #133	84		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	940		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
38411-22-2	PCB Congener #136	83		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	52		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52712-04-6	PCB Congener #141	230		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
68194-14-9	PCB Congener #144	64		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
51908-16-8	PCB Congener #146	740		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1500		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3700		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A





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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	64		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	260		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
74472-42-7	PCB Congener #158	210		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-45-0	PCB Congener #164	110		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-72-6	PCB Congener #167	130		ng/kg	10	10/18/12 17:44	10/25/12 22:10	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35065-30-6	PCB Congener #170	400		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	130		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-74-8	PCB Congener #172	84		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
38411-25-5	PCB Congener #174	170		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-70-4	PCB Congener #177	200		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-67-9	PCB Congener #178	240		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-64-6	PCB Congener #179	130		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1100		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	490		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-48-3	PCB Congener #184	83		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-68-0	PCB Congener #187	1400		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74487-85-7	PCB Congener #188	5.7	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
39635-31-9	PCB Congener #189	21	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
41411-64-7	PCB Congener #190	120		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
35694-08-7	PCB Congener #194	150		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-78-2	PCB Congener #195	83		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
42740-50-1	PCB Congener #196	130		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	560		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
2136-99-4	PCB Congener #202	280		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-76-0	PCB Congener #203	500		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
40186-72-9	PCB Congener #206	590		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-79-3	PCB Congener #207	56		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
52663-77-1	PCB Congener #208	240		ng/kg	50	10/18/12 17:44	10/30/12 22:01	EPA 1668A
2051-24-3	PCB Congener #209	410		ng/kg	100	10/18/12 17:44	10/30/12 22:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-197D

Lab ID: E124007-06

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.5		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 12-198**

**Lab ID: E124007-07**

**Station ID: YAD-FALLS**

**Matrix: Fish**

**Date Collected: 8/6/12 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
13029-08-8	PCB Congener # 4	13		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
2050-68-2	PCB Congener # 15	15	U, B-2	ng/kg	15	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
37680-66-3	PCB Congener # 17	34		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	28	U, B-5	ng/kg	28	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-73-4	PCB Congener # 19	8.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	140		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-85-8	PCB Congener # 22	17		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	13		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
16606-02-3	PCB Congener # 31	70		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-77-8	PCB Congener # 32	14		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A



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Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 12-198**

**Lab ID: E124007-07**

**Station ID: YAD-FALLS**

**Matrix: Fish**

**Date Collected: 8/6/12 12:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-90-5	PCB Congener # 37	14	U, B-2	ng/kg	14	10/18/12 17:44	10/25/12 23:14	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	99		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
36559-22-5	PCB Congener # 42	97		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-46-8	PCB Congener # 43	11		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	710		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	28		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-47-9	PCB Congener # 48	41		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	480		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	55		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
35693-99-3	PCB Congener # 52	750		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-43-1	PCB Congener # 56	97		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	49		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33025-41-1	PCB Congener # 60	64		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	760		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74472-34-7	PCB Congener # 63	39		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-58-8	PCB Congener # 64	180		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32598-10-0	PCB Congener # 66	700		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-52-7	PCB Congener # 68	27		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 12-198**

**Lab ID: E124007-07**

**Station ID: YAD-FALLS**

**Matrix: Fish**

**Date Collected: 8/6/12 12:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	25		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32598-13-3	PCB Congener # 77	28		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-62-4	PCB Congener # 82	66		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1700		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-60-2	PCB Congener # 84	98		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	410		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	840		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	190		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1800		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
52663-61-3	PCB Congener # 92	460		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	680		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
60145-21-3	PCB Congener #103	31		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32598-14-4	PCB Congener #105	610		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
70424-68-9	PCB Congener #107	170		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	38		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1500		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	40		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
31508-00-6	PCB Congener #118	2000		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
68194-12-7	PCB Congener #120	24		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
65510-44-3	PCB Congener #123	31		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	460		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3700		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-66-8	PCB Congener #130	180		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
38380-05-1	PCB Congener #132	250		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35694-04-3	PCB Congener #133	79	J, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1000		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
38411-22-2	PCB Congener #136	63		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	67		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52712-04-6	PCB Congener #141	260		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
68194-14-9	PCB Congener #144	87		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
51908-16-8	PCB Congener #146	800		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1700		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4100		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	79		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	280		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
74472-42-7	PCB Congener #158	250		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-45-0	PCB Congener #164	130		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-72-6	PCB Congener #167	130		ng/kg	10	10/18/12 17:44	10/25/12 23:14	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35065-30-6	PCB Congener #170	410		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	140		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-74-8	PCB Congener #172	89		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
38411-25-5	PCB Congener #174	200		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-70-4	PCB Congener #177	200		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-67-9	PCB Congener #178	230		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-64-6	PCB Congener #179	90		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1100		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	470		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-48-3	PCB Congener #184	94		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-68-0	PCB Congener #187	1500		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
39635-31-9	PCB Congener #189	18	J, Q-2, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
41411-64-7	PCB Congener #190	120		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
35694-08-7	PCB Congener #194	140		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-78-2	PCB Congener #195	75		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
42740-50-1	PCB Congener #196	120	J, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	500		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
40186-71-8	PCB Congener #201	53	J, QM-4	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
2136-99-4	PCB Congener #202	240		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-76-0	PCB Congener #203	460		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
74472-53-0	PCB Congener #205	19	J, Q-2	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
40186-72-9	PCB Congener #206	370		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
52663-77-1	PCB Congener #208	150		ng/kg	50	10/18/12 17:44	10/30/12 23:05	EPA 1668A
2051-24-3	PCB Congener #209	240		ng/kg	100	10/18/12 17:44	10/30/12 23:05	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-198

Lab ID: E124007-07

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
13029-08-8	PCB Congener # 4	20		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
34883-43-7	PCB Congener # 8	15	U, B-5	ng/kg	15	10/18/12 17:44	10/26/12 13:20	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
37680-66-3	PCB Congener # 17	35		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	50		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-73-4	PCB Congener # 19	8.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	250		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	12	U, B-5	ng/kg	12	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-85-8	PCB Congener # 22	22		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
16606-02-3	PCB Congener # 31	53		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-77-8	PCB Congener # 32	12		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	150		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
36559-22-5	PCB Congener # 42	110		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1500		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	19		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-47-9	PCB Congener # 48	62		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	900		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	21		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
35693-99-3	PCB Congener # 52	680		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-43-1	PCB Congener # 56	89		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33025-41-1	PCB Congener # 60	140		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74472-34-7	PCB Congener # 63	100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
52663-58-8	PCB Congener # 64	290		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32598-10-0	PCB Congener # 66	2200		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-52-7	PCB Congener # 68	66		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	46		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32598-13-3	PCB Congener # 77	8.4	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
52663-62-4	PCB Congener # 82	49		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	5400		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-60-2	PCB Congener # 84	23		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	1100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1200		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	300		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	3300		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
52663-61-3	PCB Congener # 92	760		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	760		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-55-0	PCB Congener # 94	12		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
60145-21-3	PCB Congener #103	53		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32598-14-4	PCB Congener #105	2100		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
70424-68-9	PCB Congener #107	580		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	46		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2700		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
39635-32-0	PCB Congener #111	12		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	130		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
31508-00-6	PCB Congener #118	7400		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-12-7	PCB Congener #120	98		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
56558-18-0	PCB Congener #121	22		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
65510-44-3	PCB Congener #123	120		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	1700		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	14000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-66-8	PCB Congener #130	640		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
38380-05-1	PCB Congener #132	540		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35694-04-3	PCB Congener #133	330		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	3300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35694-06-5	PCB Congener #137	530		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	220		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52712-04-6	PCB Congener #141	810		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-14-9	PCB Congener #144	170		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
51908-16-8	PCB Congener #146	3300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	4800		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-41-6	PCB Congener #148	86		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	17000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	220		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	1200		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
74472-42-7	PCB Congener #158	990		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-45-0	PCB Congener #164	440		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-72-6	PCB Congener #167	700		ng/kg	10	10/18/12 17:44	10/26/12 13:20	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35065-30-6	PCB Congener #170	1300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	500		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-74-8	PCB Congener #172	290		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
38411-25-5	PCB Congener #174	640		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
40186-70-7	PCB Congener #175	130		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-65-7	PCB Congener #176	78		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-70-4	PCB Congener #177	1000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-67-9	PCB Congener #178	920		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-64-6	PCB Congener #179	510		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	4300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1800		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-48-3	PCB Congener #184	300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-68-0	PCB Congener #187	6300		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74487-85-7	PCB Congener #188	22	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
39635-31-9	PCB Congener #189	61		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
41411-64-7	PCB Congener #190	500		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 12-199**

**Lab ID: E124007-08**

**Station ID: YAD-FALLS**

**Matrix: Fish**

**Date Collected: 8/6/12 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	72		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
35694-08-7	PCB Congener #194	430		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-78-2	PCB Congener #195	290		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
42740-50-1	PCB Congener #196	350		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	85		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	2100		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
40186-71-8	PCB Congener #201	220		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
2136-99-4	PCB Congener #202	1000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-76-0	PCB Congener #203	2000		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
74472-53-0	PCB Congener #205	84		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
40186-72-9	PCB Congener #206	1400		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-79-3	PCB Congener #207	180		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
52663-77-1	PCB Congener #208	880		ng/kg	50	10/18/12 17:44	10/31/12 0:08	EPA 1668A
2051-24-3	PCB Congener #209	1300		ng/kg	100	10/18/12 17:44	10/31/12 0:08	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-199

Lab ID: E124007-08

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.9		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
13029-08-8	PCB Congener # 4	4.2	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	25	U, B-2	ng/kg	25	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
16606-02-3	PCB Congener # 31	15	U, B-5	ng/kg	15	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	16		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
36559-22-5	PCB Congener # 42	14		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	81		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	54		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
35693-99-3	PCB Congener # 52	59	U, B-2	ng/kg	59	10/18/12 17:44	10/26/12 14:24	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-43-1	PCB Congener # 56	13		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33025-41-1	PCB Congener # 60	13		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	83		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-58-8	PCB Congener # 64	19		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32598-10-0	PCB Congener # 66	130		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32598-13-3	PCB Congener # 77	3.8	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	240		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	43		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	81		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	15		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	200		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
52663-61-3	PCB Congener # 92	45		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	50		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32598-14-4	PCB Congener #105	86		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
70424-68-9	PCB Congener #107	23		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	82		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.8	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
31508-00-6	PCB Congener #118	340		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
65510-44-3	PCB Congener #123	6.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	55		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	480		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
51908-16-8	PCB Congener #146	120		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	160		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	600		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	7.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	64		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-72-6	PCB Congener #167	30		ng/kg	10	10/18/12 17:44	10/26/12 14:24	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35065-30-6	PCB Congener #170	64		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	190		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	59		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-68-0	PCB Congener #187	190		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	56		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
2136-99-4	PCB Congener #202	40	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-76-0	PCB Congener #203	71		ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
40186-72-9	PCB Congener #206	63	U, B-2	ng/kg	63	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 1:12	EPA 1668A
2051-24-3	PCB Congener #209	53	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 1:12	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200

Lab ID: E124007-09

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.40		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: 12-200D**

**Lab ID: E124007-10**

**Station ID: YAD-FALLS**

**Matrix: Fish**

**Date Collected: 8/6/12 12:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
13029-08-8	PCB Congener # 4	4.8	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-73-4	PCB Congener # 19	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	31	U, B-2	ng/kg	31	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
16606-02-3	PCB Congener # 31	14	U, B-5	ng/kg	14	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
36559-22-5	PCB Congener # 42	13		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	90		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	50		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
35693-99-3	PCB Congener # 52	72	U, B-2	ng/kg	72	10/18/12 17:44	10/26/12 15:27	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-43-1	PCB Congener # 56	11		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33025-41-1	PCB Congener # 60	15		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	89		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-58-8	PCB Congener # 64	20		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32598-10-0	PCB Congener # 66	110		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32598-13-3	PCB Congener # 77	3.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	200		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	44		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	80		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	14		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	170		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
52663-61-3	PCB Congener # 92	41		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	44	U, B-5	ng/kg	44	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32598-14-4	PCB Congener #105	65		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
70424-68-9	PCB Congener #107	19		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	91		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
31508-00-6	PCB Congener #118	250		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
65510-44-3	PCB Congener #123	4.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	52		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	370		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	71		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
51908-16-8	PCB Congener #146	77		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	110		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	420		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	6.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	34		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-72-6	PCB Congener #167	17		ng/kg	10	10/18/12 17:44	10/26/12 15:27	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	73		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-68-0	PCB Congener #187	180		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	54		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
2136-99-4	PCB Congener #202	45	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-76-0	PCB Congener #203	71		ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
40186-72-9	PCB Congener #206	69	U, B-2	ng/kg	69	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 18:53	EPA 1668A
2051-24-3	PCB Congener #209	51	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 18:53	EPA 1668A



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-200D

Lab ID: E124007-10

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.1		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
13029-08-8	PCB Congener # 4	5.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
37680-66-3	PCB Congener # 17	12		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-73-4	PCB Congener # 19	2.5	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	24	U, B-2	ng/kg	24	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
16606-02-3	PCB Congener # 31	13	U, B-5	ng/kg	13	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	51	U, B-2	ng/kg	51	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	36		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
35693-99-3	PCB Congener # 52	55	U, B-2	ng/kg	55	10/18/12 17:44	10/29/12 12:34	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	53	U, B-2	ng/kg	53	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-58-8	PCB Congener # 64	13		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32598-10-0	PCB Congener # 66	56		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32598-13-3	PCB Congener # 77	3.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	150		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	32		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	57		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	130		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
52663-61-3	PCB Congener # 92	33		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	38	U, B-5	ng/kg	38	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32598-14-4	PCB Congener #105	53		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
70424-68-9	PCB Congener #107	18		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	93		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
31508-00-6	PCB Congener #118	190		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
65510-44-3	PCB Congener #123	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	53		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	350		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	75		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
51908-16-8	PCB Congener #146	69		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	370		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	4.7	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	32		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-72-6	PCB Congener #167	14		ng/kg	10	10/18/12 17:44	10/29/12 12:34	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	140		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	62		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-68-0	PCB Congener #187	170		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
2136-99-4	PCB Congener #202	30	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-76-0	PCB Congener #203	54		ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
40186-72-9	PCB Congener #206	69	U, B-2	ng/kg	69	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 19:56	EPA 1668A
2051-24-3	PCB Congener #209	39	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 19:56	EPA 1668A



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D.A.R.T. Id: 11-0321

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## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-201

Lab ID: E124007-11

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.50		%		10/22/12 19:56	10/23/12 9:30	ASB E100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
13029-08-8	PCB Congener # 4	7.7	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
37680-66-3	PCB Congener # 17	18		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	14	U, B-5	ng/kg	14	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-73-4	PCB Congener # 19	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	47	U, B-2	ng/kg	47	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
16606-02-3	PCB Congener # 31	20	U, B-5	ng/kg	20	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	15		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
36559-22-5	PCB Congener # 42	15		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	97		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	14		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
35693-99-3	PCB Congener # 52	150		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-43-1	PCB Congener # 56	16		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33025-41-1	PCB Congener # 60	15		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	140		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-58-8	PCB Congener # 64	25		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32598-10-0	PCB Congener # 66	180		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A





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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32598-13-3	PCB Congener # 77	6.4	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	360		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	91		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	130		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	25		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	330		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
52663-61-3	PCB Congener # 92	69		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	93		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32598-14-4	PCB Congener #105	150		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
70424-68-9	PCB Congener #107	42		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	120		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	7.2	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
31508-00-6	PCB Congener #118	510		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
65510-44-3	PCB Congener #123	12		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	700		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	130		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
51908-16-8	PCB Congener #146	140		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	250		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	760		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	11		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	73		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-72-6	PCB Congener #167	34		ng/kg	10	10/18/12 17:44	10/29/12 13:38	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35065-30-6	PCB Congener #170	95		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
38411-25-5	PCB Congener #174	50		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-70-4	PCB Congener #177	69		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-67-9	PCB Congener #178	56		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	310		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-68-0	PCB Congener #187	380		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	83		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
2136-99-4	PCB Congener #202	55		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-76-0	PCB Congener #203	90		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
40186-72-9	PCB Congener #206	86	U, B-2	ng/kg	86	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
52663-77-1	PCB Congener #208	55		ng/kg	50	10/18/12 17:44	10/31/12 21:00	EPA 1668A
2051-24-3	PCB Congener #209	65	J, Q-2	ng/kg	100	10/18/12 17:44	10/31/12 21:00	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-202

Lab ID: E124007-12

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.80		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
13029-08-8	PCB Congener # 4	8.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
37680-66-3	PCB Congener # 17	20		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	17	U, B-5	ng/kg	17	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-73-4	PCB Congener # 19	3.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	35	U, B-2	ng/kg	35	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
16606-02-3	PCB Congener # 31	15	U, B-5	ng/kg	15	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	12		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
36559-22-5	PCB Congener # 42	12		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	77		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	48		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
35693-99-3	PCB Congener # 52	81	U, B-2	ng/kg	81	10/18/12 17:44	10/29/12 14:42	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	69	U, B-2	ng/kg	69	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-58-8	PCB Congener # 64	14		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32598-10-0	PCB Congener # 66	80		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32598-13-3	PCB Congener # 77	5.4	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	130		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	30		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	49		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	13		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	140		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
52663-61-3	PCB Congener # 92	28		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	50		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32598-14-4	PCB Congener #105	48		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
70424-68-9	PCB Congener #107	15		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	52	U, B-2	ng/kg	52	10/18/12 17:44	10/29/12 14:42	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	2.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
31508-00-6	PCB Congener #118	180		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
65510-44-3	PCB Congener #123	2.9	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	230		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	92		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	260		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	3.1	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	20		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-72-6	PCB Congener #167	11		ng/kg	10	10/18/12 17:44	10/29/12 14:42	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	85		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-68-0	PCB Congener #187	110		ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
2136-99-4	PCB Congener #202	17	J, Q-2	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
40186-72-9	PCB Congener #206	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 22:04	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	10/18/12 17:44	10/31/12 22:04	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-203

Lab ID: E124007-13

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	1.8		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
13029-08-8	PCB Congener # 4	4.9	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
34883-43-7	PCB Congener # 8	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
2050-68-2	PCB Congener # 15	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-78-9	PCB Congener # 16	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
37680-66-3	PCB Congener # 17	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-73-4	PCB Congener # 19	2.6	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	16	U, B-2	ng/kg	16	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-85-8	PCB Congener # 22	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-76-7	PCB Congener # 27	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
16606-02-3	PCB Congener # 31	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-77-8	PCB Congener # 32	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
36559-22-5	PCB Congener # 42	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	29	U, B-2	ng/kg	29	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-47-9	PCB Congener # 48	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	15	U, B-5	ng/kg	15	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
35693-99-3	PCB Congener # 52	22	U, B-2	ng/kg	22	10/18/12 17:44	10/29/12 15:45	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-43-1	PCB Congener # 56	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33025-41-1	PCB Congener # 60	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	26	U, B-2	ng/kg	26	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74472-34-7	PCB Congener # 63	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-58-8	PCB Congener # 64	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32598-10-0	PCB Congener # 66	33	U, B-5	ng/kg	33	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-52-7	PCB Congener # 68	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32598-13-3	PCB Congener # 77	2.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	35	U, B-5	ng/kg	35	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-60-2	PCB Congener # 84	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	11		ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	12		ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	41	U, B-2	ng/kg	41	10/18/12 17:44	10/29/12 15:45	EPA 1668A
52663-61-3	PCB Congener # 92	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	13	U, B-5	ng/kg	13	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
60145-21-3	PCB Congener #103	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32598-14-4	PCB Congener #105	21	U, B-2	ng/kg	21	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
70424-68-9	PCB Congener #107	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	23	U, B-2	ng/kg	23	10/18/12 17:44	10/29/12 15:45	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
31508-00-6	PCB Congener #118	65		ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
68194-12-7	PCB Congener #120	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
65510-44-3	PCB Congener #123	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	79	U, B-2	ng/kg	79	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-66-8	PCB Congener #130	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52712-04-6	PCB Congener #141	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
51908-16-8	PCB Congener #146	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	78	U, B-2	ng/kg	78	10/18/12 17:44	10/31/12 23:08	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	8.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
74472-42-7	PCB Congener #158	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-45-0	PCB Congener #164	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-72-6	PCB Congener #167	10	U	ng/kg	10	10/18/12 17:44	10/29/12 15:45	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35065-30-6	PCB Congener #170	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
38411-25-5	PCB Congener #174	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-70-4	PCB Congener #177	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-67-9	PCB Congener #178	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-64-6	PCB Congener #179	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-68-0	PCB Congener #187	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
41411-64-7	PCB Congener #190	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
2136-99-4	PCB Congener #202	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-76-0	PCB Congener #203	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
40186-72-9	PCB Congener #206	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
52663-77-1	PCB Congener #208	50	U	ng/kg	50	10/18/12 17:44	10/31/12 23:08	EPA 1668A
2051-24-3	PCB Congener #209	100	U	ng/kg	100	10/18/12 17:44	10/31/12 23:08	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-204

Lab ID: E124007-14

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	0.60		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
13029-08-8	PCB Congener # 4	46		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
34883-43-7	PCB Congener # 8	24	U, B-5	ng/kg	24	10/18/12 17:44	10/29/12 16:49	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
2050-68-2	PCB Congener # 15	19	U, B-2	ng/kg	19	10/18/12 17:44	10/29/12 16:49	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
37680-66-3	PCB Congener # 17	210		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	140		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-73-4	PCB Congener # 19	15	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	360		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-85-8	PCB Congener # 22	59		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
16606-02-3	PCB Congener # 31	150		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-77-8	PCB Congener # 32	62		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-90-5	PCB Congener # 37	12	U, B-2	ng/kg	12	10/18/12 17:44	10/29/12 16:49	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	160		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
36559-22-5	PCB Congener # 42	400		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-46-8	PCB Congener # 43	36		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1500		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	70		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-47-9	PCB Congener # 48	100		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	180		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
35693-99-3	PCB Congener # 52	1800		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-43-1	PCB Congener # 56	97		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70424-67-8	PCB Congener # 57	33		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33025-41-1	PCB Congener # 60	140		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74472-34-7	PCB Congener # 63	73		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-58-8	PCB Congener # 64	530		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32598-10-0	PCB Congener # 66	1800		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-53-8	PCB Congener # 67	13		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-52-7	PCB Congener # 68	53		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	43		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32598-13-3	PCB Congener # 77	45		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
41464-48-6	PCB Congener # 79	20		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	3700		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-60-2	PCB Congener # 84	72		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	690		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	420		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	3500		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
52663-61-3	PCB Congener # 92	820		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1300		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-55-0	PCB Congener # 94	11		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
60145-21-3	PCB Congener #103	57		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32598-14-4	PCB Congener #105	1200		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
70424-68-9	PCB Congener #107	330		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	69		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2800		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	75		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
31508-00-6	PCB Congener #118	4600		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-12-7	PCB Congener #120	60		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
56558-18-0	PCB Congener #121	12		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
65510-44-3	PCB Congener #123	94		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	810		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	7200		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-66-8	PCB Congener #130	280		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38380-05-1	PCB Congener #132	310		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35694-04-3	PCB Congener #133	170		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1800		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38411-22-2	PCB Congener #136	74		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35694-06-5	PCB Congener #137	220		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	110		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52712-04-6	PCB Congener #141	430		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-14-9	PCB Congener #144	120		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
51908-16-8	PCB Congener #146	1600		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	3700		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	11000		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	130		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	600		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
74472-42-7	PCB Congener #158	480		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-45-0	PCB Congener #164	270		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-72-6	PCB Congener #167	400		ng/kg	10	10/18/12 17:44	10/29/12 16:49	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35065-30-6	PCB Congener #170	720		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	290		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-74-8	PCB Congener #172	180		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
38411-25-5	PCB Congener #174	470		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
40186-70-7	PCB Congener #175	59		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-65-7	PCB Congener #176	55		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-70-4	PCB Congener #177	430		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-67-9	PCB Congener #178	440		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-64-6	PCB Congener #179	310		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	2500		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	990		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-48-3	PCB Congener #184	130		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-68-0	PCB Congener #187	2700		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74487-85-7	PCB Congener #188	11	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
39635-31-9	PCB Congener #189	32	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
41411-64-7	PCB Congener #190	270		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
35694-08-7	PCB Congener #194	330		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-78-2	PCB Congener #195	190		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
42740-50-1	PCB Congener #196	230		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	52		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	850		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
40186-71-8	PCB Congener #201	140		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
2136-99-4	PCB Congener #202	610		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-76-0	PCB Congener #203	1200		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
74472-53-0	PCB Congener #205	38	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
40186-72-9	PCB Congener #206	850		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-79-3	PCB Congener #207	96		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
52663-77-1	PCB Congener #208	480		ng/kg	50	10/18/12 17:44	11/01/12 0:11	EPA 1668A
2051-24-3	PCB Congener #209	660		ng/kg	100	10/18/12 17:44	11/01/12 0:11	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205

Lab ID: E124007-15

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	5.8		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
13029-08-8	PCB Congener # 4	49		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
34883-43-7	PCB Congener # 8	24	U, B-5	ng/kg	24	10/18/12 17:44	10/29/12 17:53	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
2050-68-2	PCB Congener # 15	18	U, B-2	ng/kg	18	10/18/12 17:44	10/29/12 17:53	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
37680-66-3	PCB Congener # 17	210		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	140		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	350		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-85-8	PCB Congener # 22	54		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
16606-02-3	PCB Congener # 31	150		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-77-8	PCB Congener # 32	59		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-90-5	PCB Congener # 37	12	U, B-2	ng/kg	12	10/18/12 17:44	10/29/12 17:53	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	140		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
36559-22-5	PCB Congener # 42	390		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1400		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	61		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-47-9	PCB Congener # 48	98		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1100		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	160		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
35693-99-3	PCB Congener # 52	1700		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-43-1	PCB Congener # 56	91		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70424-67-8	PCB Congener # 57	39		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33025-41-1	PCB Congener # 60	140		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1300		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74472-34-7	PCB Congener # 63	68		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-58-8	PCB Congener # 64	430		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32598-10-0	PCB Congener # 66	1600		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-53-8	PCB Congener # 67	12		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-52-7	PCB Congener # 68	52		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	41		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32598-13-3	PCB Congener # 77	49		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
41464-48-6	PCB Congener # 79	13		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	3500		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-60-2	PCB Congener # 84	75		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	750		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1500		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	420		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	3800		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
52663-61-3	PCB Congener # 92	820		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1300		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-55-0	PCB Congener # 94	11		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
60145-21-3	PCB Congener #103	59		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32598-14-4	PCB Congener #105	1200		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
70424-68-9	PCB Congener #107	320		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	78		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2900		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	77		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
31508-00-6	PCB Congener #118	4600		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-12-7	PCB Congener #120	63		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
56558-18-0	PCB Congener #121	11		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
65510-44-3	PCB Congener #123	110		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	720		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	6200		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-66-8	PCB Congener #130	270		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38380-05-1	PCB Congener #132	280		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35694-04-3	PCB Congener #133	160		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1600		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38411-22-2	PCB Congener #136	62		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35694-06-5	PCB Congener #137	250		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52712-04-6	PCB Congener #141	420		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-14-9	PCB Congener #144	120		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
51908-16-8	PCB Congener #146	1500		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	3400		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	9900		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	120		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	590		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
74472-42-7	PCB Congener #158	450		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-45-0	PCB Congener #164	230		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-72-6	PCB Congener #167	430		ng/kg	10	10/18/12 17:44	10/29/12 17:53	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35065-30-6	PCB Congener #170	830		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	310		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-74-8	PCB Congener #172	160		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
38411-25-5	PCB Congener #174	450		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
40186-70-7	PCB Congener #175	55		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-65-7	PCB Congener #176	60		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-70-4	PCB Congener #177	460		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-67-9	PCB Congener #178	450		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-64-6	PCB Congener #179	330		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	2800		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	1100		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-48-3	PCB Congener #184	130		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-68-0	PCB Congener #187	2600		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74487-85-7	PCB Congener #188	12	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
39635-31-9	PCB Congener #189	33	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
41411-64-7	PCB Congener #190	290		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-205D

Lab ID: E124007-16

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
35694-08-7	PCB Congener #194	410		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-78-2	PCB Congener #195	180		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
42740-50-1	PCB Congener #196	270		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	65		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	900		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
40186-71-8	PCB Congener #201	130		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
2136-99-4	PCB Congener #202	590		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-76-0	PCB Congener #203	1200		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
74472-53-0	PCB Congener #205	31	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
40186-72-9	PCB Congener #206	850		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-79-3	PCB Congener #207	90		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
52663-77-1	PCB Congener #208	480		ng/kg	50	10/18/12 17:44	11/01/12 1:15	EPA 1668A
2051-24-3	PCB Congener #209	720		ng/kg	100	10/18/12 17:44	11/01/12 1:15	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** 12-205D

**Lab ID:** E124007-16

**Station ID:** YAD-FALLS

**Matrix:** Fish

**Date Collected:** 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	4.1		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
13029-08-8	PCB Congener # 4	56		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
34883-43-7	PCB Congener # 8	20	U, B-5	ng/kg	20	10/18/12 17:44	10/29/12 18:57	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
2050-68-2	PCB Congener # 15	20	U, B-2	ng/kg	20	10/18/12 17:44	10/29/12 18:57	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
37680-66-3	PCB Congener # 17	170		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	130		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-73-4	PCB Congener # 19	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	370		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-85-8	PCB Congener # 22	54		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-76-7	PCB Congener # 27	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
16606-02-3	PCB Congener # 31	140		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-77-8	PCB Congener # 32	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-90-5	PCB Congener # 37	13	U, B-2	ng/kg	13	10/18/12 17:44	10/29/12 18:57	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	97		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
36559-22-5	PCB Congener # 42	490		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-46-8	PCB Congener # 43	32		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1200		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	52		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-47-9	PCB Congener # 48	86		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	150		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
35693-99-3	PCB Congener # 52	1700		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-43-1	PCB Congener # 56	58		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33025-41-1	PCB Congener # 60	120		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74472-34-7	PCB Congener # 63	64		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-58-8	PCB Congener # 64	500		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32598-10-0	PCB Congener # 66	1600		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-53-8	PCB Congener # 67	11		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-52-7	PCB Congener # 68	34		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	29		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32598-13-3	PCB Congener # 77	51		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
41464-48-6	PCB Congener # 79	16		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2700		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-60-2	PCB Congener # 84	64		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	490		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	280		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	2600		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
52663-61-3	PCB Congener # 92	570		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	1100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
60145-21-3	PCB Congener #103	40		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32598-14-4	PCB Congener #105	740		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
70424-68-9	PCB Congener #107	220		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	50		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	2100		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	41		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
31508-00-6	PCB Congener #118	2800		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
68194-12-7	PCB Congener #120	41		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
65510-44-3	PCB Congener #123	68		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	490		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	4400		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-66-8	PCB Congener #130	190		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38380-05-1	PCB Congener #132	220		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35694-04-3	PCB Congener #133	110		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	1300		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38411-22-2	PCB Congener #136	56		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35694-06-5	PCB Congener #137	120		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	64		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
68194-14-9	PCB Congener #144	84		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
51908-16-8	PCB Congener #146	1000		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	2700		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	6800		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	110		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	300		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
74472-42-7	PCB Congener #158	300		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-45-0	PCB Congener #164	150		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-72-6	PCB Congener #167	270		ng/kg	10	10/18/12 17:44	10/29/12 18:57	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35065-30-6	PCB Congener #170	320		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	170		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-74-8	PCB Congener #172	74		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
38411-25-5	PCB Congener #174	200		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-65-7	PCB Congener #176	51		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-70-4	PCB Congener #177	300		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-67-9	PCB Congener #178	330		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-64-6	PCB Congener #179	250		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	1400		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	570		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-48-3	PCB Congener #184	120		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-68-0	PCB Congener #187	1600		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74487-85-7	PCB Congener #188	7.5	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
39635-31-9	PCB Congener #189	14	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
41411-64-7	PCB Congener #190	180		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
35694-08-7	PCB Congener #194	140		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-78-2	PCB Congener #195	92		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	380		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
40186-71-8	PCB Congener #201	76		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
2136-99-4	PCB Congener #202	400		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-76-0	PCB Congener #203	660		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
74472-53-0	PCB Congener #205	16	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
40186-72-9	PCB Congener #206	320		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
52663-77-1	PCB Congener #208	170		ng/kg	50	10/18/12 17:44	11/01/12 2:19	EPA 1668A
2051-24-3	PCB Congener #209	250		ng/kg	100	10/18/12 17:44	11/01/12 2:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-206

Lab ID: E124007-17

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	5.2		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
13029-08-8	PCB Congener # 4	36		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
34883-43-7	PCB Congener # 8	17	U, B-5	ng/kg	17	10/18/12 17:44	10/29/12 20:01	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
2050-68-2	PCB Congener # 15	14	U, B-2	ng/kg	14	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-78-9	PCB Congener # 16	18		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
37680-66-3	PCB Congener # 17	160		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-73-4	PCB Congener # 19	9.3	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	130		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-85-8	PCB Congener # 22	44		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
55712-37-3	PCB Congener # 25	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	14		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-76-7	PCB Congener # 27	35		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
16606-02-3	PCB Congener # 31	64		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-77-8	PCB Congener # 32	24		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-90-5	PCB Congener # 37	12	U, B-2	ng/kg	12	10/18/12 17:44	10/29/12 20:01	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	67		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
36559-22-5	PCB Congener # 42	210		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-46-8	PCB Congener # 43	11		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	460		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	27		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-47-9	PCB Congener # 48	58		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	400		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	89		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
35693-99-3	PCB Congener # 52	640		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-43-1	PCB Congener # 56	41		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	36		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33025-41-1	PCB Congener # 60	41		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	360		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74472-34-7	PCB Congener # 63	20		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-58-8	PCB Congener # 64	170		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32598-10-0	PCB Congener # 66	550		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-52-7	PCB Congener # 68	14		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	11		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32598-13-3	PCB Congener # 77	22		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-62-4	PCB Congener # 82	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	980		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-60-2	PCB Congener # 84	17		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	170		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	420		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	990		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
52663-61-3	PCB Congener # 92	180		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	490		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
60145-21-3	PCB Congener #103	12		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32598-14-4	PCB Congener #105	270		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
70424-68-9	PCB Congener #107	82		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	19		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	740		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	15		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
31508-00-6	PCB Congener #118	1500		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
68194-12-7	PCB Congener #120	17		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
65510-44-3	PCB Congener #123	29		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	130		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	1500		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-66-8	PCB Congener #130	51		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
38380-05-1	PCB Congener #132	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	340		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35694-06-5	PCB Congener #137	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52712-04-6	PCB Congener #141	65		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
51908-16-8	PCB Congener #146	320		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	840		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	2700		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	21		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	120		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
74472-42-7	PCB Congener #158	85		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-45-0	PCB Congener #164	51		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-72-6	PCB Congener #167	120		ng/kg	10	10/18/12 17:44	10/29/12 20:01	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35065-30-6	PCB Congener #170	93		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
38411-25-5	PCB Congener #174	59		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-70-4	PCB Congener #177	83		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-67-9	PCB Congener #178	68		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-64-6	PCB Congener #179	50		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	530		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	170		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-68-0	PCB Congener #187	490		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
41411-64-7	PCB Congener #190	51		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
35694-08-7	PCB Congener #194	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-78-2	PCB Congener #195	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
40186-71-8	PCB Congener #201	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
2136-99-4	PCB Congener #202	110		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-76-0	PCB Congener #203	250		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
40186-72-9	PCB Congener #206	110	B-2	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
52663-77-1	PCB Congener #208	73		ng/kg	50	10/18/12 17:44	11/01/12 3:23	EPA 1668A
2051-24-3	PCB Congener #209	88	J, Q-2	ng/kg	100	10/18/12 17:44	11/01/12 3:23	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-207

Lab ID: E124007-18

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.3		%		10/22/12 19:56	10/23/12 9:30	ASB E100





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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
13029-08-8	PCB Congener # 4	82		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
34883-43-7	PCB Congener # 8	69		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
2050-68-2	PCB Congener # 15	40		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
38444-78-9	PCB Congener # 16	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
37680-66-3	PCB Congener # 17	360		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	170		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-73-4	PCB Congener # 19	69		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	450		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-85-8	PCB Congener # 22	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
55720-44-0	PCB Congener # 23	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
55702-45-9	PCB Congener # 24	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
55712-37-3	PCB Congener # 25	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-76-7	PCB Congener # 27	120		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
16606-02-3	PCB Congener # 31	190		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-77-8	PCB Congener # 32	160		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
37680-69-6	PCB Congener # 35	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-87-0	PCB Congener # 36	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
53555-66-1	PCB Congener # 38	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38444-88-1	PCB Congener # 39	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	190		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
36559-22-5	PCB Congener # 42	290		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-46-8	PCB Congener # 43	23		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	1300		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-47-5	PCB Congener # 46	14		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-47-9	PCB Congener # 48	85		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	940		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	170		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
35693-99-3	PCB Congener # 52	940		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
15968-05-5	PCB Congener # 54	4.0	J, Q-2	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-43-1	PCB Congener # 56	65		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70424-67-8	PCB Congener # 57	16		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33025-41-1	PCB Congener # 60	97		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	720		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74472-34-7	PCB Congener # 63	49		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-58-8	PCB Congener # 64	410		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32598-10-0	PCB Congener # 66	1100		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-53-8	PCB Congener # 67	10		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-52-7	PCB Congener # 68	33		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	23		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32598-13-3	PCB Congener # 77	17		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
41464-48-6	PCB Congener # 79	10		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70362-50-4	PCB Congener # 81	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-62-4	PCB Congener # 82	69		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	2200		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-60-2	PCB Congener # 84	130		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	410		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	920		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	280		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-57-2	PCB Congener # 89	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1700		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
52663-61-3	PCB Congener # 92	450		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	640		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-55-0	PCB Congener # 94	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
73575-54-9	PCB Congener # 96	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
60145-21-3	PCB Congener #103	38		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32598-14-4	PCB Congener #105	590		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70424-69-0	PCB Congener #106	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
70424-68-9	PCB Congener #107	170		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	23		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	1900		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
39635-32-0	PCB Congener #111	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74472-36-9	PCB Congener #112	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	36		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
31508-00-6	PCB Congener #118	1800		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
68194-12-7	PCB Congener #120	31		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
56558-18-0	PCB Congener #121	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
76842-07-4	PCB Congener #122	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
65510-44-3	PCB Congener #123	47		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
57465-28-8	PCB Congener #126	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
39635-33-1	PCB Congener #127	10	U	ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	460		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	3300		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-66-8	PCB Congener #130	180		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38380-05-1	PCB Congener #132	330		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35694-04-3	PCB Congener #133	86		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	55		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	910		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35694-06-5	PCB Congener #137	100		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	61		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52712-04-6	PCB Congener #141	200		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
68194-14-9	PCB Congener #144	56		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
51908-16-8	PCB Congener #146	710		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	1800		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	4200		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A



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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	68		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	230		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
74472-42-7	PCB Congener #158	240		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-45-0	PCB Congener #164	150		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-72-6	PCB Congener #167	150		ng/kg	10	10/18/12 17:44	10/29/12 21:04	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35065-30-6	PCB Congener #170	360		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	150		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-74-8	PCB Congener #172	63		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
38411-25-5	PCB Congener #174	210		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-70-4	PCB Congener #177	320		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-67-9	PCB Congener #178	240		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-64-6	PCB Congener #179	160		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	930		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	460		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-48-3	PCB Congener #184	73		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-68-0	PCB Congener #187	1400		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
39635-31-9	PCB Congener #189	15	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
41411-64-7	PCB Congener #190	130		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
35694-08-7	PCB Congener #194	90		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-78-2	PCB Congener #195	80		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
42740-50-1	PCB Congener #196	110		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	390		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
40186-71-8	PCB Congener #201	64		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
2136-99-4	PCB Congener #202	320		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-76-0	PCB Congener #203	440		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
74472-53-0	PCB Congener #205	15	J, Q-2	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
40186-72-9	PCB Congener #206	360		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
52663-77-1	PCB Congener #208	190		ng/kg	50	10/18/12 17:44	11/01/12 4:27	EPA 1668A
2051-24-3	PCB Congener #209	230		ng/kg	100	10/18/12 17:44	11/01/12 4:27	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-208

Lab ID: E124007-19

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	3.5		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2051-61-8	PCB Congener # 2	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2051-62-9	PCB Congener # 3	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
13029-08-8	PCB Congener # 4	47		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
16605-91-7	PCB Congener # 5	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
25569-80-6	PCB Congener # 6	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33284-50-3	PCB Congener # 7	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
34883-43-7	PCB Congener # 8	20	U, B-5	ng/kg	20	10/18/12 17:44	10/29/12 22:08	EPA 1668A
34883-39-1	PCB Congener # 9	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33146-45-1	PCB Congener # 10	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2050-67-1	PCB Congener # 11	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
34883-41-5	PCB Congener # 14	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
2050-68-2	PCB Congener # 15	13	U, B-2	ng/kg	13	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-78-9	PCB Congener # 16	37		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
37680-66-3	PCB Congener # 17	230		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-73-4	PCB Congener # 19	28		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	200		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-85-8	PCB Congener # 22	43		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
55720-44-0	PCB Congener # 23	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
55702-45-9	PCB Congener # 24	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
55712-37-3	PCB Congener # 25	12		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	13		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-76-7	PCB Congener # 27	48		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
16606-02-3	PCB Congener # 31	68		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-77-8	PCB Congener # 32	34		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
37680-69-6	PCB Congener # 35	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-87-0	PCB Congener # 36	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-90-5	PCB Congener # 37	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
53555-66-1	PCB Congener # 38	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
38444-88-1	PCB Congener # 39	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	97		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
36559-22-5	PCB Congener # 42	240		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-46-8	PCB Congener # 43	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	770		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	50		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-47-5	PCB Congener # 46	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-47-9	PCB Congener # 48	61		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	540		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	77		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
35693-99-3	PCB Congener # 52	510		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
15968-05-5	PCB Congener # 54	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74338-24-2	PCB Congener # 55	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-43-1	PCB Congener # 56	38		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70424-67-8	PCB Congener # 57	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-49-7	PCB Congener # 58	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	53		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33025-41-1	PCB Congener # 60	61		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	420		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74472-34-7	PCB Congener # 63	26		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
52663-58-8	PCB Congener # 64	200		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32598-10-0	PCB Congener # 66	740		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
73575-53-8	PCB Congener # 67	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
73575-52-7	PCB Congener # 68	19		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	12		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74338-23-1	PCB Congener # 73	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32598-13-3	PCB Congener # 77	14		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-49-1	PCB Congener # 78	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
41464-48-6	PCB Congener # 79	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
33284-52-5	PCB Congener # 80	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70362-50-4	PCB Congener # 81	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-62-4	PCB Congener # 82	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	1400		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-60-2	PCB Congener # 84	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	270		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	530		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	160		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
73575-57-2	PCB Congener # 89	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	1300		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-61-3	PCB Congener # 92	260		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	410		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
73575-55-0	PCB Congener # 94	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
73575-54-9	PCB Congener # 96	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
60145-21-3	PCB Congener #103	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
56558-16-8	PCB Congener #104	10	U	ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32598-14-4	PCB Congener #105	380		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
70424-69-0	PCB Congener #106	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
70424-68-9	PCB Congener #107	120		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	940		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-32-0	PCB Congener #111	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-36-9	PCB Congener #112	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	23		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
31508-00-6	PCB Congener #118	1500		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
68194-12-7	PCB Congener #120	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
56558-18-0	PCB Congener #121	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
76842-07-4	PCB Congener #122	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
65510-44-3	PCB Congener #123	34		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
57465-28-8	PCB Congener #126	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-33-1	PCB Congener #127	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	250		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	2100		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-66-8	PCB Congener #130	80		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
61798-70-7	PCB Congener #131	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
38380-05-1	PCB Congener #132	71		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35694-04-3	PCB Congener #133	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	460		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
38411-22-2	PCB Congener #136	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35694-06-5	PCB Congener #137	57		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52712-04-6	PCB Congener #141	77		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
41411-61-4	PCB Congener #142	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
68194-14-9	PCB Congener #144	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-40-5	PCB Congener #145	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
51908-16-8	PCB Congener #146	420		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	870		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-41-6	PCB Congener #148	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
68194-08-1	PCB Congener #150	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
68194-09-2	PCB Congener #152	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	3100		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	34		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	160		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
74472-42-7	PCB Congener #158	150		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-35-3	PCB Congener #159	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-43-8	PCB Congener #161	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-34-2	PCB Congener #162	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-45-0	PCB Congener #164	81		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-46-1	PCB Congener #165	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-72-6	PCB Congener #167	120		ng/kg	10	10/18/12 17:44	10/29/12 22:08	EPA 1668A
32774-16-6	PCB Congener #169	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35065-30-6	PCB Congener #170	190		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-74-8	PCB Congener #172	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
38411-25-5	PCB Congener #174	100		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
40186-70-7	PCB Congener #175	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-65-7	PCB Congener #176	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-70-4	PCB Congener #177	140		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-67-9	PCB Congener #178	190		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-64-6	PCB Congener #179	110		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	810		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-47-2	PCB Congener #181	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
60145-23-5	PCB Congener #182	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	360		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-48-3	PCB Congener #184	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-49-4	PCB Congener #186	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-68-0	PCB Congener #187	950		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74487-85-7	PCB Congener #188	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
39635-31-9	PCB Congener #189	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
41411-64-7	PCB Congener #190	88		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-51-8	PCB Congener #192	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
35694-08-7	PCB Congener #194	56		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-78-2	PCB Congener #195	53		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
42740-50-1	PCB Congener #196	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	180		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
40186-71-8	PCB Congener #201	52		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
2136-99-4	PCB Congener #202	230		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-76-0	PCB Congener #203	390		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-52-9	PCB Congener #204	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
74472-53-0	PCB Congener #205	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
40186-72-9	PCB Congener #206	200		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-79-3	PCB Congener #207	50	U	ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
52663-77-1	PCB Congener #208	110		ng/kg	50	10/18/12 17:44	11/01/12 5:30	EPA 1668A
2051-24-3	PCB Congener #209	150		ng/kg	100	10/18/12 17:44	11/01/12 5:30	EPA 1668A



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Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## Physical Properties

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa

Sample ID: 12-209

Lab ID: E124007-20

Station ID: YAD-FALLS

Matrix: Fish

Date Collected: 8/6/12 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
66455-18-3	% Lipids	2.9		%		10/22/12 19:56	10/23/12 9:30	ASB E100



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	711.20		pg/L	2000.0		35.6	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	712.60		"	2000.0		35.6	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	886.00		"	2000.0		44.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	840.00		"	2000.0		42.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	773.80		"	2000.0		38.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1198.8		"	2000.0		59.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1209.8		"	2000.0		60.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1443.2		"	2000.0		72.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1179.2		"	2000.0		59.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1006.4		"	2000.0		50.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1092.2		"	2000.0		54.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1116.8		"	2000.0		55.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1146.0		"	2000.0		57.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1143.6		"	2000.0		57.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1159.0		"	2000.0		58.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1173.4		"	2000.0		58.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2464.8		"	4000.0		61.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1240.0		"	2000.0		62.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1292.6		"	2000.0		64.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1277.4		"	2000.0		63.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1268.8		"	2000.0		63.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	1373.4		"	2000.0		68.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1188.4		"	2000.0		59.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1419.4		"	2000.0		71.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1206.4		"	2000.0		60.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	950.60		"	2000.0		47.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1283.8		"	1960.0		65.5	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1367.4		"	1940.0		70.5	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1414.8		"	1820.0		77.7	30-135			
PCB Congener # 1	U	100	"							U
PCB Congener # 2	U	100	"							U
PCB Congener # 3	U	100	"							U
PCB Congener # 4	26	100	"							B-3, Q-2, J
PCB Congener # 5	U	100	"							U
PCB Congener # 6	U	100	"							U
PCB Congener # 7	U	100	"							U
PCB Congener # 8	U	100	"							U
PCB Congener # 9	U	100	"							U



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 10	U	100	pg/L							U
PCB Congener # 11	U	100	"							U
PCB Congener # 12 and/or 13	U	100	"							U
PCB Congener # 14	U	100	"							U
PCB Congener # 15	57	100	"							B-3, Q-2, J
PCB Congener # 16	U	100	"							U
PCB Congener # 17	U	100	"							U
PCB Congener # 18 and/or 30	U	100	"							U
PCB Congener # 19	U	100	"							U
PCB Congener # 20 and/or 28	U	100	"							U
PCB Congener # 21 and/or 33	U	100	"							U
PCB Congener # 22	U	100	"							U
PCB Congener # 23	U	100	"							U
PCB Congener # 24	U	100	"							U
PCB Congener # 25	U	100	"							U
PCB Congener # 26 and/or 29	U	100	"							U
PCB Congener # 27	U	100	"							U
PCB Congener # 31	U	100	"							U
PCB Congener # 32	U	100	"							U
PCB Congener # 34	U	100	"							U
PCB Congener # 35	U	100	"							U
PCB Congener # 36	U	100	"							U
PCB Congener # 37	34	100	"							B-3, Q-2, J
PCB Congener # 38	U	100	"							U
PCB Congener # 39	U	100	"							U
PCB Congener # 40 and/or 41,71	U	100	"							U
PCB Congener # 42	U	100	"							U
PCB Congener # 43	U	100	"							U
PCB Congener # 44 and/or 47,65	U	100	"							U
PCB Congener # 45 and/or 51	U	100	"							U
PCB Congener # 46	U	100	"							U
PCB Congener # 48	U	100	"							U
PCB Congener # 49 and/or 69	U	100	"							U
PCB Congener # 50 and/or 53	U	100	"							U
PCB Congener # 52	U	100	"							U
PCB Congener # 54	U	100	"							U
PCB Congener # 55	U	100	"							U
PCB Congener # 56	U	100	"							U
PCB Congener # 57	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 58	U	100	pg/L							U
PCB Congener # 59 and/or 62,75	U	100	"							U
PCB Congener # 60	U	100	"							U
PCB Congener # 61 and/or 70,74,76	U	100	"							U
PCB Congener # 63	U	100	"							U
PCB Congener # 64	U	100	"							U
PCB Congener # 66	U	100	"							U
PCB Congener # 67	U	100	"							U
PCB Congener # 68	U	100	"							U
PCB Congener # 72	U	100	"							U
PCB Congener # 73	U	100	"							U
PCB Congener # 77	U	100	"							U
PCB Congener # 78	U	100	"							U
PCB Congener # 79	U	100	"							U
PCB Congener # 80	U	100	"							U
PCB Congener # 81	U	100	"							U
PCB Congener # 82	U	100	"							U
PCB Congener # 83 and/or 99	U	100	"							U
PCB Congener # 84	U	100	"							U
PCB Congener # 85 and/or 116,117	U	100	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	100	"							U
PCB Congener # 88 and/or 91	U	100	"							U
PCB Congener # 89	U	100	"							U
PCB Congener # 90 and/or 101,113	U	100	"							U
PCB Congener # 92	U	100	"							U
PCB Congener # 93 and/or 95,98,100,102	U	100	"							U
PCB Congener # 94	U	100	"							U
PCB Congener # 96	U	100	"							U
PCB Congener #103	U	100	"							U
PCB Congener #104	U	100	"							U
PCB Congener #105	17	100	"							B-3, Q-2, J
PCB Congener #106	U	100	"							U
PCB Congener #107	U	100	"							U
PCB Congener #108 and/or 124	U	100	"							U
PCB Congener #110 and/or 115	U	100	"							U
PCB Congener #111	U	100	"							U
PCB Congener #112	U	100	"							U
PCB Congener #114	U	100	"							U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #118	24	100	pg/L							B-3, Q-2, J
PCB Congener #120	U	100	"							U
PCB Congener #121	U	100	"							U
PCB Congener #122	U	100	"							U
PCB Congener #123	U	100	"							U
PCB Congener #126	U	100	"							U
PCB Congener #127	U	100	"							U
PCB Congener #128 and/or 166	U	100	"							U
PCB Congener #129 and/or 138,160,163	U	100	"							U
PCB Congener #130	U	100	"							U
PCB Congener #131	U	100	"							U
PCB Congener #132	U	100	"							U
PCB Congener #133	U	100	"							U
PCB Congener #134 and/or 143	U	100	"							U
PCB Congener #135 and/or 151,154	U	100	"							U
PCB Congener #136	U	100	"							U
PCB Congener #137	U	100	"							U
PCB Congener #139 and/or 140	U	100	"							U
PCB Congener #141	U	100	"							U
PCB Congener #142	U	100	"							U
PCB Congener #144	U	100	"							U
PCB Congener #145	U	100	"							U
PCB Congener #146	U	100	"							U
PCB Congener #147 and/or 149	U	100	"							U
PCB Congener #148	U	100	"							U
PCB Congener #150	U	100	"							U
PCB Congener #152	U	100	"							U
PCB Congener #153 and/or 168	U	100	"							U
PCB Congener #155	U	100	"							U
PCB Congener #156 and/or 157	U	100	"							U
PCB Congener #158	U	100	"							U
PCB Congener #159	U	100	"							U
PCB Congener #161	U	100	"							U
PCB Congener #162	U	100	"							U
PCB Congener #164	U	100	"							U
PCB Congener #165	U	100	"							U
PCB Congener #167	U	100	"							U
PCB Congener #169	U	100	"							U
PCB Congener #170	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Blank (1210112-BLK1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #171 and/or 173	U	100	pg/L							U
PCB Congener #172	U	100	"							U
PCB Congener #174	U	100	"							U
PCB Congener #175	U	100	"							U
PCB Congener #176	U	100	"							U
PCB Congener #177	U	100	"							U
PCB Congener #178	U	100	"							U
PCB Congener #179	U	100	"							U
PCB Congener #180 and/or 193	U	100	"							U
PCB Congener #181	U	100	"							U
PCB Congener #182	U	100	"							U
PCB Congener #183 and/or 185	U	100	"							U
PCB Congener #184	U	100	"							U
PCB Congener #186	U	100	"							U
PCB Congener #187	U	100	"							U
PCB Congener #188	U	100	"							U
PCB Congener #189	U	100	"							U
PCB Congener #190	U	100	"							U
PCB Congener #191	U	100	"							U
PCB Congener #192	U	100	"							U
PCB Congener #194	U	100	"							U
PCB Congener #195	U	100	"							U
PCB Congener #196	U	100	"							U
PCB Congener #197 and/or 200	U	100	"							U
PCB Congener #198 and/or 199	U	100	"							U
PCB Congener #201	U	100	"							U
PCB Congener #202	29	100	"							B-3, Q-2, J
PCB Congener #203	U	100	"							U
PCB Congener #204	U	100	"							U
PCB Congener #205	U	100	"							U
PCB Congener #206	140	100	"							B-4
PCB Congener #207	U	100	"							U
PCB Congener #208	U	100	"							U
PCB Congener #209	U	500	"							U



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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

LCS (1210112-BS1)

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	529.20		pg/L	2000.0		26.5	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	563.00		"	2000.0		28.2	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	608.40		"	2000.0		30.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	817.60		"	2000.0		40.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	700.20		"	2000.0		35.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1046.6		"	2000.0		52.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	902.40		"	2000.0		45.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1187.6		"	2000.0		59.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	934.20		"	2000.0		46.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	864.20		"	2000.0		43.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	940.00		"	2000.0		47.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	987.80		"	2000.0		49.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	909.40		"	2000.0		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	951.40		"	2000.0		47.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	977.20		"	2000.0		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1056.4		"	2000.0		52.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2366.6		"	4000.0		59.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1181.4		"	2000.0		59.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1222.2		"	2000.0		61.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1048.4		"	2000.0		52.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1217.0		"	2000.0		60.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	884.60		"	2000.0		44.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	845.80		"	2000.0		42.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1059.2		"	2000.0		53.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	865.80		"	2000.0		43.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	681.20		"	2000.0		34.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1031.4		"	1960.0		52.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1007.0		"	1940.0		51.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1130.6		"	1820.0		62.1	40-125			
PCB Congener # 1	1100	100	"	1000.0		107	50-150			
PCB Congener # 3	1100	100	"	1000.0		109	50-150			
PCB Congener # 4	920	100	"	1000.0		91.8	50-150			
PCB Congener # 15	1200	100	"	1000.0		122	50-150			
PCB Congener # 19	970	100	"	1000.0		96.9	50-150			
PCB Congener # 37	980	100	"	1000.0		98.1	50-150			
PCB Congener # 54	890	100	"	1000.0		89.2	50-150			
PCB Congener # 77	1100	100	"	1000.0		110	50-150			
PCB Congener # 81	1100	100	"	1000.0		112	50-150			



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**LCS (1210112-BS1)**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #104	880	100	pg/L	1000.0		87.6	50-150			
PCB Congener #105	1100	100	"	1000.0		110	50-150			
PCB Congener #114	1000	100	"	1000.0		101	50-150			
PCB Congener #118	1100	100	"	1000.0		115	50-150			
PCB Congener #123	1000	100	"	1000.0		102	50-150			
PCB Congener #126	990	100	"	1000.0		98.9	50-150			
PCB Congener #155	830	100	"	1000.0		82.5	50-150			
PCB Congener #156 and/or 157	2200	100	"	2000.0		109	50-150			
PCB Congener #167	1100	100	"	1000.0		107	50-150			
PCB Congener #169	1000	100	"	1000.0		105	50-150			
PCB Congener #188	900	100	"	1000.0		90.2	50-150			
PCB Congener #189	1100	100	"	1000.0		106	50-150			
PCB Congener #202	1100	100	"	1000.0		106	50-150			
PCB Congener #205	1100	100	"	1000.0		113	50-150			
PCB Congener #206	1400	100	"	1000.0		136	50-150			
PCB Congener #208	1200	100	"	1000.0		115	50-150			
PCB Congener #209	1800	500	"	1000.0		180	50-150			QL-2

**Duplicate (1210112-DUP1)**

Source: E124007-01

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	417.80		pg/L	2000.0		20.9	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	488.40		"	2000.0		24.4	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	504.60		"	2000.0		25.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	799.00		"	2000.0		40.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	613.40		"	2000.0		30.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1070.2		"	2000.0		53.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1003.8		"	2000.0		50.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1266.2		"	2000.0		63.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1019.6		"	2000.0		51.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	834.20		"	2000.0		41.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1024.6		"	2000.0		51.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1023.0		"	2000.0		51.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	951.20		"	2000.0		47.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1071.2		"	2000.0		53.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	973.20		"	2000.0		48.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	839.80		"	2000.0		42.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2010.4		"	4000.0		50.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	968.00		"	2000.0		48.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1025.2		"	2000.0		51.3	25-150			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

Surrogate: <sup>13</sup> C PCB Congener # 188L	737.80		pg/L	2000.0		36.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	806.00		"	2000.0		40.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	633.40		"	2000.0		31.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	570.60		"	2000.0		28.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	651.80		"	2000.0		32.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	539.80		"	2000.0		27.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	478.40		"	2000.0		23.9	25-150			QI-1
Surrogate: <sup>13</sup> C PCB Congener # 28L	1156.4		"	1960.0		59.0	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1220.6		"	1940.0		62.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1115.0		"	1820.0		61.3	30-135			
PCB Congener # 1	U	100	"		U				30	U
PCB Congener # 2	U	100	"		U				30	U
PCB Congener # 3	U	100	"		U				30	U
PCB Congener # 4	U	100	"		U				30	U
PCB Congener # 5	U	100	"		U				30	U
PCB Congener # 6	U	100	"		U				30	U
PCB Congener # 7	U	100	"		U				30	U
PCB Congener # 8	U	100	"		U				30	U
PCB Congener # 9	U	100	"		U				30	U
PCB Congener # 10	U	100	"		U				30	U
PCB Congener # 11	U	100	"		U				30	U
PCB Congener # 12 and/or 13	U	100	"		U				30	U
PCB Congener # 14	U	100	"		U				30	U
PCB Congener # 15	U	100	"		U				30	U
PCB Congener # 16	U	100	"		U				30	U
PCB Congener # 17	U	100	"		U				30	U
PCB Congener # 18 and/or 30	U	100	"		U				30	U
PCB Congener # 19	U	100	"		U				30	U
PCB Congener # 20 and/or 28	U	100	"		U				30	U
PCB Congener # 21 and/or 33	U	100	"		U				30	U
PCB Congener # 22	U	100	"		U				30	U
PCB Congener # 23	U	100	"		U				30	U
PCB Congener # 24	U	100	"		U				30	U
PCB Congener # 25	U	100	"		U				30	U
PCB Congener # 26 and/or 29	U	100	"		U				30	U
PCB Congener # 27	U	100	"		U				30	U
PCB Congener # 31	U	100	"		U				30	U
PCB Congener # 32	U	100	"		U				30	U
PCB Congener # 34	U	100	"		U				30	U
PCB Congener # 35	U	100	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 36	U	100	pg/L		U			30		U
PCB Congener # 37	U	100	"		U			30		U
PCB Congener # 38	U	100	"		U			30		U
PCB Congener # 39	U	100	"		U			30		U
PCB Congener # 40 and/or 41,71	U	100	"		U			30		U
PCB Congener # 42	U	100	"		U			30		U
PCB Congener # 43	U	100	"		U			30		U
PCB Congener # 44 and/or 47,65	U	100	"		U			30		U
PCB Congener # 45 and/or 51	U	100	"		U			30		U
PCB Congener # 46	U	100	"		U			30		U
PCB Congener # 48	U	100	"		U			30		U
PCB Congener # 49 and/or 69	U	100	"		U			30		U
PCB Congener # 50 and/or 53	U	100	"		U			30		U
PCB Congener # 52	U	100	"		U			30		U
PCB Congener # 54	U	100	"		U			30		U
PCB Congener # 55	U	100	"		U			30		U
PCB Congener # 56	U	100	"		U			30		U
PCB Congener # 57	U	100	"		U			30		U
PCB Congener # 58	U	100	"		U			30		U
PCB Congener # 59 and/or 62,75	U	100	"		U			30		U
PCB Congener # 60	U	100	"		U			30		U
PCB Congener # 61 and/or 70,74,76	U	100	"		U			30		U
PCB Congener # 63	U	100	"		U			30		U
PCB Congener # 64	U	100	"		U			30		U
PCB Congener # 66	U	100	"		U			30		U
PCB Congener # 67	U	100	"		U			30		U
PCB Congener # 68	U	100	"		U			30		U
PCB Congener # 72	U	100	"		U			30		U
PCB Congener # 73	U	100	"		U			30		U
PCB Congener # 77	U	100	"		U			30		U
PCB Congener # 78	U	100	"		U			30		U
PCB Congener # 79	U	100	"		U			30		U
PCB Congener # 80	U	100	"		U			30		U
PCB Congener # 81	U	100	"		U			30		U
PCB Congener # 82	U	100	"		U			30		U
PCB Congener # 83 and/or 99	U	100	"		U			30		U
PCB Congener # 84	U	100	"		U			30		U
PCB Congener # 85 and/or 116,117	U	100	"		U			30		U
PCB Congener # 86 and/or 87,97,109,119,125	U	100	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**

**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

**Source: E124007-01**

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener # 88 and/or 91	U	100	pg/L		U			30		U
PCB Congener # 89	U	100	"		U			30		U
PCB Congener # 90 and/or 101,113	U	100	"		U			30		U
PCB Congener # 92	U	100	"		U			30		U
PCB Congener # 93 and/or 95,98,100,102	U	100	"		U			30		U
PCB Congener # 94	U	100	"		U			30		U
PCB Congener # 96	U	100	"		U			30		U
PCB Congener #103	U	100	"		U			30		U
PCB Congener #104	U	100	"		U			30		U
PCB Congener #105	U	100	"		U			30		U
PCB Congener #106	U	100	"		U			30		U
PCB Congener #107	U	100	"		U			30		U
PCB Congener #108 and/or 124	U	100	"		U			30		U
PCB Congener #110 and/or 115	U	100	"		U			30		U
PCB Congener #111	U	100	"		U			30		U
PCB Congener #112	U	100	"		U			30		U
PCB Congener #114	U	100	"		U			30		U
PCB Congener #118	U	100	"		U			30		U
PCB Congener #120	U	100	"		U			30		U
PCB Congener #121	U	100	"		U			30		U
PCB Congener #122	U	100	"		U			30		U
PCB Congener #123	U	100	"		U			30		U
PCB Congener #126	U	100	"		U			30		U
PCB Congener #127	U	100	"		U			30		U
PCB Congener #128 and/or 166	U	100	"		U			30		U
PCB Congener #129 and/or 138,160,163	U	100	"		U			30		U
PCB Congener #130	U	100	"		U			30		U
PCB Congener #131	U	100	"		U			30		U
PCB Congener #132	U	100	"		U			30		U
PCB Congener #133	U	100	"		U			30		U
PCB Congener #134 and/or 143	U	100	"		U			30		U
PCB Congener #135 and/or 151,154	U	100	"		U			30		U
PCB Congener #136	U	100	"		U			30		U
PCB Congener #137	U	100	"		U			30		U
PCB Congener #139 and/or 140	U	100	"		U			30		U
PCB Congener #141	U	100	"		U			30		U
PCB Congener #142	U	100	"		U			30		U
PCB Congener #144	U	100	"		U			30		U
PCB Congener #145	U	100	"		U			30		U
PCB Congener #146	U	100	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**Duplicate (1210112-DUP1)**

Source: E124007-01

Prepared: 10/17/12 Analyzed: 11/01/12

PCB Congener #147 and/or 149	U	100	pg/L		U			30		U
PCB Congener #148	U	100	"		U			30		U
PCB Congener #150	U	100	"		U			30		U
PCB Congener #152	U	100	"		U			30		U
PCB Congener #153 and/or 168	U	100	"		U			30		U
PCB Congener #155	U	100	"		U			30		U
PCB Congener #156 and/or 157	U	100	"		U			30		U
PCB Congener #158	U	100	"		U			30		U
PCB Congener #159	U	100	"		U			30		U
PCB Congener #161	U	100	"		U			30		U
PCB Congener #162	U	100	"		U			30		U
PCB Congener #164	U	100	"		U			30		U
PCB Congener #165	U	100	"		U			30		U
PCB Congener #167	U	100	"		U			30		U
PCB Congener #169	U	100	"		U			30		U
PCB Congener #170	U	100	"		U			30		U
PCB Congener #171 and/or 173	U	100	"		U			30		U
PCB Congener #172	U	100	"		U			30		U
PCB Congener #174	U	100	"		U			30		U
PCB Congener #175	U	100	"		U			30		U
PCB Congener #176	U	100	"		U			30		U
PCB Congener #177	U	100	"		U			30		U
PCB Congener #178	U	100	"		U			30		U
PCB Congener #179	U	100	"		U			30		U
PCB Congener #180 and/or 193	U	100	"		U			30		U
PCB Congener #181	U	100	"		U			30		U
PCB Congener #182	U	100	"		U			30		U
PCB Congener #183 and/or 185	U	100	"		U			30		U
PCB Congener #184	U	100	"		U			30		U
PCB Congener #186	U	100	"		U			30		U
PCB Congener #187	U	100	"		U			30		U
PCB Congener #188	U	100	"		U			30		U
PCB Congener #189	U	100	"		U			30		U
PCB Congener #190	U	100	"		U			30		U
PCB Congener #191	U	100	"		U			30		U
PCB Congener #192	U	100	"		U			30		U
PCB Congener #194	U	100	"		U			30		U
PCB Congener #195	U	100	"		U			30		U
PCB Congener #196	U	100	"		U			30		U
PCB Congener #197 and/or 200	U	100	"		U			30		U





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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

Duplicate (1210112-DUP1)	Source: E124007-01			Prepared: 10/17/12	Analyzed: 11/01/12					
PCB Congener #198 and/or 199	U	100	pg/L	U				30		U
PCB Congener #201	U	100	"	U				30		U
PCB Congener #202	U	100	"	U				30		U
PCB Congener #203	U	100	"	U				30		U
PCB Congener #204	U	100	"	U				30		U
PCB Congener #205	U	100	"	U				30		U
PCB Congener #206	U	170	"	U				30		B-2, U
PCB Congener #207	U	100	"	U				30		U
PCB Congener #208	U	100	"	U				30		U
PCB Congener #209	U	500	"	U				30		J, QI-1, U

**MRL Verification (1210112-PS1)**

Prepared: 10/17/12 Analyzed: 11/01/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	489.60		pg/L	2000.0	24.5	15-140				
Surrogate: <sup>13</sup> C PCB Congener # 3L	579.40		"	2000.0	29.0	15-140				
Surrogate: <sup>13</sup> C PCB Congener # 4L	611.20		"	2000.0	30.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 15L	842.00		"	2000.0	42.1	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 19L	659.60		"	2000.0	33.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 37L	1165.2		"	2000.0	58.3	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 54L	1021.0		"	2000.0	51.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 77L	1447.8		"	2000.0	72.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 81L	1195.4		"	2000.0	59.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 104L	1039.4		"	2000.0	52.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 105L	1007.2		"	2000.0	50.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 114L	1116.4		"	2000.0	55.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 118L	1034.0		"	2000.0	51.7	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 123L	1208.6		"	2000.0	60.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 126L	1224.6		"	2000.0	61.2	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 155L	934.60		"	2000.0	46.7	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2987.0		"	4000.0	74.7	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 167L	1455.0		"	2000.0	72.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 169L	1688.8		"	2000.0	84.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 188L	937.80		"	2000.0	46.9	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 189L	1190.6		"	2000.0	59.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 202L	956.60		"	2000.0	47.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 205L	927.20		"	2000.0	46.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 206L	1120.6		"	2000.0	56.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 208L	883.80		"	2000.0	44.2	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 209L	732.80		"	2000.0	36.6	30-140				



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210112 - E 1668**

**MRL Verification (1210112-PS1)**

Prepared: 10/17/12 Analyzed: 11/01/12

Surrogate: <sup>13</sup> C PCB Congener # 28L	1188.6		pg/L	1960.0		60.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1328.6		"	1940.0		68.5	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1408.4		"	1820.0		77.4	40-125			
PCB Congener # 1	120	100	"	100.00		118	30-170			MRL-2
PCB Congener # 3	110	100	"	100.00		110	30-170			MRL-2
PCB Congener # 4	130	100	"	100.00		134	30-170			MRL-2
PCB Congener # 15	170	100	"	100.00		167	30-170			MRL-2
PCB Congener # 19	86	100	"	100.00		85.8	30-170			MRL-2, Q-2, J
PCB Congener # 37	120	100	"	100.00		115	30-170			MRL-2
PCB Congener # 54	110	100	"	100.00		106	30-170			MRL-2
PCB Congener # 77	110	100	"	100.00		108	30-170			MRL-2
PCB Congener # 81	120	100	"	100.00		115	30-170			MRL-2
PCB Congener #104	94	100	"	100.00		93.8	30-170			MRL-2, Q-2, J
PCB Congener #105	120	100	"	100.00		119	30-170			MRL-2
PCB Congener #114	87	100	"	100.00		87.4	30-170			MRL-2, Q-2, J
PCB Congener #118	130	100	"	100.00		132	30-170			MRL-2
PCB Congener #123	110	100	"	100.00		111	30-170			MRL-2
PCB Congener #126	100	100	"	100.00		101	30-170			MRL-2
PCB Congener #155	90	100	"	100.00		89.8	30-170			MRL-2, Q-2, J
PCB Congener #156 and/or 157	240	100	"	200.00		118	30-170			MRL-2
PCB Congener #167	100	100	"	100.00		104	30-170			MRL-2
PCB Congener #169	100	100	"	100.00		99.8	30-170			MRL-2, Q-2
PCB Congener #188	88	100	"	100.00		88.0	30-170			MRL-2, Q-2, J
PCB Congener #189	120	100	"	100.00		122	30-170			MRL-2
PCB Congener #202	150	100	"	100.00		147	30-170			MRL-2
PCB Congener #205	110	100	"	100.00		109	30-170			MRL-2
PCB Congener #206	440	100	"	100.00		445	30-170			MRL-2, QR-2
PCB Congener #208	200	100	"	100.00		204	30-170			MRL-2, QR-2
PCB Congener #209	970	500	"	500.00		195	30-170			MRL-2, QR-2



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	86.700		ng/kg	200.00		43.4	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	90.340		"	200.00		45.2	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	109.24		"	200.00		54.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	101.02		"	200.00		50.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	106.26		"	200.00		53.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	116.38		"	200.00		58.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	143.54		"	200.00		71.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	117.00		"	200.00		58.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	82.820		"	200.00		41.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	139.78		"	200.00		69.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	107.68		"	200.00		53.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	104.56		"	200.00		52.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	108.28		"	200.00		54.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	107.48		"	200.00		53.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	67.540		"	200.00		33.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	128.50		"	200.00		64.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	201.60		"	400.00		50.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	108.50		"	200.00		54.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	52.360		"	200.00		26.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	265.62		"	200.00		133	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	120.20		"	200.00		60.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	294.44		"	200.00		147	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	68.720		"	200.00		34.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	232.66		"	200.00		116	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	112.68		"	200.00		56.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	225.84		"	200.00		113	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	203.10		"	196.00		104	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	146.04		"	194.00		75.3	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	167.66		"	182.00		92.1	30-135			
PCB Congener # 1	1.7	10	"							B-3, Q-2, J
PCB Congener # 2	U	10	"							U
PCB Congener # 3	U	10	"							U
PCB Congener # 4	U	10	"							U
PCB Congener # 5	U	10	"							U
PCB Congener # 6	U	10	"							U
PCB Congener # 7	U	10	"							U
PCB Congener # 8	U	10	"							U
PCB Congener # 9	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 10	U	10	ng/kg							U
PCB Congener # 11	U	10	"							U
PCB Congener # 12 and/or 13	U	10	"							U
PCB Congener # 14	U	10	"							U
PCB Congener # 15	4.2	10	"							B-4, Q-2, J
PCB Congener # 16	U	10	"							U
PCB Congener # 17	U	10	"							U
PCB Congener # 18 and/or 30	U	10	"							U
PCB Congener # 19	U	10	"							U
PCB Congener # 20 and/or 28	12	10	"							B-4
PCB Congener # 21 and/or 33	U	10	"							U
PCB Congener # 22	U	10	"							U
PCB Congener # 23	U	10	"							U
PCB Congener # 24	U	10	"							U
PCB Congener # 25	U	10	"							U
PCB Congener # 26 and/or 29	U	10	"							U
PCB Congener # 27	U	10	"							U
PCB Congener # 31	U	10	"							U
PCB Congener # 32	U	10	"							U
PCB Congener # 34	U	10	"							U
PCB Congener # 35	U	10	"							U
PCB Congener # 36	U	10	"							U
PCB Congener # 37	2.6	10	"							B-4, Q-2, J
PCB Congener # 38	U	10	"							U
PCB Congener # 39	U	10	"							U
PCB Congener # 40 and/or 41,71	U	10	"							U
PCB Congener # 42	U	10	"							U
PCB Congener # 43	U	10	"							U
PCB Congener # 44 and/or 47,65	11	10	"							B-4
PCB Congener # 45 and/or 51	U	10	"							U
PCB Congener # 46	U	10	"							U
PCB Congener # 48	U	10	"							U
PCB Congener # 49 and/or 69	U	10	"							U
PCB Congener # 50 and/or 53	U	10	"							U
PCB Congener # 52	16	10	"							B-4
PCB Congener # 54	U	10	"							U
PCB Congener # 55	U	10	"							U
PCB Congener # 56	U	10	"							U
PCB Congener # 57	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 58	U	10	ng/kg							U
PCB Congener # 59 and/or 62,75	U	10	"							U
PCB Congener # 60	U	10	"							U
PCB Congener # 61 and/or 70,74,76	14	10	"							B-4
PCB Congener # 63	U	10	"							U
PCB Congener # 64	U	10	"							U
PCB Congener # 66	U	10	"							U
PCB Congener # 67	U	10	"							U
PCB Congener # 68	U	10	"							U
PCB Congener # 72	U	10	"							U
PCB Congener # 73	U	10	"							U
PCB Congener # 77	U	10	"							U
PCB Congener # 78	U	10	"							U
PCB Congener # 79	U	10	"							U
PCB Congener # 80	U	10	"							U
PCB Congener # 81	U	10	"							U
PCB Congener # 82	U	10	"							U
PCB Congener # 83 and/or 99	U	10	"							U
PCB Congener # 84	U	10	"							U
PCB Congener # 85 and/or 116,117	U	10	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	10	"							U
PCB Congener # 88 and/or 91	U	10	"							U
PCB Congener # 89	U	10	"							U
PCB Congener # 90 and/or 101,113	13	10	"							B-4
PCB Congener # 92	U	10	"							U
PCB Congener # 93 and/or 95,98,100,102	U	10	"							U
PCB Congener # 94	U	10	"							U
PCB Congener # 96	U	10	"							U
PCB Congener #103	U	10	"							U
PCB Congener #104	U	10	"							U
PCB Congener #105	4.6	10	"							B-4, Q-2, J
PCB Congener #106	U	10	"							U
PCB Congener #107	U	10	"							U
PCB Congener #108 and/or 124	U	10	"							U
PCB Congener #110 and/or 115	12	10	"							B-4
PCB Congener #111	U	10	"							U
PCB Congener #112	U	10	"							U
PCB Congener #114	U	10	"							U
PCB Congener #118	11	10	"							B-3



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener #120	U	10	ng/kg							U
PCB Congener #121	U	10	"							U
PCB Congener #122	U	10	"							U
PCB Congener #123	U	10	"							U
PCB Congener #126	U	10	"							U
PCB Congener #127	U	10	"							U
PCB Congener #128 and/or 166	U	10	"							U
PCB Congener #129 and/or 138,160,163	17	10	"							B-4
PCB Congener #130	U	10	"							U
PCB Congener #131	U	10	"							U
PCB Congener #132	U	10	"							U
PCB Congener #133	U	10	"							U
PCB Congener #134 and/or 143	U	10	"							U
PCB Congener #135 and/or 151,154	U	10	"							U
PCB Congener #136	U	10	"							U
PCB Congener #137	U	10	"							U
PCB Congener #139 and/or 140	U	10	"							U
PCB Congener #141	U	10	"							U
PCB Congener #142	U	10	"							U
PCB Congener #144	U	10	"							U
PCB Congener #145	U	10	"							U
PCB Congener #146	U	10	"							U
PCB Congener #147 and/or 149	U	10	"							U
PCB Congener #148	U	10	"							U
PCB Congener #150	U	10	"							U
PCB Congener #152	U	10	"							U
PCB Congener #153 and/or 168	17	10	"							B-4
PCB Congener #155	U	10	"							U
PCB Congener #156 and/or 157	U	10	"							U
PCB Congener #158	U	10	"							U
PCB Congener #159	U	10	"							U
PCB Congener #161	U	10	"							U
PCB Congener #162	U	10	"							U
PCB Congener #164	U	10	"							U
PCB Congener #165	U	10	"							U
PCB Congener #167	0.98	10	"							B-3, Q-2, J
PCB Congener #169	U	10	"							U
PCB Congener #170	U	10	"							U
PCB Congener #171 and/or 173	U	10	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Blank (1210127-BLK1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener #172	U	10	ng/kg							U
PCB Congener #174	U	10	"							U
PCB Congener #175	U	10	"							U
PCB Congener #176	U	10	"							U
PCB Congener #177	U	10	"							U
PCB Congener #178	U	10	"							U
PCB Congener #179	U	10	"							U
PCB Congener #180 and/or 193	U	10	"							U
PCB Congener #181	U	10	"							U
PCB Congener #182	U	10	"							U
PCB Congener #183 and/or 185	U	10	"							U
PCB Congener #184	U	10	"							U
PCB Congener #186	U	10	"							U
PCB Congener #187	U	10	"							U
PCB Congener #188	U	10	"							U
PCB Congener #189	U	10	"							U
PCB Congener #190	U	10	"							U
PCB Congener #191	U	10	"							U
PCB Congener #192	U	10	"							U
PCB Congener #194	U	10	"							U
PCB Congener #195	U	10	"							U
PCB Congener #196	U	10	"							U
PCB Congener #197 and/or 200	U	10	"							U
PCB Congener #198 and/or 199	U	10	"							U
PCB Congener #201	U	10	"							U
PCB Congener #202	2.9	10	"							B-3, Q-2, J
PCB Congener #203	U	10	"							U
PCB Congener #204	U	10	"							U
PCB Congener #205	U	10	"							U
PCB Congener #206	24	10	"							B-4
PCB Congener #207	U	10	"							U
PCB Congener #208	8.7	10	"							B-3, Q-2, J
PCB Congener #209	6.0	20	"							B-3, Q-2, J



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**LCS (1210127-BS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	88.591		ng/kg	199.80		44.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	90.310		"	199.80		45.2	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	103.04		"	199.80		51.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	91.588		"	199.80		45.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	103.34		"	199.80		51.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	106.75		"	199.80		53.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	129.65		"	199.80		64.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	81.818		"	199.80		41.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	68.012		"	199.80		34.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	88.731		"	199.80		44.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	92.088		"	199.80		46.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	67.113		"	199.80		33.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	89.930		"	199.80		45.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	79.081		"	199.80		39.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	64.436		"	199.80		32.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	94.865		"	199.80		47.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	159.20		"	399.60		39.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	81.419		"	199.80		40.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	69.031		"	199.80		34.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	243.86		"	199.80		122	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	83.357		"	199.80		41.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	80.220		"	199.80		40.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	60.260		"	199.80		30.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	180.08		"	199.80		90.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	77.622		"	199.80		38.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	198.42		"	199.80		99.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	221.80		"	195.80		113	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	115.50		"	193.81		59.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	197.44		"	181.82		109	40-125			
PCB Congener # 1	110	10	"	99.900		111	50-150			
PCB Congener # 3	110	10	"	99.900		110	50-150			
PCB Congener # 4	100	10	"	99.900		101	50-150			
PCB Congener # 15	140	10	"	99.900		135	50-150			
PCB Congener # 19	90	10	"	99.900		90.5	50-150			
PCB Congener # 37	100	10	"	99.900		100	50-150			
PCB Congener # 54	90	10	"	99.900		90.6	50-150			
PCB Congener # 77	120	10	"	99.900		118	50-150			
PCB Congener # 81	110	10	"	99.900		106	50-150			





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**LCS (1210127-BS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener #104	100	10	ng/kg	99.900	105	50-150
PCB Congener #105	110	10	"	99.900	110	50-150
PCB Congener #114	110	10	"	99.900	108	50-150
PCB Congener #118	120	10	"	99.900	119	50-150
PCB Congener #123	120	10	"	99.900	119	50-150
PCB Congener #126	79	50	"	99.900	79.2	50-150
PCB Congener #155	100	10	"	99.900	103	50-150
PCB Congener #156 and/or 157	230	10	"	199.80	114	50-150
PCB Congener #167	110	10	"	99.900	111	50-150
PCB Congener #169	79	50	"	99.900	78.8	50-150
PCB Congener #188	92	10	"	99.900	92.5	50-150
PCB Congener #189	120	10	"	99.900	118	50-150
PCB Congener #202	100	50	"	99.900	100	50-150
PCB Congener #205	120	10	"	99.900	118	50-150
PCB Congener #206	140	50	"	99.900	136	50-150
PCB Congener #208	110	10	"	99.900	106	50-150
PCB Congener #209	140	20	"	99.900	144	50-150

**Duplicate (1210127-DUP1)**

Source: E124007-07

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	94.206		ng/kg	199.80	47.2	15-150
Surrogate: <sup>13</sup> C PCB Congener # 3L	95.385		"	199.80	47.7	15-150
Surrogate: <sup>13</sup> C PCB Congener # 4L	121.34		"	199.80	60.7	25-150
Surrogate: <sup>13</sup> C PCB Congener # 15L	112.71		"	199.80	56.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 19L	102.20		"	199.80	51.2	25-150
Surrogate: <sup>13</sup> C PCB Congener # 37L	117.20		"	199.80	58.7	25-150
Surrogate: <sup>13</sup> C PCB Congener # 54L	171.35		"	199.80	85.8	25-150
Surrogate: <sup>13</sup> C PCB Congener # 77L	128.55		"	199.80	64.3	25-150
Surrogate: <sup>13</sup> C PCB Congener # 81L	80.919		"	199.80	40.5	25-150
Surrogate: <sup>13</sup> C PCB Congener # 104L	122.60		"	199.80	61.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 105L	99.201		"	199.80	49.6	25-150
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.62		"	199.80	50.9	25-150
Surrogate: <sup>13</sup> C PCB Congener # 118L	111.79		"	199.80	55.9	25-150
Surrogate: <sup>13</sup> C PCB Congener # 123L	106.73		"	199.80	53.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 126L	69.690		"	199.80	34.9	25-150
Surrogate: <sup>13</sup> C PCB Congener # 155L	122.30		"	199.80	61.2	25-150
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	212.47		"	399.60	53.2	25-150
Surrogate: <sup>13</sup> C PCB Congener # 167L	118.70		"	199.80	59.4	25-150
Surrogate: <sup>13</sup> C PCB Congener # 169L	88.412		"	199.80	44.2	25-150



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/30/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	168.33		ng/kg	199.80		84.3	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	127.17		"	199.80		63.6	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	161.04		"	199.80		80.6	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	85.714		"	199.80		42.9	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	177.92		"	199.80		89.1	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	131.87		"	199.80		66.0	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	147.85		"	199.80		74.0	25-150			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	173.77		"	195.80		88.7	30-135			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	139.22		"	193.81		71.8	30-135			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	155.48		"	181.82		85.5	30-135			
PCB Congener # 1	U	10	"		U				30	U
PCB Congener # 2	U	10	"		U				30	U
PCB Congener # 3	U	10	"		U				30	U
PCB Congener # 4	14	10	"		13			3.72	30	
PCB Congener # 5	U	10	"		U				30	U
PCB Congener # 6	U	10	"		U				30	U
PCB Congener # 7	U	10	"		U				30	U
PCB Congener # 8	U	10	"		U				30	U
PCB Congener # 9	U	10	"		U				30	U
PCB Congener # 10	U	10	"		U				30	U
PCB Congener # 11	U	10	"		U				30	U
PCB Congener # 12 and/or 13	U	10	"		U				30	U
PCB Congener # 14	U	10	"		U				30	U
PCB Congener # 15	U	14	"		U				30	B-2, U
PCB Congener # 16	10	10	"		U				30	
PCB Congener # 17	41	10	"		34			18.5	30	
PCB Congener # 18 and/or 30	U	34	"		U				30	B-5, U
PCB Congener # 19	9.4	10	"		8.5			10.0	30	J, Q-2
PCB Congener # 20 and/or 28	140	10	"		140			2.43	30	
PCB Congener # 21 and/or 33	10	10	"		U				30	
PCB Congener # 22	20	10	"		17			15.9	30	
PCB Congener # 23	U	10	"		U				30	U
PCB Congener # 24	U	10	"		U				30	U
PCB Congener # 25	U	10	"		U				30	U
PCB Congener # 26 and/or 29	13	10	"		13			4.65	30	
PCB Congener # 27	11	10	"		U				30	
PCB Congener # 31	70	10	"		70			0.856	30	
PCB Congener # 32	16	10	"		14			11.6	30	
PCB Congener # 34	U	10	"		U				30	U
PCB Congener # 35	U	10	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 36	U	10	ng/kg		U				30	U
PCB Congener # 37	12	10	"		U				30	
PCB Congener # 38	U	10	"		U				30	U
PCB Congener # 39	U	10	"		U				30	U
PCB Congener # 40 and/or 41,71	99	10	"		99			0.586	30	
PCB Congener # 42	97	10	"		97			0.591	30	
PCB Congener # 43	U	10	"		11				30	U
PCB Congener # 44 and/or 47,65	650	10	"		710			9.40	30	
PCB Congener # 45 and/or 51	31	10	"		28			11.2	30	
PCB Congener # 46	U	10	"		U				30	U
PCB Congener # 48	32	10	"		41			26.0	30	
PCB Congener # 49 and/or 69	410	10	"		480			15.0	30	
PCB Congener # 50 and/or 53	50	10	"		55			9.68	30	
PCB Congener # 52	680	10	"		750			9.11	30	
PCB Congener # 54	U	10	"		U				30	U
PCB Congener # 55	U	10	"		U				30	U
PCB Congener # 56	100	10	"		97			5.72	30	
PCB Congener # 57	U	10	"		U				30	U
PCB Congener # 58	U	10	"		U				30	U
PCB Congener # 59 and/or 62,75	54	10	"		49			8.07	30	
PCB Congener # 60	65	10	"		64			2.49	30	
PCB Congener # 61 and/or 70,74,76	750	10	"		760			0.588	30	
PCB Congener # 63	38	10	"		39			0.683	30	
PCB Congener # 64	190	10	"		180			6.70	30	
PCB Congener # 66	700	10	"		700			0.118	30	
PCB Congener # 67	11	10	"		11			3.40	30	
PCB Congener # 68	U	10	"		27				30	U
PCB Congener # 72	25	10	"		25			1.01	30	
PCB Congener # 73	U	10	"		U				30	U
PCB Congener # 77	27	10	"		28			6.24	30	
PCB Congener # 78	U	10	"		U				30	U
PCB Congener # 79	U	10	"		U				30	U
PCB Congener # 80	U	10	"		U				30	U
PCB Congener # 81	U	10	"		U				30	U
PCB Congener # 82	66	10	"		66			0.949	30	
PCB Congener # 83 and/or 99	1900	10	"		1700			13.8	30	
PCB Congener # 84	94	10	"		98			4.19	30	
PCB Congener # 85 and/or 116,117	360	10	"		410			13.8	30	
PCB Congener # 86 and/or 87,97,109,119,125	810	10	"		840			2.84	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**Duplicate (1210127-DUP1)**

**Source: E124007-07**

Prepared: 10/18/12 Analyzed: 10/25/12

PCB Congener # 88 and/or 91	180	10	ng/kg		190			8.08	30	
PCB Congener # 89	U	10	"		U				30	U
PCB Congener # 90 and/or 101,113	1800	10	"		1800		1.81		30	
PCB Congener # 92	460	10	"		460		0.788		30	
PCB Congener # 93 and/or 95,98,100,102	630	10	"		680		7.79		30	
PCB Congener # 94	U	10	"		U				30	U
PCB Congener # 96	U	10	"		U				30	U
PCB Congener #103	32	10	"		31		3.69		30	
PCB Congener #104	U	10	"		U				30	U
PCB Congener #105	630	10	"		610		4.58		30	
PCB Congener #106	U	10	"		U				30	U
PCB Congener #107	190	10	"		170		8.79		30	
PCB Congener #108 and/or 124	44	10	"		38		13.5		30	
PCB Congener #110 and/or 115	1500	10	"		1500		3.69		30	
PCB Congener #111	U	10	"		U				30	U
PCB Congener #112	U	10	"		U				30	U
PCB Congener #114	39	10	"		40		2.89		30	
PCB Congener #118	2100	10	"		2000		6.22		30	
PCB Congener #120	31	10	"		24		25.0		30	
PCB Congener #121	U	10	"		U				30	U
PCB Congener #122	U	10	"		U				30	U
PCB Congener #123	34	10	"		31		9.41		30	
PCB Congener #126	U	10	"		U				30	U
PCB Congener #127	U	10	"		U				30	U
PCB Congener #128 and/or 166	550	50	"		460		17.4		30	
PCB Congener #129 and/or 138,160,163	4200	50	"		3700		14.5		30	
PCB Congener #130	210	50	"		180		16.1		30	
PCB Congener #131	U	50	"		U				30	U
PCB Congener #132	290	50	"		250		17.8		30	
PCB Congener #133	110	50	"		79		31.5		30	J, QM-4
PCB Congener #134 and/or 143	53	50	"		U				30	
PCB Congener #135 and/or 151,154	1300	50	"		1000		27.9		30	
PCB Congener #136	72	50	"		63		13.0		30	
PCB Congener #137	150	50	"		120		24.4		30	
PCB Congener #139 and/or 140	81	50	"		67		18.9		30	
PCB Congener #141	310	50	"		260		16.0		30	
PCB Congener #142	U	50	"		U				30	U
PCB Congener #144	95	50	"		87		8.23		30	
PCB Congener #145	U	50	"		U				30	U
PCB Congener #146	950	50	"		800		16.4		30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1210127 - E 1668</b>										
<b>Duplicate (1210127-DUP1)</b>	<b>Source: E124007-07</b>			Prepared: 10/18/12		Analyzed: 10/30/12				
PCB Congener #147 and/or 149	2300	50	ng/kg		1700			29.7	30	
PCB Congener #148	U	50	"		U				30	U
PCB Congener #150	U	50	"		U				30	U
PCB Congener #152	U	50	"		U				30	U
PCB Congener #153 and/or 168	4800	50	"		4100			16.4	30	
PCB Congener #155	82	10	"		79			2.90	30	
PCB Congener #156 and/or 157	320	10	"		280			10.4	30	
PCB Congener #158	290	50	"		250			14.7	30	
PCB Congener #159	U	50	"		U				30	U
PCB Congener #161	U	50	"		U				30	U
PCB Congener #162	U	50	"		U				30	U
PCB Congener #164	160	50	"		130			20.6	30	
PCB Congener #165	U	50	"		U				30	U
PCB Congener #167	140	10	"		130			7.89	30	
PCB Congener #169	U	50	"		U				30	U
PCB Congener #170	410	50	"		410			1.14	30	
PCB Congener #171 and/or 173	150	50	"		140			7.48	30	
PCB Congener #172	97	50	"		89			9.21	30	
PCB Congener #174	220	50	"		200			9.41	30	
PCB Congener #175	U	50	"		U				30	U
PCB Congener #176	U	50	"		U				30	U
PCB Congener #177	210	50	"		200			3.37	30	
PCB Congener #178	240	50	"		230			7.48	30	
PCB Congener #179	100	50	"		90			13.6	30	
PCB Congener #180 and/or 193	1000	50	"		1100			4.80	30	
PCB Congener #181	U	50	"		U				30	U
PCB Congener #182	U	50	"		U				30	U
PCB Congener #183 and/or 185	560	50	"		470			18.7	30	
PCB Congener #184	100	50	"		94			9.35	30	
PCB Congener #186	U	50	"		U				30	U
PCB Congener #187	1600	50	"		1500			8.59	30	
PCB Congener #188	6.1	50	"		U				30	J, Q-2
PCB Congener #189	25	50	"		18			30.5	30	J, Q-2, QM-4
PCB Congener #190	90	50	"		120			27.7	30	
PCB Congener #191	U	50	"		U				30	U
PCB Congener #192	U	50	"		U				30	U
PCB Congener #194	130	50	"		140			6.06	30	
PCB Congener #195	79	50	"		75			4.84	30	
PCB Congener #196	64	50	"		120			58.3	30	J, QM-4



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 13-0025, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

Duplicate (1210127-DUP1)	Source: E124007-07			Prepared: 10/18/12	Analyzed: 10/30/12					
PCB Congener #197 and/or 200	U	50	ng/kg		U				30	U
PCB Congener #198 and/or 199	520	50	"		500		2.55		30	
PCB Congener #201	74	50	"		53		34.2		30	J, QM-4
PCB Congener #202	260	50	"		240		5.94		30	
PCB Congener #203	540	50	"		460		16.1		30	
PCB Congener #204	U	50	"		U				30	U
PCB Congener #205	20	50	"		19		7.79		30	J, Q-2
PCB Congener #206	460	50	"		370		21.0		30	
PCB Congener #207	U	50	"		U				30	U
PCB Congener #208	180	50	"		150		21.3		30	
PCB Congener #209	240	100	"		240		1.20		30	

**MRL Verification (1210127-PS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	94.312		ng/kg	201.00	46.9	15-140				
Surrogate: <sup>13</sup> C PCB Congener # 3L	102.73		"	201.00	51.1	15-140				
Surrogate: <sup>13</sup> C PCB Congener # 4L	116.00		"	201.00	57.7	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 15L	111.26		"	201.00	55.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 19L	99.357		"	201.00	49.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 37L	107.02		"	201.00	53.2	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 54L	118.59		"	201.00	59.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 77L	102.17		"	201.00	50.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 81L	69.648		"	201.00	34.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 104L	126.29		"	201.00	62.8	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 105L	96.302		"	201.00	47.9	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 114L	101.13		"	201.00	50.3	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 118L	98.513		"	201.00	49.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 123L	85.387		"	201.00	42.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 126L	65.427		"	201.00	32.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 155L	127.86		"	201.00	63.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	219.04		"	402.01	54.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 167L	111.76		"	201.00	55.6	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 169L	65.025		"	201.00	32.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 188L	99.397		"	201.00	49.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 189L	93.367		"	201.00	46.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 202L	95.276		"	201.00	47.4	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 205L	71.337		"	201.00	35.5	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 206L	158.69		"	201.00	79.0	30-140				
Surrogate: <sup>13</sup> C PCB Congener # 208L	74.050		"	201.00	36.8	30-140				



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1210127 - E 1668**

**MRL Verification (1210127-PS1)**

Prepared: 10/18/12 Analyzed: 10/25/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	214.87		ng/kg	201.00		107	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	208.74		"	196.98		106	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	155.10		"	194.97		79.5	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	219.74		"	182.91		120	40-125			
PCB Congener # 1	13	10	"	10.050		130	30-170			MRL-4
PCB Congener # 3	12	10	"	10.050		115	30-170			MRL-4
PCB Congener # 4	13	10	"	10.050		130	30-170			MRL-4
PCB Congener # 15	17	10	"	10.050		167	30-170			MRL-4
PCB Congener # 19	10	10	"	10.050		103	30-170			MRL-4
PCB Congener # 37	13	10	"	10.050		129	30-170			MRL-4
PCB Congener # 54	9.6	10	"	10.050		95.8	30-170			MRL-4, Q-2, J
PCB Congener # 77	11	10	"	10.050		113	30-170			MRL-4
PCB Congener # 81	9.8	50	"	10.050		98.0	30-170			MRL-4, Q-2, J
PCB Congener #104	8.1	10	"	10.050		80.8	30-170			MRL-4, Q-2, J
PCB Congener #105	14	10	"	10.050		138	30-170			MRL-4
PCB Congener #114	9.0	10	"	10.050		89.6	30-170			MRL-4, Q-2, J
PCB Congener #118	22	10	"	10.050		221	30-170			MRL-4, QR-2
PCB Congener #123	11	10	"	10.050		113	30-170			MRL-4
PCB Congener #126	11	50	"	10.050		113	30-170			MRL-4, Q-2, J
PCB Congener #155	7.2	10	"	10.050		71.8	30-170			MRL-4, Q-2, J
PCB Congener #156 and/or 157	24	10	"	20.100		118	30-170			MRL-4
PCB Congener #167	9.9	10	"	10.050		98.8	30-170			MRL-4, Q-2, J
PCB Congener #169	10	50	"	10.050		102	30-170			MRL-4, Q-2, J
PCB Congener #188	7.2	50	"	10.050		72.0	30-170			MRL-4, Q-2, J
PCB Congener #189	13	10	"	10.050		128	30-170			MRL-4
PCB Congener #202	13	50	"	10.050		129	30-170			MRL-4, Q-2, J
PCB Congener #205	10	10	"	10.050		102	30-170			MRL-4
PCB Congener #206	37	10	"	10.050		372	30-170			MRL-4, QR-2
PCB Congener #208	14	10	"	10.050		144	30-170			MRL-4
PCB Congener #209	25	20	"	20.100		125	30-170			MRL-4



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**Physical Properties (PHYSP) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1210135 - E 3550 Tissue</b>										
<b>Blank (1210135-BLK1)</b>										
					Prepared: 10/22/12 Analyzed: 10/23/12					
<b>ASB E100</b>										
% Lipids	0.0		%							
<b>Duplicate (1210135-DUP1)</b>										
			Source: E124007-07		Prepared: 10/22/12 Analyzed: 10/23/12					
<b>ASB E100</b>										
% Lipids	1.1		%		1.1			0.00	20	





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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- B-5 Qualitative evidence of contamination in the blank at a concentration less than the MDL.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- MRL-4 MRL verification for Tissue matrix
- Q-2 Result greater than MDL but less than MRL.
- QI-1 Internal standard was outside of method control limits.
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QM-4 Matrix Precision outside method control limits
- QR-2 MRL verification recovery greater than upper control limits.



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**October 27, 2012**

**4SESD-ASB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
 Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa  
 Superfund Emergency Response and Removal

**FROM:** Sallie Hale  
 ASB Organic Chemistry Section Chief

**THRU:** Gary Bennett, Chief  
 Analytical Support Branch

**TO:** Ken Rhame

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
<b>PCB Congeners (PCBC)</b> PCB Congeners	EPA 1668A (Water)	None



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**Sample Disposal Policy**

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at [Colquitt.Debbie@epa.gov](mailto:Colquitt.Debbie@epa.gov), and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Received</b>
YR-01	E114204-01	Rinse Water Blank	10/11/11 10:30	10/13/11 9:55
YR-02	E114204-02	Equipment Rinse Blank	10/11/11 14:30	10/13/11 9:55
BB-011312	E123505-01	Equipment Rinse Blank	1/13/12 09:00	8/30/12 14:21
BB-091911	E123505-02	Equipment Rinse Blank	9/19/11 09:00	8/30/12 14:21
BB-092011	E123505-03	Equipment Rinse Blank	9/20/11 09:00	8/30/12 14:21
BB-092611	E123505-04	Equipment Rinse Blank	9/26/11 09:00	8/30/12 14:21
BB-092911	E123505-05	Equipment Rinse Blank	9/29/11 09:00	8/30/12 14:21
BB-111711	E123505-06	Equipment Rinse Blank	11/17/11 09:00	8/30/12 14:21
BB-111811	E123505-07	Equipment Rinse Blank	11/18/11 09:00	8/30/12 14:21
BB-120711	E123505-08	Equipment Rinse Blank	12/7/11 09:00	8/30/12 14:21
BB-120811	E123505-09	Equipment Rinse Blank	12/8/11 09:00	8/30/12 14:21
BB-121611	E123505-10	Equipment Rinse Blank	12/16/11 09:00	8/30/12 14:21
DIB-011312	E123505-11	Dry Ice Blank	1/13/12 09:00	8/30/12 14:21
DIB-091911	E123505-12	Dry Ice Blank	9/19/11 09:00	8/30/12 14:21
DIB-092611	E123505-13	Dry Ice Blank	9/26/11 09:00	8/30/12 14:21
DIB-111711	E123505-14	Dry Ice Blank	11/17/11 09:00	8/30/12 14:21
DIB-112111	E123505-15	Dry Ice Blank	11/21/11 09:00	8/30/12 14:21
DIB-120711	E123505-16	Dry Ice Blank	12/7/11 09:00	8/30/12 14:21
DIB-121611	E123505-17	Dry Ice Blank	12/16/11 09:00	8/30/12 14:21



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### DATA QUALIFIER DEFINITIONS

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- Q-2 Result greater than MDL but less than MRL.
- QI-1 Internal standard was outside of method control limits.

### ACRONYMS AND ABBREVIATIONS

- CAS Chemical Abstracts Service  
Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
- ISO The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
- MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
- MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
- TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-01

Lab ID: E114204-01

Station ID:

Matrix: Rinse Water Blank

Date Collected: 10/11/11 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2051-61-8	PCB Congener # 2	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2051-62-9	PCB Congener # 3	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
13029-08-8	PCB Congener # 4	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
16605-91-7	PCB Congener # 5	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
25569-80-6	PCB Congener # 6	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33284-50-3	PCB Congener # 7	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
34883-43-7	PCB Congener # 8	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
34883-39-1	PCB Congener # 9	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33146-45-1	PCB Congener # 10	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2050-67-1	PCB Congener # 11	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
34883-41-5	PCB Congener # 14	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2050-68-2	PCB Congener # 15	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-78-9	PCB Congener # 16	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
37680-66-3	PCB Congener # 17	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-73-4	PCB Congener # 19	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-85-8	PCB Congener # 22	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
55720-44-0	PCB Congener # 23	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
55702-45-9	PCB Congener # 24	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
55712-37-3	PCB Congener # 25	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-76-7	PCB Congener # 27	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
16606-02-3	PCB Congener # 31	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-77-8	PCB Congener # 32	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-01**

**Lab ID: E114204-01**

**Station ID:**

**Matrix: Rinse Water Blank**

**Date Collected: 10/11/11 10:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
37680-69-6	PCB Congener # 35	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-87-0	PCB Congener # 36	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-90-5	PCB Congener # 37	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
53555-66-1	PCB Congener # 38	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38444-88-1	PCB Congener # 39	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
36559-22-5	PCB Congener # 42	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-46-8	PCB Congener # 43	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-47-5	PCB Congener # 46	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-47-9	PCB Congener # 48	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35693-99-3	PCB Congener # 52	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
15968-05-5	PCB Congener # 54	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74338-24-2	PCB Congener # 55	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-43-1	PCB Congener # 56	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70424-67-8	PCB Congener # 57	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-49-7	PCB Congener # 58	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33025-41-1	PCB Congener # 60	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-34-7	PCB Congener # 63	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-58-8	PCB Congener # 64	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32598-10-0	PCB Congener # 66	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-53-8	PCB Congener # 67	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-52-7	PCB Congener # 68	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-01**

**Lab ID: E114204-01**

**Station ID:**

**Matrix: Rinse Water Blank**

**Date Collected: 10/11/11 10:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74338-23-1	PCB Congener # 73	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32598-13-3	PCB Congener # 77	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-49-1	PCB Congener # 78	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41464-48-6	PCB Congener # 79	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
33284-52-5	PCB Congener # 80	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70362-50-4	PCB Congener # 81	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-62-4	PCB Congener # 82	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-60-2	PCB Congener # 84	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-57-2	PCB Congener # 89	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-61-3	PCB Congener # 92	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-55-0	PCB Congener # 94	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
73575-54-9	PCB Congener # 96	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
60145-21-3	PCB Congener #103	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
56558-16-8	PCB Congener #104	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32598-14-4	PCB Congener #105	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70424-69-0	PCB Congener #106	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
70424-68-9	PCB Congener #107	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-32-0	PCB Congener #111	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-36-9	PCB Congener #112	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-01**

**Lab ID: E114204-01**

**Station ID:**

**Matrix: Rinse Water Blank**

**Date Collected: 10/11/11 10:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
31508-00-6	PCB Congener #118	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-12-7	PCB Congener #120	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
56558-18-0	PCB Congener #121	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
76842-07-4	PCB Congener #122	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
65510-44-3	PCB Congener #123	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
57465-28-8	PCB Congener #126	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-33-1	PCB Congener #127	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-66-8	PCB Congener #130	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
61798-70-7	PCB Congener #131	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38380-05-1	PCB Congener #132	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35694-04-3	PCB Congener #133	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38411-22-2	PCB Congener #136	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35694-06-5	PCB Congener #137	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52712-04-6	PCB Congener #141	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41411-61-4	PCB Congener #142	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-14-9	PCB Congener #144	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-40-5	PCB Congener #145	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
51908-16-8	PCB Congener #146	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-41-6	PCB Congener #148	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-08-1	PCB Congener #150	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
68194-09-2	PCB Congener #152	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-01

Lab ID: E114204-01

Station ID:

Matrix: Rinse Water Blank

Date Collected: 10/11/11 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-42-7	PCB Congener #158	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-35-3	PCB Congener #159	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-43-8	PCB Congener #161	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-34-2	PCB Congener #162	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-45-0	PCB Congener #164	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-46-1	PCB Congener #165	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-72-6	PCB Congener #167	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
32774-16-6	PCB Congener #169	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35065-30-6	PCB Congener #170	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-74-8	PCB Congener #172	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
38411-25-5	PCB Congener #174	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
40186-70-7	PCB Congener #175	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-65-7	PCB Congener #176	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-70-4	PCB Congener #177	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-67-9	PCB Congener #178	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-64-6	PCB Congener #179	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-47-2	PCB Congener #181	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
60145-23-5	PCB Congener #182	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-48-3	PCB Congener #184	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-49-4	PCB Congener #186	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-68-0	PCB Congener #187	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74487-85-7	PCB Congener #188	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
39635-31-9	PCB Congener #189	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
41411-64-7	PCB Congener #190	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-01

Lab ID: E114204-01

Station ID:

Matrix: Rinse Water Blank

Date Collected: 10/11/11 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-51-8	PCB Congener #192	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
35694-08-7	PCB Congener #194	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-78-2	PCB Congener #195	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
42740-50-1	PCB Congener #196	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
40186-71-8	PCB Congener #201	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2136-99-4	PCB Congener #202	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-76-0	PCB Congener #203	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-52-9	PCB Congener #204	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
74472-53-0	PCB Congener #205	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
40186-72-9	PCB Congener #206	120	U, B-2	pg/L	120	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-79-3	PCB Congener #207	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
52663-77-1	PCB Congener #208	110	U	pg/L	110	9/07/12 7:57	9/12/12 18:58	EPA 1668A
2051-24-3	PCB Congener #209	550	U	pg/L	550	9/07/12 7:57	9/12/12 18:58	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-02

Lab ID: E114204-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/11/11 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2051-61-8	PCB Congener # 2	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2051-62-9	PCB Congener # 3	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
13029-08-8	PCB Congener # 4	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
16605-91-7	PCB Congener # 5	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
25569-80-6	PCB Congener # 6	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33284-50-3	PCB Congener # 7	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
34883-43-7	PCB Congener # 8	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
34883-39-1	PCB Congener # 9	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33146-45-1	PCB Congener # 10	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2050-67-1	PCB Congener # 11	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
34883-41-5	PCB Congener # 14	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2050-68-2	PCB Congener # 15	33	J, Q-2	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-78-9	PCB Congener # 16	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
37680-66-3	PCB Congener # 17	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-73-4	PCB Congener # 19	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-85-8	PCB Congener # 22	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
55720-44-0	PCB Congener # 23	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
55702-45-9	PCB Congener # 24	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
55712-37-3	PCB Congener # 25	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-76-7	PCB Congener # 27	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
16606-02-3	PCB Congener # 31	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-77-8	PCB Congener # 32	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-02**

**Lab ID: E114204-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/11/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
37680-69-6	PCB Congener # 35	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-87-0	PCB Congener # 36	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-90-5	PCB Congener # 37	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
53555-66-1	PCB Congener # 38	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38444-88-1	PCB Congener # 39	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
36559-22-5	PCB Congener # 42	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-46-8	PCB Congener # 43	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-47-5	PCB Congener # 46	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-47-9	PCB Congener # 48	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35693-99-3	PCB Congener # 52	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
15968-05-5	PCB Congener # 54	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74338-24-2	PCB Congener # 55	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-43-1	PCB Congener # 56	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70424-67-8	PCB Congener # 57	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-49-7	PCB Congener # 58	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33025-41-1	PCB Congener # 60	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-34-7	PCB Congener # 63	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-58-8	PCB Congener # 64	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32598-10-0	PCB Congener # 66	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-53-8	PCB Congener # 67	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-52-7	PCB Congener # 68	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-02**

**Lab ID: E114204-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/11/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74338-23-1	PCB Congener # 73	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32598-13-3	PCB Congener # 77	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-49-1	PCB Congener # 78	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41464-48-6	PCB Congener # 79	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
33284-52-5	PCB Congener # 80	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70362-50-4	PCB Congener # 81	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-62-4	PCB Congener # 82	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-60-2	PCB Congener # 84	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-57-2	PCB Congener # 89	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-61-3	PCB Congener # 92	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-55-0	PCB Congener # 94	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
73575-54-9	PCB Congener # 96	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
60145-21-3	PCB Congener #103	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
56558-16-8	PCB Congener #104	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32598-14-4	PCB Congener #105	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70424-69-0	PCB Congener #106	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
70424-68-9	PCB Congener #107	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-32-0	PCB Congener #111	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-36-9	PCB Congener #112	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-02**

**Lab ID: E114204-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/11/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
31508-00-6	PCB Congener #118	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-12-7	PCB Congener #120	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
56558-18-0	PCB Congener #121	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
76842-07-4	PCB Congener #122	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
65510-44-3	PCB Congener #123	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
57465-28-8	PCB Congener #126	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-33-1	PCB Congener #127	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-66-8	PCB Congener #130	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
61798-70-7	PCB Congener #131	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38380-05-1	PCB Congener #132	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35694-04-3	PCB Congener #133	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38411-22-2	PCB Congener #136	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35694-06-5	PCB Congener #137	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52712-04-6	PCB Congener #141	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41411-61-4	PCB Congener #142	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-14-9	PCB Congener #144	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-40-5	PCB Congener #145	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
51908-16-8	PCB Congener #146	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-41-6	PCB Congener #148	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-08-1	PCB Congener #150	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
68194-09-2	PCB Congener #152	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: YR-02**

**Lab ID: E114204-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 10/11/11 14:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-42-7	PCB Congener #158	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-35-3	PCB Congener #159	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-43-8	PCB Congener #161	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-34-2	PCB Congener #162	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-45-0	PCB Congener #164	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-46-1	PCB Congener #165	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-72-6	PCB Congener #167	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
32774-16-6	PCB Congener #169	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35065-30-6	PCB Congener #170	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-74-8	PCB Congener #172	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
38411-25-5	PCB Congener #174	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
40186-70-7	PCB Congener #175	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-65-7	PCB Congener #176	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-70-4	PCB Congener #177	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-67-9	PCB Congener #178	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-64-6	PCB Congener #179	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-47-2	PCB Congener #181	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
60145-23-5	PCB Congener #182	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-48-3	PCB Congener #184	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-49-4	PCB Congener #186	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-68-0	PCB Congener #187	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74487-85-7	PCB Congener #188	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
39635-31-9	PCB Congener #189	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
41411-64-7	PCB Congener #190	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: YR-02

Lab ID: E114204-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 10/11/11 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-51-8	PCB Congener #192	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
35694-08-7	PCB Congener #194	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-78-2	PCB Congener #195	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
42740-50-1	PCB Congener #196	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
40186-71-8	PCB Congener #201	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2136-99-4	PCB Congener #202	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-76-0	PCB Congener #203	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-52-9	PCB Congener #204	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
74472-53-0	PCB Congener #205	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
40186-72-9	PCB Congener #206	140	U, B-2	pg/L	140	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-79-3	PCB Congener #207	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
52663-77-1	PCB Congener #208	110	U	pg/L	110	9/07/12 7:57	9/12/12 20:02	EPA 1668A
2051-24-3	PCB Congener #209	540	U	pg/L	540	9/07/12 7:57	9/12/12 20:02	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2050-68-2	PCB Congener # 15	43	J, Q-2	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-011312**

**Lab ID: E123505-01**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 1/13/12 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-011312**

Lab ID: **E123505-01**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-011312

Lab ID: E123505-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	170	U, B-2	pg/L	170	9/07/12 7:57	9/12/12 21:06	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
40186-72-9	PCB Congener #206	330	U, B-2	pg/L	330	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/12/12 21:06	EPA 1668A
52663-77-1	PCB Congener #208	130	U, B-2	pg/L	130	9/07/12 7:57	9/12/12 21:06	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/12/12 21:06	EPA 1668A





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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-091911**

Lab ID: **E123505-02**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2050-68-2	PCB Congener # 15	26	J, Q-2	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-091911**

**Lab ID: E123505-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/19/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-091911**

**Lab ID: E123505-02**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/19/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-091911

Lab ID: E123505-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-091911

Lab ID: E123505-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-091911

Lab ID: E123505-02

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	160	U, B-2	pg/L	160	9/07/12 7:57	9/12/12 22:10	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
40186-72-9	PCB Congener #206	280	U, B-2	pg/L	280	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/12/12 22:10	EPA 1668A
52663-77-1	PCB Congener #208	110	U, B-2	pg/L	110	9/07/12 7:57	9/12/12 22:10	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/12/12 22:10	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092011**

Lab ID: **E123505-03**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/20/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2050-68-2	PCB Congener # 15	37	J, Q-2	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A





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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092011**

Lab ID: **E123505-03**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/20/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092011**

**Lab ID: E123505-03**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/20/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092011

Lab ID: E123505-03

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/20/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	120	U, B-2	pg/L	120	9/07/12 7:57	9/12/12 23:13	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
40186-72-9	PCB Congener #206	280	U, B-2	pg/L	280	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/12/12 23:13	EPA 1668A
52663-77-1	PCB Congener #208	130	U, B-2	pg/L	130	9/07/12 7:57	9/12/12 23:13	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/12/12 23:13	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **BB-092611**

Lab ID: **E123505-04**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2050-68-2	PCB Congener # 15	33	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092611**

Lab ID: **E123505-04**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-092611**

**Lab ID: E123505-04**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092611

Lab ID: E123505-04

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	130	U, B-2	pg/L	130	9/07/12 7:57	9/13/12 0:17	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
40186-72-9	PCB Congener #206	210	U, B-2	pg/L	210	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 0:17	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 0:17	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-092911**

Lab ID: **E123505-05**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092911

Lab ID: E123505-05

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-092911

Lab ID: E123505-05

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 9/29/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
40186-72-9	PCB Congener #206	230	U, B-2	pg/L	230	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 12:24	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 12:24	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111711**

Lab ID: **E123505-06**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2050-68-2	PCB Congener # 15	42	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111711

Lab ID: E123505-06

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111711**

Lab ID: **E123505-06**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111711**

**Lab ID: E123505-06**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/17/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111711

Lab ID: E123505-06

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111711

Lab ID: E123505-06

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	210	U, B-2	pg/L	210	9/07/12 7:57	9/13/12 13:28	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-76-0	PCB Congener #203	150	U, B-2	pg/L	150	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
40186-72-9	PCB Congener #206	460	U, B-2	pg/L	460	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-79-3	PCB Congener #207	100	U, J, QI-1	pg/L	100	9/07/12 7:57	9/13/12 13:28	EPA 1668A
52663-77-1	PCB Congener #208	220	U, J, B-2, QI-1	pg/L	220	9/07/12 7:57	9/13/12 13:28	EPA 1668A
2051-24-3	PCB Congener #209	500	U, J, QI-1	pg/L	500	9/07/12 7:57	9/13/12 13:28	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-111811**

Lab ID: **E123505-07**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/18/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2050-68-2	PCB Congener # 15	47	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A





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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A





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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A



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D.A.R.T. Id: 11-0321

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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-111811**

**Lab ID: E123505-07**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 11/18/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-111811

Lab ID: E123505-07

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 11/18/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
40186-72-9	PCB Congener #206	310	U, B-2	pg/L	310	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 14:31	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 14:31	EPA 1668A



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2050-68-2	PCB Congener # 15	35	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A



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## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120711**

**Lab ID: E123505-08**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A





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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120711**

Lab ID: **E123505-08**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-120711

Lab ID: E123505-08

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/7/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
40186-72-9	PCB Congener #206	290	U, B-2	pg/L	290	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 15:35	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 15:35	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120811**

**Lab ID: E123505-09**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/8/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	24	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2050-68-2	PCB Congener # 15	29	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-120811**

Lab ID: **E123505-09**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/8/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120811**

**Lab ID: E123505-09**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/8/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120811**

**Lab ID: E123505-09**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/8/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-120811**

**Lab ID: E123505-09**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/8/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: BB-120811

Lab ID: E123505-09

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/8/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
40186-72-9	PCB Congener #206	210	U, B-2	pg/L	210	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 16:39	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 16:39	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2050-68-2	PCB Congener # 15	28	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: **BB-121611**

Lab ID: **E123505-10**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-121611**

Lab ID: **E123505-10**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: BB-121611**

**Lab ID: E123505-10**

**Station ID:**

**Matrix: Equipment Rinse Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: **BB-121611**

Lab ID: **E123505-10**

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
40186-72-9	PCB Congener #206	180	U, B-2	pg/L	180	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 17:42	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 17:42	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2050-68-2	PCB Congener # 15	29	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-011312**

**Lab ID: E123505-11**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 1/13/12 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-011312

Lab ID: E123505-11

Station ID:

Matrix: Dry Ice Blank

Date Collected: 1/13/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	140	U, B-2	pg/L	140	9/07/12 7:57	9/13/12 18:46	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
40186-72-9	PCB Congener #206	310	U, B-2	pg/L	310	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 18:46	EPA 1668A
52663-77-1	PCB Congener #208	120	U, B-2	pg/L	120	9/07/12 7:57	9/13/12 18:46	EPA 1668A
2051-24-3	PCB Congener #209	500	U, J, QI-1	pg/L	500	9/07/12 7:57	9/13/12 18:46	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2050-68-2	PCB Congener # 15	29	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-091911**

**Lab ID: E123505-12**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 9/19/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-091911

Lab ID: E123505-12

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/19/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	130	U, B-2	pg/L	130	9/07/12 7:57	9/13/12 19:50	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
40186-72-9	PCB Congener #206	300	U, B-2	pg/L	300	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 19:50	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 19:50	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-092611**

**Lab ID: E123505-13**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 9/26/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2050-68-2	PCB Congener # 15	31	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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D.A.R.T. Id: 11-0321

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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-092611

Lab ID: E123505-13

Station ID:

Matrix: Dry Ice Blank

Date Collected: 9/26/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
40186-72-9	PCB Congener #206	200	U, B-2	pg/L	200	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 20:53	EPA 1668A
2051-24-3	PCB Congener #209	2400		pg/L	500	9/07/12 7:57	9/13/12 20:53	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2050-68-2	PCB Congener # 15	36	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-111711**

**Lab ID: E123505-14**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 11/17/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-111711

Lab ID: E123505-14

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/17/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
40186-72-9	PCB Congener #206	220	U, B-2	pg/L	220	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 21:57	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 21:57	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2050-68-2	PCB Congener # 15	26	J, Q-2	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	160	U, B-2	pg/L	160	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A





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Region 4 Science and Ecosystem Support Division  
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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-112111**

**Lab ID: E123505-15**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 11/21/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A



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D.A.R.T. Id: 11-0321

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## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-112111

Lab ID: E123505-15

Station ID:

Matrix: Dry Ice Blank

Date Collected: 11/21/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
40186-72-9	PCB Congener #206	170	U, B-2	pg/L	170	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/13/12 23:01	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/13/12 23:01	EPA 1668A



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 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-120711

Lab ID: E123505-16

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2050-68-2	PCB Congener # 15	34	J, Q-2	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-120711**

**Lab ID: E123505-16**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A



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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-120711**

**Lab ID: E123505-16**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A



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### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-120711

Lab ID: E123505-16

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A





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**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-120711**

**Lab ID: E123505-16**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/7/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-120711

Lab ID: E123505-16

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/7/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
40186-72-9	PCB Congener #206	240	U, B-2	pg/L	240	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-79-3	PCB Congener #207	100	U, J, QI-1	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
52663-77-1	PCB Congener #208	100	U, J, QI-1	pg/L	100	9/07/12 7:57	9/14/12 14:15	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/14/12 14:15	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2051-60-7	PCB Congener # 1	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2051-61-8	PCB Congener # 2	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2051-62-9	PCB Congener # 3	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
13029-08-8	PCB Congener # 4	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
16605-91-7	PCB Congener # 5	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
25569-80-6	PCB Congener # 6	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33284-50-3	PCB Congener # 7	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
34883-43-7	PCB Congener # 8	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
34883-39-1	PCB Congener # 9	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33146-45-1	PCB Congener # 10	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2050-67-1	PCB Congener # 11	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000863	PCB Congener # 12 and/or 13	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
34883-41-5	PCB Congener # 14	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2050-68-2	PCB Congener # 15	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-78-9	PCB Congener # 16	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
37680-66-3	PCB Congener # 17	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000864	PCB Congener # 18 and/or 30	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-73-4	PCB Congener # 19	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000865	PCB Congener # 20 and/or 28	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000866	PCB Congener # 21 and/or 33	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-85-8	PCB Congener # 22	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
55720-44-0	PCB Congener # 23	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
55702-45-9	PCB Congener # 24	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
55712-37-3	PCB Congener # 25	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000867	PCB Congener # 26 and/or 29	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-76-7	PCB Congener # 27	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
16606-02-3	PCB Congener # 31	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-77-8	PCB Congener # 32	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID:** DIB-121611

**Lab ID:** E123505-17

**Station ID:**

**Matrix:** Dry Ice Blank

**Date Collected:** 12/16/11 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
37680-68-5	PCB Congener # 34	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
37680-69-6	PCB Congener # 35	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-87-0	PCB Congener # 36	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-90-5	PCB Congener # 37	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
53555-66-1	PCB Congener # 38	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38444-88-1	PCB Congener # 39	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000868	PCB Congener # 40 and/or 41,71	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
36559-22-5	PCB Congener # 42	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-46-8	PCB Congener # 43	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000869	PCB Congener # 44 and/or 47,65	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000870	PCB Congener # 45 and/or 51	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-47-5	PCB Congener # 46	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-47-9	PCB Congener # 48	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000871	PCB Congener # 49 and/or 69	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000872	PCB Congener # 50 and/or 53	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35693-99-3	PCB Congener # 52	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
15968-05-5	PCB Congener # 54	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74338-24-2	PCB Congener # 55	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-43-1	PCB Congener # 56	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70424-67-8	PCB Congener # 57	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-49-7	PCB Congener # 58	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000873	PCB Congener # 59 and/or 62,75	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33025-41-1	PCB Congener # 60	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000874	PCB Congener # 61 and/or 70,74,76	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-34-7	PCB Congener # 63	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-58-8	PCB Congener # 64	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32598-10-0	PCB Congener # 66	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-53-8	PCB Congener # 67	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-52-7	PCB Congener # 68	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41464-42-0	PCB Congener # 72	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74338-23-1	PCB Congener # 73	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32598-13-3	PCB Congener # 77	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-49-1	PCB Congener # 78	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41464-48-6	PCB Congener # 79	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
33284-52-5	PCB Congener # 80	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70362-50-4	PCB Congener # 81	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-62-4	PCB Congener # 82	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000875	PCB Congener # 83 and/or 99	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-60-2	PCB Congener # 84	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000876	PCB Congener # 85 and/or 116,117	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
E52450707	PCB Congener # 86 and/or 87,97,109,119,125	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000878	PCB Congener # 88 and/or 91	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-57-2	PCB Congener # 89	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000879	PCB Congener # 90 and/or 101,113	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-61-3	PCB Congener # 92	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000880	PCB Congener # 93 and/or 95,98,100,102	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-55-0	PCB Congener # 94	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
73575-54-9	PCB Congener # 96	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
60145-21-3	PCB Congener #103	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
56558-16-8	PCB Congener #104	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32598-14-4	PCB Congener #105	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70424-69-0	PCB Congener #106	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
70424-68-9	PCB Congener #107	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8001053	PCB Congener #108 and/or 124	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000882	PCB Congener #110 and/or 115	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-32-0	PCB Congener #111	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-36-9	PCB Congener #112	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners**

**Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa**

**Sample ID: DIB-121611**

**Lab ID: E123505-17**

**Station ID:**

**Matrix: Dry Ice Blank**

**Date Collected: 12/16/11 9:00**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
74472-37-0	PCB Congener #114	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
31508-00-6	PCB Congener #118	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-12-7	PCB Congener #120	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
56558-18-0	PCB Congener #121	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
76842-07-4	PCB Congener #122	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
65510-44-3	PCB Congener #123	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
57465-28-8	PCB Congener #126	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-33-1	PCB Congener #127	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000883	PCB Congener #128 and/or 166	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000884	PCB Congener #129 and/or 138,160,163	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-66-8	PCB Congener #130	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
61798-70-7	PCB Congener #131	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38380-05-1	PCB Congener #132	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35694-04-3	PCB Congener #133	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000885	PCB Congener #134 and/or 143	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000886	PCB Congener #135 and/or 151,154	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38411-22-2	PCB Congener #136	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35694-06-5	PCB Congener #137	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000887	PCB Congener #139 and/or 140	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52712-04-6	PCB Congener #141	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41411-61-4	PCB Congener #142	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-14-9	PCB Congener #144	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-40-5	PCB Congener #145	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
51908-16-8	PCB Congener #146	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000888	PCB Congener #147 and/or 149	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-41-6	PCB Congener #148	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-08-1	PCB Congener #150	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
68194-09-2	PCB Congener #152	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000889	PCB Congener #153 and/or 168	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

### PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
33979-03-2	PCB Congener #155	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000890	PCB Congener #156 and/or 157	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-42-7	PCB Congener #158	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-35-3	PCB Congener #159	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-43-8	PCB Congener #161	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-34-2	PCB Congener #162	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-45-0	PCB Congener #164	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-46-1	PCB Congener #165	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-72-6	PCB Congener #167	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
32774-16-6	PCB Congener #169	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35065-30-6	PCB Congener #170	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000891	PCB Congener #171 and/or 173	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-74-8	PCB Congener #172	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
38411-25-5	PCB Congener #174	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
40186-70-7	PCB Congener #175	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-65-7	PCB Congener #176	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-70-4	PCB Congener #177	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-67-9	PCB Congener #178	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-64-6	PCB Congener #179	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000892	PCB Congener #180 and/or 193	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-47-2	PCB Congener #181	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
60145-23-5	PCB Congener #182	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000893	PCB Congener #183 and/or 185	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-48-3	PCB Congener #184	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-49-4	PCB Congener #186	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-68-0	PCB Congener #187	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74487-85-7	PCB Congener #188	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
39635-31-9	PCB Congener #189	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
41411-64-7	PCB Congener #190	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

## PCB Congeners

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa

Sample ID: DIB-121611

Lab ID: E123505-17

Station ID:

Matrix: Dry Ice Blank

Date Collected: 12/16/11 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74472-50-7	PCB Congener #191	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-51-8	PCB Congener #192	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
35694-08-7	PCB Congener #194	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-78-2	PCB Congener #195	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
42740-50-1	PCB Congener #196	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000894	PCB Congener #197 and/or 200	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
R4-8000895	PCB Congener #198 and/or 199	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
40186-71-8	PCB Congener #201	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2136-99-4	PCB Congener #202	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-76-0	PCB Congener #203	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-52-9	PCB Congener #204	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
74472-53-0	PCB Congener #205	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
40186-72-9	PCB Congener #206	200	U, B-2	pg/L	200	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-79-3	PCB Congener #207	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
52663-77-1	PCB Congener #208	100	U	pg/L	100	9/07/12 7:57	9/14/12 15:19	EPA 1668A
2051-24-3	PCB Congener #209	500	U	pg/L	500	9/07/12 7:57	9/14/12 15:19	EPA 1668A





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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	720.80		pg/L	2000.0		36.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	806.20		"	2000.0		40.3	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	779.60		"	2000.0		39.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	785.20		"	2000.0		39.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	784.40		"	2000.0		39.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1127.0		"	2000.0		56.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	997.80		"	2000.0		49.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1214.0		"	2000.0		60.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	966.20		"	2000.0		48.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	753.80		"	2000.0		37.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1035.6		"	2000.0		51.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1063.8		"	2000.0		53.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	998.40		"	2000.0		49.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	761.00		"	2000.0		38.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1057.2		"	2000.0		52.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	975.20		"	2000.0		48.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2686.4		"	4000.0		67.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1314.8		"	2000.0		65.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1392.6		"	2000.0		69.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	910.80		"	2000.0		45.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1014.4		"	2000.0		50.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	850.00		"	2000.0		42.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	764.20		"	2000.0		38.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1098.0		"	2000.0		54.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	972.20		"	2000.0		48.6	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	716.40		"	2000.0		35.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1466.4		"	1960.0		74.8	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1398.2		"	1940.0		72.1	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1351.0		"	1820.0		74.2	30-135			
PCB Congener # 1	U	100	"							U
PCB Congener # 2	U	100	"							U
PCB Congener # 3	U	100	"							U
PCB Congener # 4	50	100	"							B-3, Q-2, J
PCB Congener # 5	U	100	"							U
PCB Congener # 6	U	100	"							U
PCB Congener # 7	U	100	"							U
PCB Congener # 8	100	100	"							B-3
PCB Congener # 9	U	100	"							U





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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 10	U	100	pg/L							U
PCB Congener # 11	U	100	"							U
PCB Congener # 12 and/or 13	U	100	"							U
PCB Congener # 14	U	100	"							U
PCB Congener # 15	U	100	"							U
PCB Congener # 16	U	100	"							U
PCB Congener # 17	U	100	"							U
PCB Congener # 18 and/or 30	110	100	"							B-3
PCB Congener # 19	U	100	"							U
PCB Congener # 20 and/or 28	110	100	"							B-3
PCB Congener # 21 and/or 33	U	100	"							U
PCB Congener # 22	U	100	"							U
PCB Congener # 23	U	100	"							U
PCB Congener # 24	U	100	"							U
PCB Congener # 25	U	100	"							U
PCB Congener # 26 and/or 29	U	100	"							U
PCB Congener # 27	U	100	"							U
PCB Congener # 31	110	100	"							B-3
PCB Congener # 32	U	100	"							U
PCB Congener # 34	U	100	"							U
PCB Congener # 35	U	100	"							U
PCB Congener # 36	U	100	"							U
PCB Congener # 37	39	100	"							B-3, Q-2, J
PCB Congener # 38	U	100	"							U
PCB Congener # 39	U	100	"							U
PCB Congener # 40 and/or 41,71	U	100	"							U
PCB Congener # 42	U	100	"							U
PCB Congener # 43	U	100	"							U
PCB Congener # 44 and/or 47,65	110	100	"							B-4
PCB Congener # 45 and/or 51	U	100	"							U
PCB Congener # 46	U	100	"							U
PCB Congener # 48	U	100	"							U
PCB Congener # 49 and/or 69	U	100	"							U
PCB Congener # 50 and/or 53	U	100	"							U
PCB Congener # 52	U	100	"							U
PCB Congener # 54	U	100	"							U
PCB Congener # 55	U	100	"							U
PCB Congener # 56	U	100	"							U
PCB Congener # 57	U	100	"							U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 58	U	100	pg/L							U
PCB Congener # 59 and/or 62,75	U	100	"							U
PCB Congener # 60	U	100	"							U
PCB Congener # 61 and/or 70,74,76	100	100	"							B-3
PCB Congener # 63	U	100	"							U
PCB Congener # 64	U	100	"							U
PCB Congener # 66	U	100	"							U
PCB Congener # 67	U	100	"							U
PCB Congener # 68	U	100	"							U
PCB Congener # 72	U	100	"							U
PCB Congener # 73	U	100	"							U
PCB Congener # 77	15	100	"							B-3, Q-2, J
PCB Congener # 78	U	100	"							U
PCB Congener # 79	U	100	"							U
PCB Congener # 80	U	100	"							U
PCB Congener # 81	U	100	"							U
PCB Congener # 82	U	100	"							U
PCB Congener # 83 and/or 99	U	100	"							U
PCB Congener # 84	U	100	"							U
PCB Congener # 85 and/or 116,117	U	100	"							U
PCB Congener # 86 and/or 87,97,109,119,125	U	100	"							U
PCB Congener # 88 and/or 91	U	100	"							U
PCB Congener # 89	U	100	"							U
PCB Congener # 90 and/or 101,113	U	100	"							U
PCB Congener # 92	U	100	"							U
PCB Congener # 93 and/or 95,98,100,102	U	100	"							U
PCB Congener # 94	U	100	"							U
PCB Congener # 96	U	100	"							U
PCB Congener #103	U	100	"							U
PCB Congener #104	U	100	"							U
PCB Congener #105	43	100	"							B-3, Q-2, J
PCB Congener #106	U	100	"							U
PCB Congener #107	U	100	"							U
PCB Congener #108 and/or 124	U	100	"							U
PCB Congener #110 and/or 115	U	100	"							U
PCB Congener #111	U	100	"							U
PCB Congener #112	U	100	"							U
PCB Congener #114	U	100	"							U



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #118	49	100	pg/L							B-3, Q-2, J
PCB Congener #120	U	100	"							U
PCB Congener #121	U	100	"							U
PCB Congener #122	U	100	"							U
PCB Congener #123	U	100	"							U
PCB Congener #126	U	100	"							U
PCB Congener #127	U	100	"							U
PCB Congener #128 and/or 166	U	100	"							U
PCB Congener #129 and/or 138,160,163	U	100	"							U
PCB Congener #130	U	100	"							U
PCB Congener #131	U	100	"							U
PCB Congener #132	U	100	"							U
PCB Congener #133	U	100	"							U
PCB Congener #134 and/or 143	U	100	"							U
PCB Congener #135 and/or 151,154	U	100	"							U
PCB Congener #136	U	100	"							U
PCB Congener #137	U	100	"							U
PCB Congener #139 and/or 140	U	100	"							U
PCB Congener #141	U	100	"							U
PCB Congener #142	U	100	"							U
PCB Congener #144	U	100	"							U
PCB Congener #145	U	100	"							U
PCB Congener #146	U	100	"							U
PCB Congener #147 and/or 149	U	100	"							U
PCB Congener #148	U	100	"							U
PCB Congener #150	U	100	"							U
PCB Congener #152	U	100	"							U
PCB Congener #153 and/or 168	U	100	"							U
PCB Congener #155	U	100	"							U
PCB Congener #156 and/or 157	U	100	"							U
PCB Congener #158	U	100	"							U
PCB Congener #159	U	100	"							U
PCB Congener #161	U	100	"							U
PCB Congener #162	U	100	"							U
PCB Congener #164	U	100	"							U
PCB Congener #165	U	100	"							U
PCB Congener #167	U	100	"							U
PCB Congener #169	U	100	"							U
PCB Congener #170	U	100	"							U



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D.A.R.T. Id: 11-0321

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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Blank (1209027-BLK1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #171 and/or 173	U	100	pg/L							U
PCB Congener #172	U	100	"							U
PCB Congener #174	U	100	"							U
PCB Congener #175	U	100	"							U
PCB Congener #176	U	100	"							U
PCB Congener #177	U	100	"							U
PCB Congener #178	U	100	"							U
PCB Congener #179	U	100	"							U
PCB Congener #180 and/or 193	U	100	"							U
PCB Congener #181	U	100	"							U
PCB Congener #182	U	100	"							U
PCB Congener #183 and/or 185	U	100	"							U
PCB Congener #184	U	100	"							U
PCB Congener #186	U	100	"							U
PCB Congener #187	U	100	"							U
PCB Congener #188	U	100	"							U
PCB Congener #189	U	100	"							U
PCB Congener #190	U	100	"							U
PCB Congener #191	U	100	"							U
PCB Congener #192	U	100	"							U
PCB Congener #194	U	100	"							U
PCB Congener #195	U	100	"							U
PCB Congener #196	U	100	"							U
PCB Congener #197 and/or 200	U	100	"							U
PCB Congener #198 and/or 199	260	100	"							B-4
PCB Congener #201	U	100	"							U
PCB Congener #202	80	100	"							B-3, Q-2, J
PCB Congener #203	160	100	"							B-4
PCB Congener #204	U	100	"							U
PCB Congener #205	U	100	"							U
PCB Congener #206	490	100	"							B-4
PCB Congener #207	U	100	"							U
PCB Congener #208	200	100	"							B-4
PCB Congener #209	U	500	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region 4 Science and Ecosystem Support Division  
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**LCS (1209027-BS1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	973.20		pg/L	2000.0		48.7	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	1015.4		"	2000.0		50.8	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	1059.8		"	2000.0		53.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	1164.6		"	2000.0		58.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	846.60		"	2000.0		42.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1201.8		"	2000.0		60.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	1043.6		"	2000.0		52.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1351.4		"	2000.0		67.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1141.4		"	2000.0		57.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	929.00		"	2000.0		46.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1204.2		"	2000.0		60.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1226.2		"	2000.0		61.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1137.2		"	2000.0		56.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1014.6		"	2000.0		50.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1188.0		"	2000.0		59.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1113.8		"	2000.0		55.7	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2662.2		"	4000.0		66.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1192.0		"	2000.0		59.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1341.2		"	2000.0		67.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1209.6		"	2000.0		60.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1379.8		"	2000.0		69.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	1143.4		"	2000.0		57.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1032.8		"	2000.0		51.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1357.4		"	2000.0		67.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1127.6		"	2000.0		56.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	891.20		"	2000.0		44.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1644.8		"	1960.0		83.9	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1615.8		"	1940.0		83.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1341.0		"	1820.0		73.7	40-125			
PCB Congener # 1	1000	100	"	1000.0		104	50-150			
PCB Congener # 3	1000	100	"	1000.0		102	50-150			
PCB Congener # 4	1000	100	"	1000.0		99.9	50-150			
PCB Congener # 15	1100	100	"	1000.0		108	50-150			
PCB Congener # 19	1000	100	"	1000.0		102	50-150			
PCB Congener # 37	850	100	"	1000.0		85.0	50-150			
PCB Congener # 54	980	100	"	1000.0		98.0	50-150			
PCB Congener # 77	940	100	"	1000.0		93.9	50-150			
PCB Congener # 81	1000	100	"	1000.0		102	50-150			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**LCS (1209027-BS1)**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #104	1000	100	pg/L	1000.0		101	50-150			
PCB Congener #105	950	100	"	1000.0		95.0	50-150			
PCB Congener #114	920	100	"	1000.0		92.3	50-150			
PCB Congener #118	1100	100	"	1000.0		111	50-150			
PCB Congener #123	960	100	"	1000.0		96.4	50-150			
PCB Congener #126	960	100	"	1000.0		95.8	50-150			
PCB Congener #155	920	100	"	1000.0		91.7	50-150			
PCB Congener #156 and/or 157	1900	100	"	2000.0		95.9	0-200			
PCB Congener #167	920	100	"	1000.0		91.6	50-150			
PCB Congener #169	950	100	"	1000.0		94.6	50-150			
PCB Congener #188	920	100	"	1000.0		92.2	50-150			
PCB Congener #189	920	100	"	1000.0		91.8	50-150			
PCB Congener #202	1000	100	"	1000.0		102	50-150			
PCB Congener #205	1100	100	"	1000.0		108	50-150			
PCB Congener #206	1300	100	"	1000.0		133	50-150			
PCB Congener #208	1100	100	"	1000.0		114	50-150			
PCB Congener #209	1400	500	"	1000.0		136	50-150			

**LCS Dup (1209027-BSD1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	757.00		pg/L	2000.0		37.8	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	948.60		"	2000.0		47.4	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	990.20		"	2000.0		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	1024.6		"	2000.0		51.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	919.00		"	2000.0		46.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1263.4		"	2000.0		63.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	961.40		"	2000.0		48.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1306.6		"	2000.0		65.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1131.2		"	2000.0		56.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1008.0		"	2000.0		50.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1123.4		"	2000.0		56.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1052.4		"	2000.0		52.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1110.2		"	2000.0		55.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1100.8		"	2000.0		55.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1081.8		"	2000.0		54.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	1187.8		"	2000.0		59.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	3372.4		"	4000.0		84.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1166.2		"	2000.0		58.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1724.2		"	2000.0		86.2	30-140			



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**LCS Dup (1209027-BSD1)**

Prepared: 09/07/12 Analyzed: 09/12/12

<i>Surrogate: <sup>13</sup>C PCB Congener # 188L</i>	1093.2		pg/L	2000.0		54.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 189L</i>	1191.4		"	2000.0		59.6	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 202L</i>	1041.8		"	2000.0		52.1	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 205L</i>	956.00		"	2000.0		47.8	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 206L</i>	1161.6		"	2000.0		58.1	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 208L</i>	1153.4		"	2000.0		57.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 209L</i>	813.80		"	2000.0		40.7	30-140			
<i>Surrogate: <sup>13</sup>C PCB Congener # 28L</i>	1641.4		"	1960.0		83.7	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 111L</i>	1513.4		"	1940.0		78.0	40-125			
<i>Surrogate: <sup>13</sup>C PCB Congener # 178L</i>	1756.8		"	1820.0		96.5	40-125			
PCB Congener # 1	1000	100	"	1000.0		104	50-150	0.403	30	
PCB Congener # 3	980	100	"	1000.0		97.8	50-150	4.63	30	
PCB Congener # 4	1000	100	"	1000.0		105	50-150	4.79	30	
PCB Congener # 15	1100	100	"	1000.0		113	50-150	4.22	30	
PCB Congener # 19	930	100	"	1000.0		92.6	50-150	9.68	30	
PCB Congener # 37	900	100	"	1000.0		90.4	50-150	6.20	30	
PCB Congener # 54	1100	100	"	1000.0		112	50-150	13.1	30	
PCB Congener # 77	930	100	"	1000.0		93.1	50-150	0.813	30	
PCB Congener # 81	940	100	"	1000.0		94.5	50-150	8.13	30	
PCB Congener #104	940	100	"	1000.0		93.9	50-150	6.99	30	
PCB Congener #105	980	100	"	1000.0		97.7	50-150	2.80	30	
PCB Congener #114	890	100	"	1000.0		89.5	50-150	3.17	30	
PCB Congener #118	1000	100	"	1000.0		103	50-150	7.45	30	
PCB Congener #123	930	100	"	1000.0		93.2	50-150	3.40	30	
PCB Congener #126	940	100	"	1000.0		94.3	50-150	1.58	30	
PCB Congener #155	880	100	"	1000.0		87.7	50-150	4.42	30	
PCB Congener #156 and/or 157	2000	100	"	2000.0		99.1	0-200	3.23	200	
PCB Congener #167	910	100	"	1000.0		90.6	50-150	1.14	30	
PCB Congener #169	920	100	"	1000.0		92.0	50-150	2.74	30	
PCB Congener #188	860	100	"	1000.0		86.2	50-150	6.79	30	
PCB Congener #189	940	100	"	1000.0		94.3	50-150	2.71	30	
PCB Congener #202	940	100	"	1000.0		94.4	50-150	7.37	30	
PCB Congener #205	1000	100	"	1000.0		103	50-150	5.30	30	
PCB Congener #206	1200	100	"	1000.0		122	50-150	8.90	30	
PCB Congener #208	1000	100	"	1000.0		103	50-150	10.3	30	
PCB Congener #209	1300	500	"	1000.0		128	50-150	6.35	30	



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	677.16		pg/L	2185.8		31.0	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 3L	822.95		"	2185.8		37.7	15-150			
Surrogate: <sup>13</sup> C PCB Congener # 4L	895.74		"	2185.8		41.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 15L	1005.9		"	2185.8		46.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 19L	925.90		"	2185.8		42.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1047.0		"	2185.8		47.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 54L	856.83		"	2185.8		39.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 77L	928.09		"	2185.8		42.5	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 81L	903.39		"	2185.8		41.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 104L	1066.4		"	2185.8		48.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 105L	1072.1		"	2185.8		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 114L	1175.7		"	2185.8		53.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1099.0		"	2185.8		50.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 123L	1047.9		"	2185.8		47.9	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 126L	1160.7		"	2185.8		53.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 155L	855.52		"	2185.8		39.1	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2481.5		"	4371.6		56.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1217.7		"	2185.8		55.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1263.8		"	2185.8		57.8	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1196.5		"	2185.8		54.7	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1162.6		"	2185.8		53.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 202L	1183.8		"	2185.8		54.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1072.1		"	2185.8		49.0	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1185.8		"	2185.8		54.2	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1142.3		"	2185.8		52.3	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 209L	881.97		"	2185.8		40.4	25-150			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1429.7		"	2142.1		66.7	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1291.1		"	2120.2		60.9	30-135			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1336.2		"	1989.1		67.2	30-135			
PCB Congener # 1	U	110	"		U				30	U
PCB Congener # 2	U	110	"		U				30	U
PCB Congener # 3	U	110	"		U				30	U
PCB Congener # 4	U	110	"		U				30	U
PCB Congener # 5	U	110	"		U				30	U
PCB Congener # 6	U	110	"		U				30	U
PCB Congener # 7	U	110	"		U				30	U
PCB Congener # 8	U	110	"		U				30	U
PCB Congener # 9	U	110	"		U				30	U





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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 10	U	110	pg/L		U				30	U
PCB Congener # 11	U	110	"		U				30	U
PCB Congener # 12 and/or 13	U	110	"		U				30	U
PCB Congener # 14	U	110	"		U				30	U
PCB Congener # 15	36	110	"		33		7.53		30	J, Q-2
PCB Congener # 16	U	110	"		U				30	U
PCB Congener # 17	U	110	"		U				30	U
PCB Congener # 18 and/or 30	U	110	"		U				30	U
PCB Congener # 19	U	110	"		U				30	U
PCB Congener # 20 and/or 28	U	110	"		U				30	U
PCB Congener # 21 and/or 33	U	110	"		U				30	U
PCB Congener # 22	U	110	"		U				30	U
PCB Congener # 23	U	110	"		U				30	U
PCB Congener # 24	U	110	"		U				30	U
PCB Congener # 25	U	110	"		U				30	U
PCB Congener # 26 and/or 29	U	110	"		U				30	U
PCB Congener # 27	U	110	"		U				30	U
PCB Congener # 31	U	110	"		U				30	U
PCB Congener # 32	U	110	"		U				30	U
PCB Congener # 34	U	110	"		U				30	U
PCB Congener # 35	U	110	"		U				30	U
PCB Congener # 36	U	110	"		U				30	U
PCB Congener # 37	U	110	"		U				30	U
PCB Congener # 38	U	110	"		U				30	U
PCB Congener # 39	U	110	"		U				30	U
PCB Congener # 40 and/or 41,71	U	110	"		U				30	U
PCB Congener # 42	U	110	"		U				30	U
PCB Congener # 43	U	110	"		U				30	U
PCB Congener # 44 and/or 47,65	U	110	"		U				30	U
PCB Congener # 45 and/or 51	U	110	"		U				30	U
PCB Congener # 46	U	110	"		U				30	U
PCB Congener # 48	U	110	"		U				30	U
PCB Congener # 49 and/or 69	U	110	"		U				30	U
PCB Congener # 50 and/or 53	U	110	"		U				30	U
PCB Congener # 52	U	110	"		U				30	U
PCB Congener # 54	U	110	"		U				30	U
PCB Congener # 55	U	110	"		U				30	U
PCB Congener # 56	U	110	"		U				30	U
PCB Congener # 57	U	110	"		U				30	U
PCB Congener # 58	U	110	"		U				30	U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener # 59 and/or 62,75	U	110	pg/L		U			30		U
PCB Congener # 60	U	110	"		U			30		U
PCB Congener # 61 and/or 70,74,76	U	110	"		U			30		U
PCB Congener # 63	U	110	"		U			30		U
PCB Congener # 64	U	110	"		U			30		U
PCB Congener # 66	U	110	"		U			30		U
PCB Congener # 67	U	110	"		U			30		U
PCB Congener # 68	U	110	"		U			30		U
PCB Congener # 72	U	110	"		U			30		U
PCB Congener # 73	U	110	"		U			30		U
PCB Congener # 77	U	110	"		U			30		U
PCB Congener # 78	U	110	"		U			30		U
PCB Congener # 79	U	110	"		U			30		U
PCB Congener # 80	U	110	"		U			30		U
PCB Congener # 81	U	110	"		U			30		U
PCB Congener # 82	U	110	"		U			30		U
PCB Congener # 83 and/or 99	U	110	"		U			30		U
PCB Congener # 84	U	110	"		U			30		U
PCB Congener # 85 and/or 116,117	U	110	"		U			30		U
PCB Congener # 86 and/or 87,97,109,119,125	U	110	"		U			30		U
PCB Congener # 88 and/or 91	U	110	"		U			30		U
PCB Congener # 89	U	110	"		U			30		U
PCB Congener # 90 and/or 101,113	U	110	"		U			30		U
PCB Congener # 92	U	110	"		U			30		U
PCB Congener # 93 and/or 95,98,100,102	U	110	"		U			30		U
PCB Congener # 94	U	110	"		U			30		U
PCB Congener # 96	U	110	"		U			30		U
PCB Congener #103	U	110	"		U			30		U
PCB Congener #104	U	110	"		U			30		U
PCB Congener #105	U	110	"		U			30		U
PCB Congener #106	U	110	"		U			30		U
PCB Congener #107	U	110	"		U			30		U
PCB Congener #108 and/or 124	U	110	"		U			30		U
PCB Congener #110 and/or 115	U	110	"		U			30		U
PCB Congener #111	U	110	"		U			30		U
PCB Congener #112	U	110	"		U			30		U
PCB Congener #114	U	110	"		U			30		U
PCB Congener #118	U	110	"		U			30		U
PCB Congener #120	U	110	"		U			30		U



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D.A.R.T. Id: 11-0321

Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #121	U	110	pg/L		U			30		U
PCB Congener #122	U	110	"		U			30		U
PCB Congener #123	U	110	"		U			30		U
PCB Congener #126	U	110	"		U			30		U
PCB Congener #127	U	110	"		U			30		U
PCB Congener #128 and/or 166	U	110	"		U			30		U
PCB Congener #129 and/or 138,160,163	U	110	"		U			30		U
PCB Congener #130	U	110	"		U			30		U
PCB Congener #131	U	110	"		U			30		U
PCB Congener #132	U	110	"		U			30		U
PCB Congener #133	U	110	"		U			30		U
PCB Congener #134 and/or 143	U	110	"		U			30		U
PCB Congener #135 and/or 151,154	U	110	"		U			30		U
PCB Congener #136	U	110	"		U			30		U
PCB Congener #137	U	110	"		U			30		U
PCB Congener #139 and/or 140	U	110	"		U			30		U
PCB Congener #141	U	110	"		U			30		U
PCB Congener #142	U	110	"		U			30		U
PCB Congener #144	U	110	"		U			30		U
PCB Congener #145	U	110	"		U			30		U
PCB Congener #146	U	110	"		U			30		U
PCB Congener #147 and/or 149	U	110	"		U			30		U
PCB Congener #148	U	110	"		U			30		U
PCB Congener #150	U	110	"		U			30		U
PCB Congener #152	U	110	"		U			30		U
PCB Congener #153 and/or 168	U	110	"		U			30		U
PCB Congener #155	U	110	"		U			30		U
PCB Congener #156 and/or 157	U	110	"		U			30		U
PCB Congener #158	U	110	"		U			30		U
PCB Congener #159	U	110	"		U			30		U
PCB Congener #161	U	110	"		U			30		U
PCB Congener #162	U	110	"		U			30		U
PCB Congener #164	U	110	"		U			30		U
PCB Congener #165	U	110	"		U			30		U
PCB Congener #167	U	110	"		U			30		U
PCB Congener #169	U	110	"		U			30		U
PCB Congener #170	U	110	"		U			30		U
PCB Congener #171 and/or 173	U	110	"		U			30		U
PCB Congener #172	U	110	"		U			30		U
PCB Congener #174	U	110	"		U			30		U



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**Duplicate (1209027-DUP1)**

**Source: E114204-02**

Prepared: 09/07/12 Analyzed: 09/12/12

PCB Congener #175	U	110	pg/L		U			30		U
PCB Congener #176	U	110	"		U			30		U
PCB Congener #177	U	110	"		U			30		U
PCB Congener #178	U	110	"		U			30		U
PCB Congener #179	U	110	"		U			30		U
PCB Congener #180 and/or 193	U	110	"		U			30		U
PCB Congener #181	U	110	"		U			30		U
PCB Congener #182	U	110	"		U			30		U
PCB Congener #183 and/or 185	U	110	"		U			30		U
PCB Congener #184	U	110	"		U			30		U
PCB Congener #186	U	110	"		U			30		U
PCB Congener #187	U	110	"		U			30		U
PCB Congener #188	U	110	"		U			30		U
PCB Congener #189	U	110	"		U			30		U
PCB Congener #190	U	110	"		U			30		U
PCB Congener #191	U	110	"		U			30		U
PCB Congener #192	U	110	"		U			30		U
PCB Congener #194	U	110	"		U			30		U
PCB Congener #195	U	110	"		U			30		U
PCB Congener #196	U	110	"		U			30		U
PCB Congener #197 and/or 200	U	110	"		U			30		U
PCB Congener #198 and/or 199	U	110	"		U			30		U
PCB Congener #201	U	110	"		U			30		U
PCB Congener #202	U	110	"		U			30		U
PCB Congener #203	U	110	"		U			30		U
PCB Congener #204	U	110	"		U			30		U
PCB Congener #205	U	110	"		U			30		U
PCB Congener #206	U	180	"		U			30		B-2, U
PCB Congener #207	U	110	"		U			30		U
PCB Congener #208	U	110	"		U			30		U
PCB Congener #209	U	550	"		U			30		U



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Project: 12-0001, Yadkin River Sediment and Fish Tissue Sa - Reported by Sallie Hale

**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1209027 - E 1668**

**MRL Verification (1209027-PS1)**

Prepared: 09/07/12 Analyzed: 09/12/12

**EPA 1668A**

Surrogate: <sup>13</sup> C PCB Congener # 1L	620.80		pg/L	2000.0		31.0	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 3L	665.80		"	2000.0		33.3	15-140			
Surrogate: <sup>13</sup> C PCB Congener # 4L	717.80		"	2000.0		35.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 15L	901.40		"	2000.0		45.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 19L	753.00		"	2000.0		37.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 37L	1050.8		"	2000.0		52.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 54L	956.40		"	2000.0		47.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 77L	1202.6		"	2000.0		60.1	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 81L	1030.4		"	2000.0		51.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 104L	929.40		"	2000.0		46.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 105L	743.60		"	2000.0		37.2	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 114L	960.40		"	2000.0		48.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 118L	1006.6		"	2000.0		50.3	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 123L	910.40		"	2000.0		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 126L	989.80		"	2000.0		49.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 155L	978.40		"	2000.0		48.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 156L and/or # 157L	2299.6		"	4000.0		57.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 167L	1090.6		"	2000.0		54.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 169L	1199.2		"	2000.0		60.0	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 188L	1156.8		"	2000.0		57.8	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 189L	1151.2		"	2000.0		57.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 202L	910.80		"	2000.0		45.5	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 205L	1018.6		"	2000.0		50.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 206L	1078.2		"	2000.0		53.9	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 208L	1088.8		"	2000.0		54.4	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 209L	851.40		"	2000.0		42.6	30-140			
Surrogate: <sup>13</sup> C PCB Congener # 28L	1435.8		"	1960.0		73.3	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 111L	1369.2		"	1940.0		70.6	40-125			
Surrogate: <sup>13</sup> C PCB Congener # 178L	1397.6		"	1820.0		76.8	40-125			
PCB Congener # 1	100	100	"	100.00		103	30-170			MRL-2
PCB Congener # 3	100	100	"	100.00		99.8	30-170			MRL-2, Q-2
PCB Congener # 4	140	100	"	100.00		136	30-170			MRL-2
PCB Congener # 15	140	100	"	100.00		139	30-170			MRL-2
PCB Congener # 19	94	100	"	100.00		93.8	30-170			MRL-2, Q-2, J
PCB Congener # 37	110	100	"	100.00		111	30-170			MRL-2
PCB Congener # 54	100	100	"	100.00		100	30-170			MRL-2



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**PCB Congeners (PCBC) - Quality Control**  
**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1209027 - E 1668</b>										
<b>MRL Verification (1209027-PS1)</b>					Prepared: 09/07/12 Analyzed: 09/12/12					
PCB Congener # 77	97	100	pg/L	100.00		96.8	30-170			MRL-2, Q-2, J
PCB Congener # 81	92	100	"	100.00		92.4	30-170			MRL-2, Q-2, J
PCB Congener #104	87	100	"	100.00		87.0	30-170			MRL-2, Q-2, J
PCB Congener #105	110	100	"	100.00		110	30-170			MRL-2
PCB Congener #114	88	100	"	100.00		88.2	30-170			MRL-2, Q-2, J
PCB Congener #118	99	100	"	100.00		99.2	30-170			MRL-2, Q-2, J
PCB Congener #123	97	100	"	100.00		96.8	30-170			MRL-2, Q-2, J
PCB Congener #126	96	100	"	100.00		95.8	30-170			MRL-2, Q-2, J
PCB Congener #155	91	100	"	100.00		90.8	30-170			MRL-2, Q-2, J
PCB Congener #156 and/or 157	200	100	"	200.00		98.9	0-200			MRL-2
PCB Congener #167	92	100	"	100.00		92.0	30-170			MRL-2, Q-2, J
PCB Congener #169	92	100	"	100.00		92.2	30-170			MRL-2, Q-2, J
PCB Congener #188	83	100	"	100.00		82.8	30-170			MRL-2, Q-2, J
PCB Congener #189	99	100	"	100.00		98.8	30-170			MRL-2, Q-2, J
PCB Congener #202	140	100	"	100.00		140	30-170			MRL-2
PCB Congener #205	110	100	"	100.00		114	30-170			MRL-2
PCB Congener #206	330	100	"	100.00		328	30-170			MRL-2, QR-2
PCB Congener #208	190	100	"	100.00		192	30-170			MRL-2, QR-2
PCB Congener #209	670	500	"	500.00		134	30-170			MRL-2



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**Notes and Definitions for QC Samples**

- U The analyte was not detected at or above the reporting limit.
- B-2 Reporting level elevated due to trace amounts of analyte present in the method blank.
- B-3 Level in blank does not impact data quality
- B-4 Level in blank impacts MRLs.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QR-2 MRL verification recovery greater than upper control limits.

### NCDWQ RAW FISH TISSUE DATA

Station ID \_\_\_\_\_ Description Falls Res. Subbasin 030708 HUC 03040103  
 County Stanly/Montgomery Latitude 35.41484 Longitude -80.09026  
 Collection Date 8/6/12 Processing Date 9/19/12 Date To Lab \_\_\_\_\_  
 Station Comments Superfund/EPA Yadkin River PCB study

Species Code	Total Length (mm)	Weight (g)	DWQ Number	Comments
LMB	402	929	12-195	} FC4 - also FR101 Top
"	370	829	"	
"	386	893	"	
"	393	1050	"	
LMB	327	572	12-196	} FC6 - also FR102 Top
"	345	594	"	
"	340	586	"	
"	360	682	"	
"	345	603	"	
"	305	416	"	
LMB	515	2365	12-197	} FC3 - also FR103 Top
"	490	1956	"	
"	532	2911	"	
LMB	433	1208	12-198	} FC3 - also FR104 Top
"	458	1678	"	
"	468	1589	"	
FHC	650	3365	12-199	individual - also FR105 Top
BGS	182	120	12-200	} FC6 - also FR101 Mid
"	182	101	"	
"	177	100	"	
"	174	91	"	
"	163	80	"	
"	171	85	"	
BGS	159	79	12-201	} FC6 - also FR102 Mid
"	169	73	"	
"	163	72	"	
"	155	68	"	
"	153	60	"	
"	147	53	"	

LMB =  
Large mouth  
Bass

FHC =  
Flathead  
Catfish

BGS =  
Bluegill  
Sunfish

FC = Fillet  
Composite



# NCDWQ RAW FISH TISSUE DATA

Station ID \_\_\_\_\_ Description Falls Res. Subbasin 030708 HUC 03040103  
 County Stanly/Montgomery Latitude 35.41484 Longitude -80.09026  
 Collection Date 8/6/12 Processing Date 9/19/12 Date To Lab \_\_\_\_\_  
 Station Comments Superfund / EPA Yadkin River PCB study

Species Code	Total Length (mm)	Weight (g)	DWQ Number	Comments
RBS	171	102	12-202	} FC3 - also FR103 Mid
"	172	109	"	
"	178	111	"	
RBS	153	63	12-203	} FC4 - also FR104 Mid
"	156	65	"	
"	158	77	"	
"	155	66	"	
YP	264	250	12-264	individual - also FR105 Mid
BC	900	9631	12-205	} FC2 - also FR101 Bot
"	835	7707	"	
BC	615	2476	12-206	} FC2 - also FR102 Bot
"	660	3606	"	
BC	560	2373	12-207	} FC2 - also FR103 Bot
"	529	1813	"	
CHC	500	1355	12-208	individual - also FR104 Bot
CHC	360	394	12-209	} FC3 - also FR105 Bot
"	345	355	"	
"	355	384	"	

RBS =  
Redbreast  
Sunfish

YP =  
Yellow  
Perch

BC =  
Blue  
Cattfish

CHC =  
Channel  
Cattfish

FC = Fillet  
Composite