CONGENER-SPECIFIC ANALYSIS OF POLYCHLORINATED BIPHENYL RESIDUES IN TREE SWALLOW CHICKS, EGGS AND OTHER BIOTA FROM THE HUDSON RIVER, W.U. 30096

USGS FINAL LABORATORY REPORT FY-97-30-01
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HUDSON RIVER NATURAL RESOURCE DAMAGE ASSESSMENT

HUDSON RIVER NATURAL RESOURCE TRUSTEES

STATE OF NEW YORK

U.S. DEPARTMENT OF COMMERCE

U.S. DEPARTMET OF THE INTERIOR

FINAL

AUGUST 1, 2011

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Silver Spring, MD 20910-3281

EXECUTIVE SUMMARY

Past and continuing discharges of polychlorinated biphenyls (PCBs) have contaminated the natural resources of the Hudson River. The Hudson River Natural Resource Trustees – New York State, the U.S. Department of Commerce, and the U.S. Department of the Interior – are conducting a natural resource damage assessment (NRDA) to assess and restore those natural resources injured by PCBs.

The Hudson River and surrounding area support more than 150 species of birds, including waterfowl, wading birds, shorebirds, songbirds, and raptors. These birds are an integral part of the ecosystem and provide a number of important ecosystem services such as seed distribution, plant pollination, and insect control. Birds are also an important source of prey to other species. Birds may be exposed to PCBs through direct ingestion of contaminated water, sediment, and soil. A more important exposure pathway is likely their consumption of food items that contain PCBs derived from the Hudson River and its floodplain. PCB contaminated food items linked to the river may include fish, amphibians, benthic invertebrates, adult insects that develop from aquatic larvae, plants growing in or near the river, and mammals that forage in the floodplain. Birds are valued by the public through participation in activities such as bird-watching, nature study, and bird-feeding.

Among the avian species for which the Hudson River provides habitat, and which have been exposed to PCBs, are the tree swallow (*Tachycineta bicolor*), the wood duck (*Aix sponsa*), and the mallard (*Anas platyrhynchos*). As part of the NRDA, the Trustees are documenting exposure of the natural resources of the Hudson River to PCBs. The Trustees have collected samples from these avian species for contaminants analysis.

This report addresses tree swallow (eggs, pre-fledgling chicks and adults), wood duck (eggs and adults) and mallard (eggs and adults) samples collected from the Hudson River in 1995 and analyzed by the U.S. Geological Survey, Biological Resources Division, Columbia Environmental Research Center in Columbia, Missouri. Insect samples were also collected and analyzed.

Specifically this report provides the analytical results for the following fifty-two samples which were analyzed for total PCBs and selected congeners:

- 4 adult wood duck samples;
- 4 wood duck egg composites,
- 1 mallard egg composite;
- 1 mallard hen composite;
- 11 tree swallow egg composites;
- 21 tree swallow chick composites;
- 3 adult tree swallow samples; and
- 7 insect samples.

Within this set of samples, total PCB concentration in the tree swallow egg composite samples ranged from 103 parts per billion (ppb) fresh wet weight (fww) to 24,890 ppb fww.

Midwest Science Center
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November 25, 1996

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Subject: Results of the congener-specific PCB analysis of tree swallow chicks, eggs and other biota from the Hudson River.

Sample History:

The purpose of this study is to determine whether migratory birds can accumulate detrimental levels of PCBs from various areas along the Hudson River. The indicator species chosen was the Tree Swallow (Tachycineta bicolor). Eggs, pre-fledgling chicks and adult tree swallows have been assessed for contaminant concentrations. Additionally, other biota were analyzed--insects which are the food of the tree swallows and two species of ducks. Higher burdens of PCBs in the chicks than those in the eggs represent local accumulation. Studies have indicated that pre-fledgling chicks can accumulate contaminants from sediment via consumption of adult midges, an emergent insect that comprises a large proportion of their diet. Since these midges spend their larval stages in sediment and emerge as breeding adults that do not feed, the contaminants that they contain must be derived from the sediment.

Analytical Methods Summary:

Sample Preparation: The samples were assigned individual data-base identification numbers and kept frozen until the initiation of sample processing. Samples were thawed at room temperature. Egg samples were homogenized in a blender and chick, adult bird and duck samples were ground. Matrix QC samples (blanks and spikes) prepared from chicken eggs, samples of MSC's standard positive control matrix (DB# 6806, common carp tissue), and procedural blanks were processed concurrently with the actual samples. The dehydrated samples were spiked with PCB congeners 030 and 204 as procedural internal standards (PIS). The sample/sodium sulfate mixture was homogenized in a blender, packed in an extraction column and extracted with CH_2Cl_2. The resultant extract was concentrated by rotoevaporation, taken through two stages of reactive column clean-up, followed by high performance gel permeation chromatography (1).

Capillary Gas Chromatography/ Electron Capture Detection (CGC/ECD) for congener PCB analysis: Aliquants (1 μL) of purified sample extracts were analyzed by CGC/ECD to measure the residues of the PCB congeners (cPCBs) listed in Table 1. The CGC/ECD analyses were performed as described in MSC SOP C5.154 (2). All CGC/ECD analyses were performed using Hewlett-Packard 5890 Series II GCs with cool on-column capillary injection systems. Analyses were automated using the Hewlett-Packard model 7673 autosamplers. The fused silica capillary column used was a 60-m x 0.25-mm id DB-5 (0.25 μm thick cross-linked and bonded 5% phenyl-, 95% dimethyl-polysiloxane film, J&W Scientific, Inc.). A 2-m x 0.53-mm id section of uncoated and deactivated (Restek Corp, Inc.) capillary retention gap was attached to the front of the analytical columns by a Press-Tight™ (Restek Corp, Inc.) union. The ECD temperature was 330°C, the H_2-carrier was pressure regulated at 25 psi for the 60-m capillary column. The total ECD gas flow (make-up N_2 + H_2 carrier) was about 64 mL/min. The GC oven temperature program started at 60°C, was immediately ramped to 140°C at 10°/min, then ramped at 1.5°/min to 240°C with a 13 minute hold, and finally ramped to 290°C at 10°/min and held for 8 minutes. Capillary GC/ECD data were collected, archived in digital form, and processed using a PE-Nelson chromatography data system which includes the model 900 interface and Turbochrom™ (version 4.2) chromatography software running on an IBM-compatible 80486 microcomputer.

We used 6 levels of A1111 mixed Aroclor standards (composed of equal parts, w/w/w/w%, of Aroclors 1242, 1248, 1254, and 1260) for instrument calibration. Concentrations of these A1111 standards ranged from 50 to 2000 ng/mL for each Aroclor (1242, 1248, 1254, and 1260) or 200 to 8,000 ng/mL of *total* PCBs. To calculate the concentrations of the analytes, we used an internal standard method with octachloronaphthalene (OCN), spiked at 50 ng/mL, as the instrumental internal standard (IIS). Recovery of procedural internal standards (PIS) spiked into the samples were PCBs 030 and 204. Recoveries of these are presented in Table 3. All sample final concentrations are reported in nanograms/gram (ng/g) wet weight uncorrected for recovery (Table 1).

Results and Discussion:

Quality Control Procedures: Two procedure blanks (PB) analyzed with the set of samples verified that solvents, reagents, lab-ware, and instrumentation did not add significant positive biases to the residue concentrations (Table 2). One PB did have a background of PCBs with tPCBs averaging around 46 ng/g compared to 4 - 10 ng/g for the other PBs. Matrix effects were assessed in a similar manner by the analysis of aliquants of chicken egg and bluegill tissue matrix blanks (MB). Table 2 also lists the experimentally determined method detection limits (MDLs) and method quantitation limits (MQLs) for congener PCBs, determined from the procedural blanks according to the method outlined by Keith *et al.*(4,5). Since not all of the compounds analyzed showed positive responses, the average MDL and MQL were determined and used. The average MDL of congener PCBs was 0.85 ng/g; the average MQL was 2.33 ng/g (Table 2).

Extraction efficiencies were monitored by the analysis of matrix spikes (MS) prepared from chicken eggs and bluegill tissue. PCBs (mixed Aroclors 1242, 1248, 1254, 1260 in a 1:1:1:1 ratio) were spiked into clean matrix samples at concentrations of 500 ng/g total PCBs. Recoveries of total PCBs averaged 68 $\pm$ 8% (Table 2). The recoveries of spiked recovery standards 030 and 204 in the samples are presented in Tables 3. Recoveries of 030 and 204 averaged 100 $\pm$ 9% and 82 $\pm$12% respectively for the set of samples. Total method variability was assessed by analysis of triplicate aliquants of three samples: 12400, 12402 and 12511 (Table 2). The total variability for these samples averaged 4 $\pm$ 2%. Instrumental variability was checked by triplicate injections of several sample extracts. The gas chromatographic variability averaged 5 $\pm$ 3% for these samples. Aliquants of environmentally incorporated positive control tissue (PC), common carp from Saginaw Bay, were analyzed with the samples. The baseline data for our positive control tissue and the comparison with present data are shown in Table 2 (6).

Residue Results: The PCB congener concentrations (Table 1) are reported in ng/g wet weight and were not corrected for PIS losses. The samples are listed according to their MSC Chemistry Division Data Base number and cross referenced to the field description. Percent lipid values were reported for all samples, except two. Residue concentrations (ng/g) that were less than the MDL (0.85 ng/g) are listed as "< MDL value" and concentrations for compounds that are greater than the MDL and less than the MQL (2.33 ng/g) are replaced by "< MQL value" in Tables 1, 2.

REFERENCES

(1) Meadows, J.; 1991. MSC SOP: C5.143. "Extraction of PCBs, PCDDs, and PCDFs from tissue samples, and cleanup of the extracts in preparation for GC/ECD analysis for PCBs, then fractionation of the extracts on dispersed carbon."

(2) Zajicek, J.L.; 1991. MSC SOP: C5.154. "Capillary Gas Chromatography with Electron Capture Detection

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(3) Keith, L.H.; Crummet, W; Deegan, J., Jr; Libby, R.A.; Taylor, J.K.; and Wentler, G. 1983. "Principles of environmental analysis." Anal. Chem. 55: 2210-2218.

(4) Keith, L.H.; 1991. Environmental Sampling and Analysis. Lewis Publishers.

(5) unpublished baseline tracking data for congener PCBs in Saginaw Carp positive control.

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	Sample Matrix	Grams Extracted	% Lipid	004,010	007,009	006	005,008	019	018	017,015	024,027	016,032	029	026
12396	HUDBUG-2	Insect	9.44	3.6	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.48	< 0.85	< 0.85	< 0.85	< 0.85
12397	HUDBUG-3	Insect	10.00	5.6	4.63	< 0.85	< 0.85	< 0.85	6.40	2.63	2.74	< 2.33	2.97	< 0.85	< 2.33
12398	HUDBUG-4	Insect	10.00	4.0	11.42	< 0.85	< 0.85	< 2.33	< 2.33	< 2.33	3.49	< 0.85	< 2.33	< 0.85	< 2.33
12399	HUDWDE-1	Wood Duck Egg Composite	10.00	14.9	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12400 A	HUDWDE-2	Wood Duck Egg Composite	10.00	15.0	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	19.07	< 0.85	< 0.85	< 0.85	< 2.33
12400 B	HUDWDE-2	Wood Duck Egg Composite	10.00	15.2	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	18.33	< 0.85	< 0.85	< 0.85	< 2.33
12400 C	HUDWDE-2	Wood Duck Egg Composite	10.00	14.8	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	16.89	< 0.85	< 0.85	< 0.85	< 2.33
12401	HUDWDA-3	Adult Wood Duck Hen	25.00	1.4	4.66	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33
12402 A	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	3.20	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	7.19	< 0.85	< 2.33	< 0.85	< 2.33
12402 B	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	2.75	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	6.49	< 0.85	< 2.33	< 0.85	< 2.33
12402 C	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	2.82	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	7.38	< 0.85	< 2.33	< 0.85	< 2.33
12403	HUDMLE-4	Mallard Egg Composite	10.00	13.7	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	4.02	< 0.85	< 0.85	< 0.85	< 2.33
12404	HUDMLA-3	Two Mallard Hen Composite	25.00	4.1	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33
12405	TS-E100	Tree Swallow Egg Composite	10.00	8.9	3.88	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	4.87	< 2.33	2.36	< 0.85	2.78
12406	TS-C100	Tree Swallow Chick Composite	10.00	5.1	5.93	< 0.85	< 0.85	< 0.85	3.64	3.17	5.58	2.36	6.02	< 0.85	4.30
12407(a)	TS-A100	Tree Swallow Adult Female	10.00	8.3	< 2.33	< 0.85	< 0.85	4.13	6.06	41.22	49.59	3.64	36.91	3.21	22.01
12408(a)	TS-E204	Tree Swallow Egg Composite	2.51	7.2	11.08	2.33	< 2.33	14.28	16.98	154.42	151.01	13.24	111.43	10.47	110.39
12409	TS-C204-5	Tree Swallow Chick Composite	7.32	2.9	19.11	3.34	2.37	21.58	25.28	282.73	146.54	15.15	216.89	10.95	94.32
12410	TS-C204-10	Tree Swallow Chick Composite	10.00	7.1	115.15	30.46	33.19	240.43	89.33	1105.74	1090.05	51.72	1072.33	45.01	373.55
12411	TS-C204-15	Tree Swallow Chick Composite	10.00	9.5	75.33	13.78	7.89	136.49	115.79	895.07	1145.46	128.81	1381.52	71.39	712.88
12412	TS-E227	Tree Swallow Egg Composite	4.14	7.7	11.75	4.18	3.20	31.89	16.81	207.43	156.12	14.23	155.57	12.37	134.21
12413	TS-C227-5	Tree Swallow Chick Composite	10.00	4.1	17.52	< 2.33	< 2.33	6.64	31.79	298.81	163.48	13.83	124.80	6.80	73.91
12414	TS-C227-10	Tree Swallow Chick Composite	10.00	7.6	47.78	8.17	10.31	68.63	70.80	758.03	603.80	32.34	437.51	27.36	272.03
12415	TS-C227-15	Tree Swallow Chick Composite	10.00	10.5	119.82	29.13	27.25	251.51	123.33	1237.56	1464.92	79.22	1533.33	56.14	606.68
12416	TS-E313	Tree Swallow Egg Composite	3.48	5.7	271.36	4.77	5.35	50.02	27.63	81.59	75.39	10.14	95.80	6.04	75.54
12417	TS-C313-5	Tree Swallow Chick Composite	10.00	3.6	46.99	< 2.33	< 2.33	9.52	27.74	138.18	103.45	13.36	82.81	3.19	38.33
12418	TS-C313-15	Tree Swallow Chick Composite	10.00	7.6	115.98	4.49	4.77	35.30	57.94	194.29	189.16	28.24	230.54	8.33	114.75
12419	TS-E340	Tree Swallow Egg Composite	3.50	4.3	15.58	< 2.33	< 0.85	4.09	3.76	12.17	11.54	4.15	19.47	< 2.33	21.42
12420	TS-C340-15	Tree Swallow Chick Composite	10.00	8.7	35.87	< 2.33	3.36	13.20	25.26	125.13	159.29	19.50	167.33	6.24	107.94
12421	TS-E337	Tree Swallow Egg Composite	3.83	7.0	25.47	< 2.33	< 2.33	10.92	7.42	27.08	44.85	7.18	37.80	< 2.33	31.64
12422	TS-C337-15	Tree Swallow Chick Composite	10.00	9.5	102.44	7.34	9.67	66.43	89.55	376.94	440.82	47.35	337.72	16.80	163.53
12423	TS-C339-5	Tree Swallow Chick Composite	10.00	5.2	44.55	3.12	3.12	13.35	21.39	154.45	101.96	12.14	137.81	3.46	53.27
12424(a)	TS-C339-10	Tree Swallow Chick Composite	10.00	5.7	138.08	5.49	7.66	36.75	64.86	232.61	188.52	22.22	218.95	10.93	108.28
12425	TS-C339-15	Tree Swallow Chick Composite	10.00	6.2	310.87	16.39	20.68	119.40	131.49	374.42	453.53	51.63	526.79	32.77	260.81
12426	TS-S315	Tree Swallow (salvaged)	7.97	4.3	22.37	< 0.85	< 0.85	< 2.33	31.99	104.88	88.74	19.59	81.98	4.57	61.85
12427	TS-A322	Tree Swallow Adult Female	10.00	7.1	24.69	< 0.85	< 0.85	< 2.33	55.27	21.39	34.33	33.02	63.39	19.52	47.89
12428	TS-E411	Tree Swallow Egg Composite	4.11	7.5	92.48	< 0.85	< 2.33	6.21	17.30	12.23	20.62	9.19	18.94	< 2.33	21.03
12429	TS-C411-15	Tree Swallow Chick Composite	10.00	7.3	115.37	< 2.33	< 2.33	15.09	62.45	32.48	40.79	24.95	65.78	2.36	51.17
12430	TS-E421	Tree Swallow Egg Composite	4.52	8.0	30.61	< 0.85	< 0.85	< 2.33	7.90	3.90	9.40	5.35	8.07	< 0.85	7.59
12431	TS-C421-15	Tree Swallow Chick Composite	10.00	6.2	29.65	< 0.85	< 0.85	2.35	21.61	7.01	11.08	14.87	24.80	< 2.33	33.95
12432	TS-E426	Tree Swallow Egg Composite	3.15	8.3	55.77	< 2.33	< 2.33	3.05	12.94	5.57	7.64	7.47	13.37	< 2.33	12.67
12433	TS-C426-15	Tree Swallow Chick Composite	10.00	7.1	34.56	< 0.85	< 2.33	4.28	23.87	11.17	18.50	13.19	33.53	< 2.33	36.27
12434	TS-E500	Tree Swallow Egg Composite	10.00	6.8	37.63	< 0.85	< 0.85	2.68	10.26	4.79	10.70	6.65	15.23	< 2.33	12.04
12435	TS-C500	Tree Swallow Chick Composite	10.00	8.8	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 2.33
12436(c)	HUDBUG-A	Insect Mouth Sample & Insect	0.17	---	< 0.85	20.21	9.02	6.17	< 0.85	4.28	11.25	< 0.85	< 0.85	< 0.85	< 0.85
12437	HUDBUG-B	Insect Mouth Sample	2.08	3.9	30.35	8.86	5.35	66.73	22.98	293.00	253.04	16.50	313.84	20.71	124.36
12438	HUDBUG-C	Insect Mouth Sample	2.90	3.1	96.15	2.85	3.37	15.96	24.68	105.99	95.96	9.99	92.44	2.69	32.98
12439(c)(d)	HUDBUG-D	Insect Mouth Sample	0.51	---	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12440	TS-EITH	Tree Swallow Egg Composite	6.07	7.1	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 A	TS-CITH	Tree Swallow Chick Composite	10.00	7.2	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	Tree Swallow Chick Composite	10.00	7.5	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	Tree Swallow Chick Composite	10.00	7.9	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	025	031	028	020,033	053	051	022	045	046	052	043	049	047	048	044
12396	HUDBUG-2	4.20	3.84	76.38	< 0.85	< 0.85	< 0.85	7.54	< 0.85	< 0.85	16.46	< 0.85	38.22	< 0.85	104.30	7.59
12397	HUDBUG-3	< 2.33	3.23	31.75	< 2.33	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	14.11	< 0.85	16.98	24.41	3.32	5.08
12398	HUDBUG-4	< 2.33	< 2.33	19.96	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	12.64	< 0.85	16.47	18.94	< 2.33	2.35
12399	HUDWDE-1	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12400 A	HUDWDE-2	< 0.85	11.95	219.78	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	24.04	< 0.85	27.77	159.37	3.64	< 0.85
12400 B	HUDWDE-2	< 0.85	12.23	197.39	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	23.12	< 0.85	26.91	155.29	4.02	< 0.85
12400 C	HUDWDE-2	< 0.85	10.79	200.32	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	21.91	< 0.85	25.46	148.45	2.95	< 0.85
12401	HUDWDA-3	< 0.85	< 2.33	10.41	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	2.88	< 0.85	< 2.33	2.38	8.16	< 0.85
12402 A	HUDWDA-4	< 0.85	< 2.33	36.83	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	4.92	< 0.85	5.14	24.47	< 2.33	< 0.85
12402 B	HUDWDA-4	< 0.85	2.44	38.06	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	5.06	< 0.85	5.23	25.08	< 2.33	< 0.85
12402 C	HUDWDA-4	< 0.85	< 2.33	40.35	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	5.27	< 0.85	5.32	25.16	2.75	< 0.85
12403	HUDMLE-4	< 0.85	8.88	145.12	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	15.56	< 0.85	13.19	69.89	< 2.33	< 2.33
12404	HUDMLA-3	< 2.33	12.39	269.91	2.89	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	19.32	< 0.85	9.41	180.72	22.03	2.71
12405	TS-E100	5.00	87.09	318.49	< 2.33	10.13	< 2.33	< 2.33	< 0.85	< 0.85	440.82	< 0.85	284.74	153.80	50.71	11.17
12406	TS-C100	3.48	23.63	89.78	< 2.33	11.80	2.83	5.35	< 0.85	< 2.33	125.43	< 0.85	117.24	64.37	11.72	43.29
12407(a)	TS-A100	30.66	428.71	1438.01	23.32	60.49	11.79	19.51	4.81	4.83	2428.59	4.58	2084.19	1111.19	170.57	118.66
12408(a)	TS-E204	91.66	555.50	1632.90	63.78	161.40	47.63	71.89	20.00	31.55	2949.36	17.57	2230.95	1289.65	208.64	538.12
12409	TS-C204-5	60.85	414.39	1040.49	129.23	96.17	42.42	141.84	61.75	29.33	1114.79	24.65	1048.72	611.44	303.65	586.71
12410	TS-C204-10	325.83	1467.69	5607.26	951.29	256.86	116.54	896.91	173.23	78.13	4125.12	31.61	4571.99	1609.58	2157.68	1969.56
12411	TS-C204-15	779.47	5871.02	10662.47	446.59	957.00	328.48	962.95	117.75	119.09	9044.76	32.63	9602.52	4894.44	1957.37	3720.56
12412	TS-E227	85.93	1167.58	2608.70	137.57	106.91	34.65	122.20	20.95	36.13	2816.52	22.34	2200.18	1384.31	197.34	530.40
12413	TS-C227-5	42.69	188.22	934.46	62.72	108.55	38.93	67.19	65.15	37.64	1130.04	14.98	962.40	524.70	240.50	527.99
12414	TS-C227-10	231.33	1435.94	4092.68	410.92	317.40	75.98	410.73	109.29	71.59	3184.14	36.95	3640.87	1989.70	805.24	1656.11
12415	TS-C227-15	504.24	3241.78	9052.58	13.93	1338.59	185.24	1088.54	146.06	119.28	7837.98	32.38	8323.75	3324.00	3363.15	3766.02
12416	TS-E313	51.06	412.09	976.96	54.91	51.65	10.94	60.84	5.99	4.14	925.51	< 0.85	850.16	754.29	156.88	122.37
12417	TS-C313-5	36.42	126.92	377.43	45.15	68.80	25.01	90.06	38.09	16.47	574.15	12.62	681.98	366.41	204.42	286.05
12418	TS-C313-15	104.82	825.62	2284.77	88.16	144.65	52.98	303.82	33.13	30.79	1820.07	10.33	2496.31	1571.63	311.15	1028.20
12419	TS-E340	17.61	710.10	1695.53	34.47	63.74	14.01	14.27	< 2.33	< 2.33	1916.67	4.34	1218.41	981.50	133.63	91.63
12420	TS-C340-15	94.02	451.15	1667.38	76.74	131.63	45.43	131.98	19.40	25.51	2058.71	2.33	2153.43	1267.05	200.88	618.85
12421	TS-E337	21.92	361.89	1015.11	22.44	59.96	9.69	21.61	2.43	3.00	1039.33	< 2.33	678.69	441.35	29.15	76.36
12422	TS-C337-15	190.30	1171.35	3611.81	161.24	267.54	82.06	416.28	82.76	73.54	2827.94	12.73	3593.56	2160.12	711.30	1605.89
12423	TS-C339-5	50.34	185.44	647.28	42.95	45.03	20.88	113.63	35.46	12.87	686.02	5.21	823.62	516.04	166.35	322.56
12424(a)	TS-C339-10	88.10	612.49	1611.06	157.53	92.44	41.24	248.84	43.73	22.66	1305.34	13.28	1608.54	980.87	320.02	640.62
12425	TS-C339-15	203.10	994.98	3488.67	642.68	132.49	70.27	56.48	71.95	39.20	2741.17	21.44	3244.95	1689.27	1148.36	1112.23
12426	TS-S315	66.34	513.40	1656.61	15.92	106.13	40.37	87.34	30.87	28.73	1812.42	7.44	1914.25	1154.73	226.02	717.07
12427	TS-A322	52.12	2290.15	9042.74	69.26	138.40	42.43	19.51	4.36	8.70	10597.12	5.76	11348.72	7826.87	124.62	197.10
12428	TS-E411	11.22	135.02	345.80	2.58	47.13	5.61	7.16	< 2.33	< 2.33	750.32	4.39	558.70	421.96	10.07	42.72
12429	TS-C411-15	15.90	81.27	95.59	3.90	46.46	16.56	9.38	4.32	3.01	262.34	< 2.33	248.84	207.52	26.45	61.60
12430	TS-E421	4.79	54.18	138.96	< 2.33	22.03	2.86	< 2.33	< 0.85	< 0.85	261.94	< 0.85	199.58	160.06	7.39	14.27
12431	TS-C421-15	11.86	67.28	68.42	< 0.85	37.55	11.32	3.99	< 2.33	< 2.33	262.14	2.34	233.60	122.99	30.03	53.98
12432	TS-E426	9.59	129.57	360.94	< 0.85	24.65	3.54	4.50	< 0.85	< 2.33	1018.53	< 0.85	634.34	402.84	474.87	21.98
12433	TS-C426-15	10.59	59.98	93.82	2.53	45.39	13.53	5.54	< 2.33	< 2.33	243.58	< 2.33	208.65	133.93	15.23	55.30
12434	TS-E500	7.21	38.67	105.27	< 2.33	20.97	4.82	2.96	< 0.85	< 0.85	206.79	< 0.85	152.10	96.80	5.72	19.79
12435	TS-C500	< 0.85	3.67	8.52	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	25.27	< 0.85	22.47	15.28	3.94	2.45
12436(c)	HUDBUG-A	24.81	< 2.33	19.40	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	18.08	< 0.85	11.65	27.68	< 0.85	6.18
12437	HUDBUG-B	122.90	446.21	1192.50	375.62	141.43	43.51	316.47	66.17	18.87	1293.62	12.89	1411.52	758.06	494.68	633.85
12438	HUDBUG-C	34.61	215.11	535.56	36.69	43.31	17.35	99.44	30.46	9.50	433.70	5.73	556.28	302.17	131.95	265.98
12439(c)(d)	HUDBUG-D	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12440	TS-EITH	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	2.97	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	042	041	064	040	067	063	074	070,076	066	095	091	056,060	092	084	101
12396	HUDBUG-2	77.66	< 2.33	6.08	2.71	< 2.33	22.43	213.83	9.06	50.97	10.86	2.74	35.64	3.81	< 2.33	24.81
12397	HUDBUG-3	7.59	2.70	3.87	< 2.33	< 2.33	9.56	96.80	9.44	38.33	5.63	< 2.33	17.17	2.63	< 2.33	12.46
12398	HUDBUG-4	7.94	< 0.85	2.34	< 0.85	< 0.85	4.85	37.86	< 2.33	< 0.85	4.19	< 2.33	5.42	2.57	< 0.85	8.07
12399	HUDWDE-1	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12400 A	HUDWDE-2	4.44	< 0.85	< 2.33	< 0.85	< 2.33	36.18	208.98	8.68	7.83	7.59	< 2.33	36.51	30.51	< 0.85	23.51
12400 B	HUDWDE-2	4.53	< 0.85	< 2.33	< 0.85	< 2.33	35.21	188.93	8.92	7.30	8.73	< 2.33	35.30	29.83	< 0.85	22.63
12400 C	HUDWDE-2	4.02	< 0.85	< 2.33	< 0.85	< 2.33	33.71	193.11	8.24	7.16	7.18	< 2.33	33.63	28.45	< 0.85	21.51
12401	HUDWDA-3	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	7.42	39.86	< 2.33	3.08	8.80	< 0.85	< 2.33	< 2.33	< 0.85	< 2.33
12402 A	HUDWDA-4	11.34	< 0.85	< 0.85	< 0.85	< 0.85	7.87	36.50	< 2.33	24.65	4.12	< 0.85	4.44	5.61	< 0.85	4.51
12402 B	HUDWDA-4	12.17	< 0.85	< 0.85	< 0.85	< 0.85	8.04	37.48	< 2.33	26.68	3.96	< 0.85	4.40	5.82	< 0.85	4.51
12402 C	HUDWDA-4	13.68	< 0.85	< 0.85	< 0.85	< 0.85	8.43	39.26	< 2.33	27.80	4.29	< 0.85	4.60	6.19	< 0.85	4.74
12403	HUDMLE-4	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	30.13	148.18	10.06	5.57	2.45	< 2.33	27.16	9.76	2.55	13.05
12404	HUDMLA-3	15.55	< 2.33	2.36	< 0.85	< 0.85	115.33	666.38	17.86	34.32	6.92	3.83	88.09	26.11	< 2.33	42.30
12405	TS-E100	69.64	7.46	58.07	3.80	6.13	45.92	198.82	198.36	346.67	65.89	39.03	98.12	53.66	24.34	212.52
12406	TS-C100	66.11	11.84	28.58	5.99	4.92	13.03	79.87	63.34	5.95	13.45	12.22	38.06	14.89	5.77	73.85
12407(a)	TS-A100	112.37	80.70	12.48	22.47	56.16	203.89	1344.69	1581.80	1088.52	1175.43	297.34	412.03	254.56	16.60	1128.12
12408(a)	TS-E204	378.09	296.00	414.63	80.68	75.89	259.50	1538.80	1289.15	983.71	543.22	255.54	370.82	291.52	94.70	778.98
12409	TS-C204-5	662.22	274.64	361.06	107.40	58.12	122.55	799.79	849.94	1417.38	235.46	116.41	401.94	96.13	65.77	508.59
12410	TS-C204-10	2416.12	1381.77	748.89	373.41	160.03	281.37	2430.34	3412.50	4176.54	1731.91	393.29	1334.77	393.53	266.18	1412.40
12411	TS-C204-15	6273.49	2619.93	2755.57	377.87	540.94	591.48	5459.39	46.97	468.02	507.83	627.77	2563.63	436.06	274.04	2793.04
12412	TS-E227	1019.41	233.79	498.24	111.33	62.89	240.77	1436.25	1560.06	120.11	238.82	213.04	597.74	204.56	69.96	829.21
12413	TS-C227-5	603.94	173.24	271.93	95.85	41.99	86.14	595.88	539.72	409.60	512.58	90.72	178.96	88.57	65.01	339.55
12414	TS-C227-10	2616.22	787.03	1032.51	230.47	190.41	256.45	2235.88	2407.47	152.00	277.16	237.11	1009.22	199.53	149.67	1231.20
12415	TS-C227-15	3947.64	2183.52	2497.96	520.29	427.61	529.79	4505.71	6325.41	5778.59	4084.79	472.15	2199.05	712.06	370.55	2579.06
12416	TS-E313	377.46	64.67	215.01	28.85	34.20	233.83	929.98	689.60	825.90	304.96	136.84	220.37	127.66	11.10	357.83
12417	TS-C313-5	423.50	92.81	198.39	77.93	33.24	76.68	402.77	279.06	241.98	144.77	75.16	116.75	81.01	50.80	271.16
12418	TS-C313-15	1648.65	338.37	831.88	133.55	80.70	211.79	1550.19	1351.10	101.94	171.06	154.34	690.09	186.74	88.46	1040.54
12419	TS-E340	334.52	101.90	407.55	18.02	28.28	185.64	956.47	1142.79	81.18	305.17	141.35	332.44	176.55	6.19	530.44
12420	TS-C340-15	851.15	202.93	584.86	90.46	91.69	196.52	1455.51	1239.25	1531.11	1185.78	181.66	463.82	272.33	87.20	1024.62
12421	TS-E337	272.23	45.31	210.64	10.18	23.80	78.81	582.32	632.04	44.26	56.68	66.32	201.12	87.99	19.36	376.59
12422	TS-C337-15	2505.08	530.81	1155.75	285.36	161.71	290.00	2344.82	1792.62	142.49	321.28	233.98	985.35	234.93	119.92	1355.21
12423	TS-C339-5	539.57	132.01	275.51	72.28	36.19	73.74	523.04	452.99	319.82	413.77	73.57	178.43	77.80	48.12	356.93
12424(a)	TS-C339-10	1107.80	274.18	506.82	114.99	71.40	111.94	1109.94	1145.41	76.97	145.20	114.59	546.05	112.12	69.56	686.47
12425	TS-C339-15	1859.25	678.54	885.93	225.72	150.95	278.20	2075.55	2372.45	2297.47	1979.37	334.54	994.20	406.07	174.72	1192.21
12426	TS-S315	1118.03	209.32	599.17	114.57	77.45	194.16	1334.67	1072.45	92.16	161.99	184.13	535.03	175.80	98.93	992.42
12427	TS-A322	1461.84	184.16	2402.94	68.39	136.38	1267.98	9979.43	5447.82	687.27	872.89	1219.98	2986.40	653.58	53.78	6444.07
12428	TS-E411	88.01	26.38	84.86	3.58	15.48	65.40	280.19	230.73	21.74	91.01	73.75	96.67	107.70	12.19	345.66
12429	TS-C411-15	77.17	39.47	48.83	12.01	11.45	27.83	100.02	108.62	165.87	44.26	36.39	38.83	39.55	18.43	120.71
12430	TS-E421	34.66	10.66	27.12	< 2.33	5.29	23.70	99.72	79.50	7.98	20.97	22.63	28.85	30.75	10.44	100.57
12431	TS-C421-15	55.37	35.04	47.87	7.13	11.09	24.26	95.73	93.40	72.47	72.28	40.59	35.28	45.73	16.29	129.56
12432	TS-E426	92.98	11.88	104.15	9.32	15.68	98.93	336.81	306.04	268.28	87.87	98.37	142.19	137.34	4.13	350.88
12433	TS-C426-15	67.00	33.10	41.23	6.47	10.13	22.56	96.06	99.10	7.32	36.14	30.88	39.06	36.26	13.92	115.96
12434	TS-E500	35.51	15.36	28.69	4.04	5.42	16.08	63.21	58.58	92.55	29.81	23.48	23.03	27.38	2.89	85.90
12435	TS-C500	3.57	< 2.33	3.42	< 0.85	< 0.85	2.37	9.51	9.33	10.34	10.13	< 2.33	3.54	2.94	< 2.33	11.88
12436(c)	HUDBUG-A	< 0.85	< 2.33	3.24	< 0.85	< 0.85	< 0.85	8.49	12.44	< 0.85	22.02	< 0.85	2.78	4.86	7.08	36.20
12437	HUDBUG-B	941.09	350.98	421.85	120.32	102.49	123.78	813.09	1281.64	710.08	378.72	140.82	417.53	105.26	67.98	595.59
12438	HUDBUG-C	406.04	84.17	195.46	57.25	27.32	45.59	377.87	352.99	25.16	44.35	44.25	185.02	42.48	23.29	237.12
12439(c)(d)	HUDBUG-D	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12440	TS-EITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85	< 2.33	< 2.33	< 0.85	< 2.33	< 2.33	7.27
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33
12511 C	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	099	119	083	097	087	136	110	082	151	135,144,124	147	107	123,149	118	134
12396	HUDBUG-2	58.41	< 2.33	< 2.33	21.45	11.66	< 0.85	14.09	4.23	< 2.33	< 2.33	< 0.85	3.66	11.56	56.61	< 0.85
12397	HUDBUG-3	29.12	< 0.85	< 0.85	4.46	5.71	< 0.85	3.65	< 2.33	< 2.33	< 2.33	< 0.85	3.26	3.84	36.08	< 0.85
12398	HUDBUG-4	13.57	< 0.85	< 0.85	2.52	< 2.33	< 0.85	3.90	< 0.85	2.60	< 0.85	< 2.33	< 2.33	3.15	12.04	< 0.85
12399	HUDWDE-1	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85
12400 A	HUDWDE-2	114.47	4.08	< 0.85	< 0.85	5.88	< 0.85	11.17	< 0.85	6.70	4.88	4.32	9.51	15.85	112.26	< 0.85
12400 B	HUDWDE-2	111.22	3.80	< 0.85	< 0.85	6.15	< 0.85	10.70	< 0.85	6.46	4.64	3.56	9.62	15.43	108.75	< 0.85
12400 C	HUDWDE-2	105.76	3.46	< 0.85	< 0.85	5.88	< 0.85	10.35	< 0.85	6.21	3.63	4.24	8.59	14.84	104.58	< 0.85
12401	HUDWDA-3	18.75	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	30.65	< 0.85
12402 A	HUDWDA-4	23.06	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	2.73	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	2.53	21.18	< 0.85
12402 B	HUDWDA-4	23.20	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	2.40	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	2.45	21.10	< 0.85
12402 C	HUDWDA-4	24.26	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	3.27	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	2.71	22.62	< 0.85
12403	HUDMLE-4	120.30	< 2.33	< 0.85	< 2.33	7.42	< 0.85	8.82	< 0.85	< 2.33	< 2.33	2.68	9.68	10.14	89.16	< 0.85
12404	HUDMLA-3	399.95	5.68	< 0.85	< 2.33	26.82	< 2.33	24.11	< 0.85	7.51	4.02	24.01	33.87	27.32	448.45	< 0.85
12405	TS-E100	142.11	7.51	< 0.85	16.36	61.13	3.43	117.28	< 2.33	10.75	15.53	6.49	27.05	74.44	253.58	< 0.85
12406	TS-C100	54.48	2.56	2.62	26.29	30.16	< 0.85	43.36	7.02	3.59	4.24	< 2.33	7.97	15.84	70.01	< 0.85
12407(a)	TS-A100	745.96	46.01	12.60	85.97	413.22	21.60	577.04	16.63	54.89	62.56	23.94	84.22	253.15	629.69	< 2.33
12408(a)	TS-E204	632.00	40.47	30.23	205.77	279.03	16.02	439.88	52.45	54.03	95.63	20.09	110.53	316.97	557.00	< 2.33
12409	TS-C204-5	340.79	20.26	33.51	210.89	262.47	9.77	378.91	84.12	21.40	35.66	4.15	41.84	121.87	388.01	4.02
12410	TS-C204-10	926.34	38.25	74.63	532.51	643.40	21.91	882.17	230.03	43.04	97.50	12.33	87.99	201.34	752.98	15.16
12411	TS-C204-15	2147.27	82.14	149.29	1173.68	1396.14	40.26	1939.25	343.75	87.73	175.16	24.09	205.82	451.42	1866.03	18.13
12412	TS-E227	715.57	40.45	24.46	169.17	345.77	15.40	556.60	56.98	49.37	76.77	20.46	88.40	212.71	755.15	4.48
12413	TS-C227-5	244.31	13.39	26.63	128.15	149.06	6.98	188.53	60.49	15.07	28.31	5.13	38.07	87.51	174.67	4.38
12414	TS-C227-10	867.00	34.01	66.06	517.69	586.02	20.24	822.36	174.21	42.24	75.06	11.50	89.17	183.60	830.14	14.07
12415	TS-C227-15	1794.21	63.15	114.87	1089.48	1215.32	35.79	1495.04	367.64	77.70	127.35	15.32	68.10	372.64	1542.66	16.01
12416	TS-E313	335.37	25.51	9.91	66.00	236.07	9.56	179.42	22.47	25.34	48.93	22.88	117.45	187.05	463.03	6.38
12417	TS-C313-5	219.75	11.84	24.17	98.25	115.40	4.30	157.24	52.28	14.61	23.13	5.35	39.15	81.13	150.92	4.11
12418	TS-C313-15	785.09	30.39	53.48	424.98	452.34	13.46	684.88	138.31	45.18	64.30	13.31	75.21	168.68	751.15	6.81
12419	TS-E340	442.29	29.38	5.10	126.02	209.26	16.57	407.82	11.29	33.90	50.41	12.39	60.88	179.26	452.26	< 2.33
12420	TS-C340-15	713.27	33.35	53.32	300.88	405.39	14.43	561.83	78.17	56.79	78.80	13.17	66.02	148.41	578.24	7.19
12421	TS-E337	302.26	16.54	3.36	84.70	141.97	2.96	264.62	12.36	17.79	25.18	8.20	38.85	85.23	299.45	< 0.85
12422	TS-C337-15	1065.11	51.09	90.62	572.93	593.33	23.18	881.22	189.93	75.05	34.06	12.95	< 2.33	196.78	937.56	13.72
12423	TS-C339-5	255.52	11.48	23.93	138.83	153.75	4.41	208.03	47.71	17.24	24.95	5.55	33.98	82.78	252.25	5.68
12424(a)	TS-C339-10	527.05	22.63	41.97	273.19	305.14	8.53	450.00	94.34	30.87	52.71	9.24	56.67	153.07	518.55	8.12
12425	TS-C339-15	880.88	43.33	73.28	459.52	546.94	22.59	745.11	192.43	62.75	66.03	18.32	85.19	208.29	792.39	16.80
12426	TS-S315	732.56	31.07	58.90	353.67	418.46	13.22	623.83	101.93	49.19	68.40	13.87	97.69	226.34	800.04	11.25
12427	TS-A322	5912.37	238.00	43.41	344.12	2286.91	54.45	3743.11	42.88	221.79	341.24	93.40	788.29	1315.11	6773.42	3.34
12428	TS-E411	270.58	17.56	4.47	34.38	84.44	7.17	166.63	5.73	31.24	29.36	12.03	30.39	128.33	236.88	< 0.85
12429	TS-C411-15	95.83	5.86	6.11	30.28	39.22	4.24	68.39	7.86	12.32	11.10	4.83	11.07	38.00	77.89	3.61
12430	TS-E421	94.37	6.21	< 2.33	8.92	22.99	< 2.33	46.85	< 2.33	8.07	8.07	5.28	11.04	35.39	85.87	< 0.85
12431	TS-C421-15	93.73	6.22	7.02	35.27	42.71	4.39	66.14	7.00	16.16	13.19	5.48	10.89	47.92	40.56	< 2.33
12432	TS-E426	325.89	20.27	< 2.33	21.32	82.60	6.10	174.40	2.89	24.73	28.54	15.95	38.87	132.38	170.27	< 0.85
12433	TS-C426-15	95.86	6.19	5.86	30.58	36.76	4.11	67.02	7.38	12.28	11.01	5.28	12.54	40.97	85.11	< 2.33
12434	TS-E500	62.09	3.66	< 2.33	14.63	23.16	2.80	44.19	3.24	6.20	7.65	2.98	7.56	28.64	53.37	< 0.85
12435	TS-C500	7.34	< 0.85	< 0.85	< 2.33	3.30	< 0.85	4.95	< 0.85	< 2.33	< 2.33	< 0.85	< 2.33	3.94	6.10	< 0.85
12436(c)	HUDBUG-A	21.80	12.02	< 0.85	8.61	20.05	< 0.85	32.79	2.71	3.85	2.80	< 0.85	< 2.33	20.08	24.33	< 0.85
12437	HUDBUG-B	408.21	16.09	38.47	246.23	286.93	8.96	331.30	108.74	20.33	38.62	5.13	44.30	104.84	199.35	6.42
12438	HUDBUG-C	205.13	8.73	17.34	106.02	106.66	2.43	159.03	36.69	8.11	12.54	3.62	20.59	37.93	187.83	2.67
12439(c)(d)	HUDBUG-D	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12440	TS-EITH	3.78	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	2.93	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	5.08	6.98	< 0.85
12511 A	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85
12511 C	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	114	131,122	146	153	132	105	141	179	137	176	130	138	158	129	178
12396	HUDBUG-2	7.96	< 0.85	12.05	33.06	< 2.33	45.72	< 2.33	< 0.85	2.77	< 0.85	3.68	26.24	3.61	< 2.33	< 0.85
12397	HUDBUG-3	3.57	< 0.85	8.50	19.81	< 2.33	18.96	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	7.53	< 2.33	< 0.85	< 0.85
12398	HUDBUG-4	< 0.85	< 2.33	5.78	9.68	< 0.85	6.55	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	11.97	< 0.85	< 0.85	< 2.33
12399	HUDWDE-1	< 0.85	< 0.85	< 0.85	2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	2.39	< 0.85	< 0.85	< 0.85
12400 A	HUDWDE-2	7.91	2.91	18.94	42.83	< 2.33	53.00	< 2.33	< 0.85	4.26	< 0.85	4.21	60.46	4.53	< 0.85	5.03
12400 B	HUDWDE-2	7.89	2.58	18.18	41.64	< 2.33	52.16	< 2.33	< 0.85	4.00	< 0.85	3.73	59.22	4.65	< 0.85	4.66
12400 C	HUDWDE-2	7.37	2.41	17.39	40.04	< 2.33	49.81	< 2.33	< 0.85	3.83	< 0.85	3.52	56.20	4.07	< 0.85	4.46
12401	HUDWDA-3	2.75	< 0.85	6.66	22.18	< 0.85	19.09	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	20.90	< 2.33	< 0.85	< 0.85
12402 A	HUDWDA-4	< 2.33	< 0.85	5.14	11.34	< 0.85	8.54	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	13.26	< 2.33	< 0.85	< 2.33
12402 B	HUDWDA-4	< 2.33	< 0.85	5.10	11.37	< 0.85	8.15	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	13.18	< 2.33	< 0.85	< 2.33
12402 C	HUDWDA-4	< 2.33	< 0.85	5.40	12.05	< 0.85	8.77	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	14.06	< 2.33	< 0.85	< 2.33
12403	HUDMLE-4	8.02	< 2.33	19.05	64.22	< 0.85	72.89	< 0.85	< 0.85	3.05	< 0.85	< 2.33	82.10	5.63	< 0.85	3.44
12404	HUDMLA-3	26.35	4.78	64.69	189.19	5.20	194.16	2.64	< 0.85	18.33	< 0.85	13.38	298.81	21.20	< 0.85	17.27
12405	TS-E100	19.23	3.88	45.51	112.75	18.75	159.13	10.54	2.64	21.98	< 0.85	18.77	192.82	22.01	< 2.33	10.07
12406	TS-C100	5.49	< 2.33	9.04	24.08	5.94	37.40	4.05	< 0.85	3.73	< 0.85	3.03	36.31	3.63	< 2.33	< 2.33
12407(a)	TS-A100	49.05	11.42	110.70	358.33	139.89	342.91	52.76	16.47	59.03	5.64	57.05	577.44	54.07	13.68	24.57
12408(a)	TS-E204	56.03	9.14	86.30	183.52	129.68	172.71	51.39	16.60	48.52	2.81	45.78	317.55	55.92	15.78	19.36
12409	TS-C204-5	22.69	9.14	29.24	102.20	72.78	240.63	22.96	16.57	18.60	2.38	18.51	193.13	20.87	14.50	4.48
12410	TS-C204-10	66.35	24.51	51.29	157.93	171.95	124.89	65.59	4.73	35.88	< 2.33	36.56	311.18	40.70	31.61	7.21
12411	TS-C204-15	117.95	39.20	90.30	320.63	240.54	1143.66	117.53	62.20	73.53	4.96	65.39	617.43	75.16	15.59	2.94
12412	TS-E227	51.10	10.20	76.62	177.19	119.69	487.10	52.22	6.06	38.87	3.79	38.87	333.19	41.46	13.16	16.04
12413	TS-C227-5	18.46	5.65	22.55	53.40	44.25	60.00	20.88	< 0.85	14.51	< 0.85	12.77	93.16	16.42	9.51	2.33
12414	TS-C227-10	55.20	16.94	47.27	151.61	122.08	468.18	50.44	20.57	31.95	3.14	30.51	287.77	36.95	8.27	< 2.33
12415	TS-C227-15	68.24	< 0.85	85.22	300.71	199.80	765.74	64.92	7.36	59.99	5.68	58.09	564.03	68.48	51.69	11.50
12416	TS-E313	64.88	13.49	136.43	243.08	49.33	241.93	31.29	6.40	51.78	3.36	67.20	435.29	69.79	6.55	34.76
12417	TS-C313-5	18.01	3.48	30.85	65.71	34.72	57.75	15.21	4.96	15.53	< 0.85	16.29	114.63	20.27	9.43	6.98
12418	TS-C313-15	50.31	19.87	56.80	169.74	87.91	414.29	48.36	4.24	30.49	< 2.33	33.14	316.64	37.09	23.48	10.63
12419	TS-E340	33.56	6.05	52.89	156.75	76.46	307.52	29.80	8.12	25.13	3.88	28.35	218.46	30.31	12.04	10.16
12420	TS-C340-15	33.99	11.79	66.60	170.63	99.38	54.39	36.40	8.24	37.86	< 2.33	37.19	294.14	41.45	26.27	11.99
12421	TS-E337	25.01	3.00	41.30	104.99	22.09	196.21	16.93	< 2.33	16.03	< 0.85	19.13	179.69	18.59	6.57	8.76
12422	TS-C337-15	55.37	24.64	80.40	199.98	135.92	485.45	52.02	7.60	50.49	< 0.85	47.74	366.76	39.61	45.24	9.50
12423	TS-C339-5	15.29	4.91	25.79	63.32	31.61	89.57	15.65	4.20	12.80	< 0.85	13.42	117.47	14.75	8.51	4.13
12424(a)	TS-C339-10	37.90	15.64	40.71	103.53	67.67	290.74	36.10	3.13	22.24	< 2.33	24.91	195.28	26.15	17.64	7.34
12425	TS-C339-15	33.06	22.22	72.91	209.22	160.70	237.15	53.76	11.04	42.46	2.38	43.55	382.05	39.61	34.97	9.15
12426	TS-S315	48.97	11.71	71.10	186.05	76.36	441.22	52.29	5.22	38.94	2.57	38.56	342.95	46.50	26.51	13.00
12427	TS-A322	497.12	24.40	515.56	1544.65	563.40	3603.32	304.77	90.53	239.84	12.54	312.74	2863.80	313.15	59.76	120.93
12428	TS-E411	17.20	7.47	49.90	128.23	43.95	118.05	19.08	3.58	16.76	< 2.33	19.56	198.42	16.00	3.76	13.57
12429	TS-C411-15	5.27	< 2.33	14.59	36.68	15.64	36.55	5.46	2.73	4.66	< 0.85	5.38	59.21	4.07	< 2.33	4.07
12430	TS-E421	5.73	3.59	21.77	47.80	11.28	41.69	6.53	< 0.85	6.25	< 0.85	6.50	70.95	5.99	< 2.33	4.13
12431	TS-C421-15	5.57	< 0.85	16.06	37.78	19.51	36.61	6.30	3.01	5.10	< 0.85	5.63	55.77	4.56	2.51	4.38
12432	TS-E426	22.08	< 2.33	55.42	137.00	37.59	162.35	17.07	< 2.33	21.62	< 2.33	22.80	209.90	21.70	< 2.33	13.57
12433	TS-C426-15	6.35	4.45	23.34	41.25	16.65	41.71	6.22	< 2.33	5.11	< 0.85	6.83	64.18	4.22	2.81	4.84
12434	TS-E500	3.86	< 2.33	13.34	34.03	14.72	25.07	4.74	< 2.33	4.56	< 0.85	4.96	53.00	5.06	< 2.33	3.67
12435	TS-C500	< 0.85	< 0.85	< 2.33	6.26	< 2.33	2.89	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	8.08	< 0.85	< 0.85	< 0.85
12436(c)	HUDBUG-A	< 0.85	< 0.85	4.24	26.37	17.21	10.60	7.33	< 0.85	< 0.85	< 0.85	< 0.85	45.71	4.78	< 0.85	< 0.85
12437	HUDBUG-B	18.16	11.74	21.38	72.59	74.54	222.52	23.99	7.62	16.40	< 2.33	13.73	136.20	14.84	14.05	2.77
12438	HUDBUG-C	12.56	3.21	11.25	36.61	19.63	96.89	9.81	< 0.85	6.04	< 0.85	5.73	70.29	7.67	5.76	< 2.33
12439(c)(d)	HUDBUG-D	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12440	TS-EITH	< 0.85	< 0.85	4.55	12.04	< 2.33	2.81	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	14.05	< 2.33	< 0.85	< 2.33
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	3.14	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.25	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	3.00	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.13	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	3.02	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.24	< 0.85	< 0.85	< 0.85

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	182,187	183	128	167	185	174	177	171,202	156	173	157,201	172	197	180	193
12396	HUDBUG-2	8.29	2.74	4.63	2.72	< 0.85	< 0.85	< 2.33	< 0.85	12.23	< 0.85	< 0.85	< 0.85	< 0.85	10.67	< 0.85
12397	HUDBUG-3	7.05	< 2.33	4.80	< 2.33	< 0.85	< 0.85	< 2.33	< 0.85	8.71	< 0.85	< 0.85	< 0.85	< 0.85	5.72	< 0.85
12398	HUDBUG-4	6.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	2.91	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85
12399	HUDWDE-1	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85
12400 A	HUDWDE-2	16.74	5.19	18.50	3.34	< 0.85	< 2.33	3.89	< 2.33	8.16	< 0.85	3.11	< 2.33	< 0.85	14.30	< 2.33
12400 B	HUDWDE-2	15.85	4.66	17.29	3.06	< 0.85	< 2.33	3.70	< 2.33	8.14	< 0.85	2.97	< 2.33	< 0.85	13.66	< 2.33
12400 C	HUDWDE-2	15.12	4.22	16.90	2.98	< 0.85	< 2.33	3.55	< 2.33	7.73	< 0.85	2.77	< 2.33	< 0.85	13.18	< 2.33
12401	HUDWDA-3	7.77	2.57	6.89	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	4.43	< 0.85	< 0.85	< 0.85	< 0.85	10.23	< 0.85
12402 A	HUDWDA-4	5.65	< 2.33	4.02	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	4.76	< 0.85
12402 B	HUDWDA-4	5.65	< 2.33	3.99	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	4.73	< 0.85
12402 C	HUDWDA-4	6.05	< 2.33	4.21	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	5.02	< 0.85
12403	HUDMLE-4	18.02	5.90	25.19	4.33	< 0.85	< 0.85	< 2.33	< 2.33	12.38	< 0.85	4.37	< 2.33	< 0.85	16.82	< 2.33
12404	HUDMLA-3	152.76	31.57	78.15	17.20	< 0.85	4.25	21.91	14.21	22.66	< 0.85	14.08	6.09	< 0.85	68.19	8.92
12405	TS-E100	55.39	19.73	53.96	15.18	< 0.85	6.29	13.41	8.67	33.24	< 0.85	3.79	4.68	< 0.85	71.74	4.70
12406	TS-C100	6.92	3.02	10.22	2.64	< 0.85	< 2.33	< 2.33	< 2.33	5.93	< 0.85	< 2.33	< 0.85	< 0.85	9.72	< 0.85
12407(a)	TS-A100	121.62	58.01	140.97	38.53	5.12	38.67	46.25	25.67	60.79	< 2.33	31.71	13.18	< 0.85	160.50	12.45
12408(a)	TS-E204	89.05	34.40	132.72	25.88	2.94	28.43	27.79	15.32	62.88	< 2.33	10.04	6.71	< 0.85	103.22	5.03
12409	TS-C204-5	28.82	11.91	57.27	9.28	< 2.33	12.11	10.10	5.78	27.78	< 0.85	< 2.33	2.54	< 0.85	41.63	5.27
12410	TS-C204-10	40.51	22.44	101.92	16.93	2.87	23.02	16.26	6.93	51.08	< 2.33	17.93	3.91	< 0.85	66.75	3.14
12411	TS-C204-15	84.55	37.05	188.07	32.50	7.73	50.66	33.99	17.92	94.71	< 2.33	< 2.33	7.89	< 0.85	98.57	19.45
12412	TS-E227	81.80	34.72	120.46	20.02	3.18	24.22	26.87	14.42	56.15	< 2.33	5.39	6.18	< 0.85	101.08	13.21
12413	TS-C227-5	18.28	8.45	39.08	7.83	< 2.33	7.02	6.65	3.41	18.82	< 0.85	< 2.33	< 2.33	< 0.85	28.11	< 2.33
12414	TS-C227-10	38.43	20.29	73.02	16.53	3.18	19.79	15.17	7.68	48.12	< 0.85	< 0.85	3.93	< 0.85	57.97	9.42
12415	TS-C227-15	65.39	37.63	133.43	27.97	5.13	37.65	26.73	11.40	< 2.33	< 2.33	29.10	6.62	< 0.85	82.69	5.37
12416	TS-E313	177.39	67.41	197.40	44.73	< 2.33	13.02	62.24	33.97	111.42	< 2.33	11.29	15.63	< 0.85	132.17	24.44
12417	TS-C313-5	29.38	11.63	48.32	9.83	< 0.85	5.71	10.62	5.31	23.80	< 0.85	4.67	2.74	< 0.85	39.74	3.34
12418	TS-C313-15	50.04	23.42	98.93	16.33	< 2.33	14.39	18.54	8.14	45.74	< 0.85	16.50	4.46	< 0.85	65.45	3.89
12419	TS-E340	50.06	20.10	80.78	13.49	< 2.33	14.33	17.08	9.00	33.81	< 2.33	3.32	4.08	< 0.85	64.18	7.83
12420	TS-C340-15	56.47	24.83	50.12	19.67	2.94	19.92	20.40	9.76	52.73	< 2.33	4.53	5.39	< 0.85	52.49	3.58
12421	TS-E337	34.61	14.68	51.77	10.02	< 2.33	8.64	11.42	5.38	25.05	< 0.85	10.18	2.93	< 0.85	43.85	2.75
12422	TS-C337-15	65.38	32.36	93.99	24.78	4.08	25.07	24.88	12.22	51.10	2.54	21.07	6.48	< 0.85	70.14	8.58
12423	TS-C339-5	24.12	9.19	38.52	6.87	< 0.85	6.31	7.34	2.70	18.25	< 0.85	< 2.33	< 2.33	< 0.85	29.46	4.06
12424(a)	TS-C339-10	34.55	16.02	71.09	11.80	< 2.33	12.03	12.20	5.64	32.17	< 0.85	11.96	3.07	< 0.85	52.07	2.65
12425	TS-C339-15	67.78	30.49	101.58	21.79	3.06	28.61	26.17	13.34	30.64	< 2.33	16.63	6.26	< 0.85	62.35	10.02
12426	TS-S315	64.16	31.71	76.61	22.99	2.64	17.36	23.22	11.21	57.72	< 2.33	15.20	5.91	< 0.85	96.17	5.01
12427	TS-A322	523.20	203.99	921.87	125.05	18.65	127.77	205.99	89.58	437.52	7.94	148.38	47.88	< 2.33	700.76	36.79
12428	TS-E411	62.64	20.00	46.62	10.20	< 2.33	12.81	16.20	7.74	22.52	< 0.85	9.91	3.97	< 0.85	64.32	3.46
12429	TS-C411-15	15.75	3.58	13.12	2.86	< 0.85	3.72	4.17	< 2.33	5.84	< 0.85	< 0.85	< 2.33	< 0.85	11.46	< 0.85
12430	TS-E421	23.16	7.35	16.83	4.11	< 0.85	4.73	5.55	3.02	9.45	< 0.85	3.63	< 2.33	< 0.85	25.15	< 2.33
12431	TS-C421-15	20.96	3.47	14.42	2.92	< 0.85	4.40	4.41	< 2.33	5.96	< 0.85	< 0.85	< 2.33	< 0.85	11.23	< 2.33
12432	TS-E426	55.75	16.84	56.97	12.44	< 2.33	12.42	16.97	8.14	25.39	< 0.85	3.25	3.78	< 0.85	52.11	4.60
12433	TS-C426-15	19.59	4.11	14.64	3.14	< 0.85	4.00	4.97	< 2.33	7.53	< 0.85	2.91	< 2.33	< 0.85	13.65	< 2.33
12434	TS-E500	20.78	5.51	12.68	3.27	< 0.85	4.07	4.33	2.60	5.91	< 0.85	< 2.33	< 2.33	< 0.85	16.52	< 2.33
12435	TS-C500	3.45	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	2.50	< 0.85
12436(c)	HUDBUG-A	13.58	< 0.85	4.63	< 0.85	< 0.85	< 0.85	2.88	< 2.33	2.46	< 0.85	< 0.85	< 0.85	< 0.85	12.49	< 0.85
12437	HUDBUG-B	17.28	8.54	43.87	6.54	< 2.33	10.57	6.93	3.55	18.46	< 0.85	< 2.33	< 2.33	< 0.85	25.23	< 2.33
12438	HUDBUG-C	9.85	3.72	20.19	3.03	< 0.85	2.61	3.76	< 2.33	9.26	< 0.85	2.94	< 2.33	< 0.85	15.57	< 0.85
12439(c)(d)	HUDBUG-D	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12440	TS-EITH	9.60	2.69	2.98	< 2.33	< 0.85	< 2.33	< 2.33	< 2.33	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	15.63	< 0.85
12511 A	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33
12511 B	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33
12511 C	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 1. Congener Specific PCBs (ng/g) -- Hudson River Samples (WU30096)

Sample Name	Field ID	191	200	170,190	198 (b)	199	196,203	189	208,195	207	194	205	206	209	Total cPCBs
12396	HUDBUG-2	< 0.85	< 0.85	4.84	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	1085
12397	HUDBUG-3	< 0.85	< 0.85	4.38	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	500
12398	HUDBUG-4	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	240
12399	HUDWDE-1	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	5
12400 A	HUDWDE-2	< 0.85	< 0.85	7.07	< 0.85	3.83	3.20	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1410
12400 B	HUDWDE-2	< 0.85	< 0.85	6.80	< 0.85	3.76	3.07	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1341
12400 C	HUDWDE-2	< 0.85	< 0.85	6.51	< 0.85	3.71	2.94	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1300
12401	HUDWDA-3	< 0.85	< 0.85	4.64	< 0.85	2.81	2.49	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	250
12402 A	HUDWDA-4	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	283
12402 B	HUDWDA-4	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	289
12402 C	HUDWDA-4	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	306
12403	HUDMLE-4	< 0.85	< 0.85	8.37	< 0.85	3.92	4.24	< 0.85	< 2.33	< 0.85	2.38	< 0.85	< 0.85	< 0.85	1118
12404	HUDMLA-3	3.43	< 0.85	39.57	< 2.33	29.67	19.03	< 2.33	8.92	< 2.33	16.62	< 2.33	11.60	2.62	3968
12405	TS-E100	2.85	< 0.85	31.75	< 2.33	14.95	13.96	< 2.33	5.21	< 0.85	9.75	< 2.33	10.13	3.38	4561
12406	TS-C100	< 0.85	< 0.85	4.32	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1411
12407(a)	TS-A100	4.35	< 2.33	70.63	2.59	39.61	37.55	3.81	12.15	2.45	28.27	2.82	16.85	4.81	22225
12408(a)	TS-E204	3.49	< 2.33	53.27	< 2.33	23.99	23.04	< 2.33	7.80	< 2.33	16.51	< 2.33	12.81	3.32	22920
12409	TS-C204-5	< 2.33	< 0.85	20.32	< 2.33	8.38	8.62	< 0.85	2.54	< 0.85	6.15	< 0.85	4.56	< 0.85	15632
12410	TS-C204-10	< 2.33	< 2.33	32.41	< 0.85	10.07	10.28	< 2.33	2.90	< 0.85	7.17	< 0.85	< 0.85	< 0.85	55626
12411	TS-C204-15	6.07	< 2.33	51.50	< 0.85	19.32	20.42	2.45	5.95	< 2.33	15.33	< 2.33	10.32	< 2.33	94409
12412	TS-E227	4.51	< 2.33	49.25	2.97	22.18	21.14	< 2.33	6.76	< 2.33	14.58	< 2.33	7.98	2.52	24890
12413	TS-C227-5	< 0.85	< 0.85	13.43	< 0.85	4.65	4.76	< 0.85	< 2.33	< 0.85	3.44	< 0.85	< 2.33	< 0.85	11486
12414	TS-C227-10	2.76	< 0.85	29.10	< 0.85	8.68	9.71	< 2.33	2.75	< 0.85	7.31	< 0.85	4.07	< 0.85	39860
12415	TS-C227-15	3.72	< 2.33	53.28	< 0.85	14.87	15.89	< 2.33	4.27	< 0.85	11.13	< 0.85	< 0.85	< 0.85	96280
12416	TS-E313	9.56	< 0.85	100.30	< 2.33	60.98	49.32	3.95	17.73	3.68	43.20	2.86	37.10	9.08	14139
12417	TS-C313-5	< 2.33	< 0.85	19.30	< 0.85	7.94	6.76	< 0.85	< 2.33	< 0.85	5.22	< 0.85	3.12	< 0.85	7632
12418	TS-C313-15	< 2.33	< 0.85	35.00	< 0.85	11.67	11.40	< 2.33	3.18	< 0.85	8.70	< 0.85	< 0.85	< 0.85	26116
12419	TS-E340	2.56	< 0.85	31.07	2.50	15.18	12.82	< 2.33	4.29	< 0.85	9.34	< 0.85	7.82	< 2.33	15174
12420	TS-C340-15	2.58	< 0.85	40.96	< 2.33	13.91	13.81	< 2.33	3.98	< 0.85	10.56	< 0.85	4.41	< 0.85	23519
12421	TS-E337	< 2.33	< 0.85	19.83	< 2.33	11.37	9.30	< 0.85	3.19	< 0.85	6.99	< 0.85	< 0.85	< 2.33	8917
12422	TS-C337-15	3.72	< 0.85	32.73	< 2.33	14.25	14.86	< 2.33	4.08	< 0.85	11.67	< 0.85	6.10	< 0.85	37955
12423	TS-C339-5	< 0.85	< 0.85	13.84	< 0.85	6.02	5.21	< 0.85	< 2.33	< 0.85	3.78	< 0.85	< 2.33	< 0.85	9659
12424(a)	TS-C339-10	< 2.33	< 0.85	23.60	< 0.85	8.79	7.86	< 2.33	< 2.33	< 0.85	5.82	< 0.85	< 0.85	< 0.85	19160
12425	TS-C339-15	3.56	< 2.33	34.35	< 2.33	17.80	15.91	< 2.33	4.96	< 0.85	12.29	< 0.85	8.51	< 2.33	39945
12426	TS-S315	2.90	< 0.85	44.14	< 0.85	16.53	16.45	< 2.33	4.92	< 0.85	12.78	< 2.33	4.97	< 2.33	21289
12427	TS-A322	26.57	6.19	322.07	7.99	168.38	122.53	14.27	39.86	8.11	95.87	9.10	< 2.33	10.76	113622
12428	TS-E411	< 2.33	< 0.85	24.17	< 0.85	17.21	14.04	< 2.33	4.63	< 0.85	8.47	< 0.85	< 0.85	2.35	6150
12429	TS-C411-15	< 0.85	< 0.85	5.70	< 0.85	3.42	2.59	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	3066
12430	TS-E421	< 0.85	< 0.85	10.38	< 0.85	6.10	5.46	< 0.85	< 2.33	< 0.85	3.45	< 0.85	< 0.85	< 2.33	2135
12431	TS-C421-15	< 0.85	< 0.85	5.76	< 0.85	3.82	2.71	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	2512
12432	TS-E426	< 2.33	< 0.85	26.49	< 2.33	14.47	12.92	< 2.33	4.52	< 0.85	7.85	< 2.33	7.60	2.69	7379
12433	TS-C426-15	< 0.85	< 0.85	6.39	< 0.85	4.05	3.11	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	2456
12434	TS-E500	< 0.85	< 0.85	7.56	< 0.85	5.78	5.02	< 0.85	< 2.33	< 0.85	3.13	< 2.33	4.04	3.15	1805
12435	TS-C500	< 0.85	< 2.33	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	197
12436(c)	HUDBUG-A	< 0.85	< 0.85	2.71	10.28	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	7.68	5.52	573
12437	HUDBUG-B	< 0.85	< 0.85	12.30	2.83	4.82	4.35	< 0.85	< 2.33	< 0.85	3.01	< 0.85	7.45	< 0.85	17743
12438	HUDBUG-C	< 0.85	< 0.85	6.87	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	6628
12439(c)(d)	HUDBUG-D	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	0
12440	TS-EITH	< 0.85	< 0.85	3.66	< 0.85	3.48	2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 2.33	103
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	6
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	6
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	6

(a) GC Replicate Average
(b) A contaminate has biased this congeners concentration.
(c) Not analysed for lipid.
(d) ND for whole sample.

MDL = 0.85ng/g
MQL = 2.33 ng/g

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	Sample Matrix	Grams Extracted	% Lipid	004,010	007,009	006	005,008	019	018	017,015	024,027	016,032
12400 A	HUDWDE-2	Wood Duck Egg Composite	10.00	15.0	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	19.1	< 0.85	< 0.85
12400 B	HUDWDE-2	Wood Duck Egg Composite	10.00	15.2	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	18.3	< 0.85	< 0.85
12400 C	HUDWDE-2	Wood Duck Egg Composite	10.00	14.8	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	16.9	< 0.85	< 0.85
AVG:	(Average)										18.1		
SD(N-1):	(Sample Standard Deviation)										1.1		
% RSD:	(% Relative Standard Deviation)										6		
12402 A	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	3.2	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	7.2	< 0.85	< 2.33
12402 B	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	2.8	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	6.5	< 0.85	< 2.33
12402 C	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	2.8	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	7.4	< 0.85	< 2.33
AVG:					2.9						7.0		
SD(N-1):					0.2						0.5		
% RSD:					8						7		
12511 A	TS-CITH	Tree Swallow Chick Composite	10.00	7.2	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	Tree Swallow Chick Composite	10.00	7.5	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	Tree Swallow Chick Composite	10.00	7.9	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
AVG:													
SD(N-1):													
% RSD:													
12407 GCR1	TS-A100	Tree Swallow Adult Female	10.00	8.3	2.5	< 0.85	< 0.85	4.3	6.3	42.5	52.2	3.7	37.8
12407 GCR2	TS-A100	Tree Swallow Adult Female			2.3	< 0.85	< 0.85	4.1	6.1	41.7	49.5	3.7	37.2
12407 GCR3	TS-A100	Tree Swallow Adult Female			< 2.33	< 0.85	< 0.85	3.9	5.8	39.4	47.0	3.5	35.7
AVG:					2.3			4.1	6.1	41.2	49.6	3.6	36.9
SD(N-1):					0.2			0.2	0.2	1.6	2.6	0.1	1.1
% RSD:					7			5	4	4	5	4	3
12408 GCR1	TS-E204	Tree Swallow Egg Composite	2.51	7.2	11.4	< 2.33	< 2.33	14.7	17.6	158.6	154.6	13.6	114.6
12408 GCR2	TS-E204	Tree Swallow Egg Composite			11.1	2.4	< 2.33	14.0	16.8	155.7	149.6	13.3	110.9
12408 GCR3	TS-E204	Tree Swallow Egg Composite			10.8	< 2.33	< 2.33	14.1	16.6	148.9	148.8	12.9	108.9
AVG:					11.1	2.3		14.3	17.0	154.4	151.0	13.2	111.4
SD(N-1):					0.3	0.1		0.4	0.5	5.0	3.2	0.3	2.9
% RSD:					3	4		3	3	3	2	2	3
12424 GCR1	TS-C339-10	Tree Swallow Chick Composite	10.00	5.7	137.9	5.5	7.7	36.8	64.8	233.0	188.7	22.2	219.1
12424 GCR2	TS-C339-10	Tree Swallow Chick Composite			134.5	5.4	7.5	35.8	63.1	225.5	183.5	21.6	212.5
12424 GCR3	TS-C339-10	Tree Swallow Chick Composite			141.9	5.6	7.8	37.7	66.7	239.3	193.4	22.8	225.2
AVG:					138.1	5.5	7.7	36.8	64.9	232.6	188.5	22.2	219.0
SD(N-1):					3.7	0.1	0.2	0.9	1.8	6.9	4.9	0.6	6.3
% RSD:					3	2	2	3	3	3	3	3	3
PC 050296 GCR1	Reference Material 6806-118	Saginaw Bay Carp	10.00	14.0	3.7	< 0.85	3.2	3.4	4.6	92.2	31.8	3.2	43.2
PC 050296 GCR2	Reference Material 6806-118	Saginaw Bay Carp			3.9	< 0.85	3.7	3.5	4.9	94.2	30.2	3.4	45.0
PC 050296 GCR3	Reference Material 6806-118	Saginaw Bay Carp			3.6	< 0.85	3.2	3.1	4.3	82.5	28.7	3.0	39.4
REPLICATE AVG:					3.7		3.3	3.3	4.6	89.6	30.2	3.2	42.5
SD(N-1):					0.1		0.3	0.2	0.3	6.3	1.6	0.2	2.8
% RSD:					4		9	7	7	7	5	6	7
PC 050796 GCR1	Reference Material 6806-118	Saginaw Bay Carp	10.00	13.3	2.8	< 2.33	2.8	2.8	3.7	72.1	27.1	2.8	35.5
PC 050796 GCR2	Reference Material 6806-118	Saginaw Bay Carp			2.8	< 2.33	2.7	2.8	3.3	71.2	26.4	2.7	34.8
PC 050796 GCR3	Reference Material 6806-118	Saginaw Bay Carp			2.6	< 2.33	2.7	2.8	3.2	70.2	26.8	2.7	34.8
REPLICATE AVG:					2.7		2.7	2.8	3.4	71.2	26.8	2.7	35.0
SD(N-1):					0.1		0.0	0.0	0.3	0.9	0.3	0.0	0.4
% RSD:					4		2	1	7	1	1	1	1

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	Sample Matrix	Grams Extracted	% Lipid	004,010	007,009	006	005,008	019	018	017,015	024,027	016,032
PC 051596 GCR1	Reference Material 6806-118	Saginaw Bay Carp	10.00	13.5	3.8	< 0.85	3.6	4.0	5.5	104.9	33.6	3.4	48.4
PC 051596 GCR2	Reference Material 6806-118	Saginaw Bay Carp			3.2	< 0.85	3.3	3.8	5.2	100.3	31.6	3.3	46.1
PC 051596 GCR3	Reference Material 6806-118	Saginaw Bay Carp			3.5	< 0.85	3.1	3.7	5.2	102.1	32.1	3.3	46.1
REPLICATE AVG:					3.5		3.4	3.8	5.3	102.4	32.4	3.3	46.9
SD(N-1):					0.3		0.2	0.2	0.2	2.3	1.1	0.1	1.3
% RSD:					8		7	5	3	2	3	3	3
PC Baseline	Reference Material 6806				2.7	0.6	2.8	3.1	3.6	74.4	26.6	3.7	36.8
MS 050296 GCR1	Negative Control	Chicken Egg	10.00	10.4	3.9	< 2.33	< 2.33	6.9	< 2.33	13.5	5.8	< 0.85	7.4
MS 050296 GCR2	Negative Control	Chicken Egg			3.9	< 2.33	< 2.33	6.9	< 2.33	13.4	5.7	< 0.85	7.4
MS 050296 GCR3	Negative Control	Chicken Egg			3.8	< 2.33	< 2.33	6.6	< 2.33	13.1	5.5	< 0.85	7.1
REPLICATE AVG:					3.9			6.8		13.4	5.7		7.3
SD(N-1):					0.1			0.2		0.2	0.1		0.2
% RSD:					2			2		2	2		2
MS 050796 GCR1	Negative Control 654C	Bluegill Tissue	10.00	3.9	4.2	< 2.33	< 2.33	8.2	< 2.33	16.7	6.8	< 0.85	9.3
MS 050796 GCR2	Negative Control 654C	Bluegill Tissue			4.4	< 2.33	< 2.33	7.6	< 2.33	15.6	6.5	< 0.85	8.9
MS 050796 GCR3	Negative Control 654C	Bluegill Tissue			3.8	< 0.85	< 2.33	7.3	< 2.33	15.3	5.6	< 0.85	8.6
REPLICATE AVG:					4.1			7.7		15.9	6.3		8.9
SD(N-1):					0.3			0.5		0.7	0.6		0.4
% RSD:					8			6		5	10		4
MS 051596 GCR1	Negative Control 654C	Bluegill Tissue	10.00	3.2	4.6	< 2.33	< 2.33	7.0	< 2.33	15.4	5.7	< 0.85	8.2
MS 051596 GCR2	Negative Control 654C	Bluegill Tissue			4.1	< 2.33	< 2.33	6.4	< 2.33	14.5	5.7	< 0.85	7.7
MS 051596 GCR3	Negative Control 654C	Bluegill Tissue			4.0	< 2.33	< 2.33	6.7	< 2.33	13.5	6.1	< 0.85	7.6
REPLICATE AVG:					4.2			6.7		14.5	5.8		7.8
SD(N-1):					0.3			0.3		0.9	0.3		0.3
% RSD:					8			4		6	4		4
MB 050296	Negative Control	Chicken Egg	10.00	10.3	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 050796	Negative Control 654C	Bluegill Tissue	10.00	3.4	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 051596	Negative Control 654C	Bluegill Tissue	10.00	3.3	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
PB 050296 GCR1	Procedural Blank	40g Na_2SO_4	10.00	0.0	0.11	0.12	0.06	0.08	0.00	0.12	0.06	0.01	0.07
PB 050296 GCR2	Procedural Blank	40g Na_2SO_4			0.11	0.14	0.05	0.08	0.00	0.11	0.07	0.01	0.06
PB 050296 GCR3	Procedural Blank	40g Na_2SO_4			0.12	0.14	0.05	0.07	0.00	0.10	0.07	0.01	0.06
PB 050796 GCR1 (b)	Procedural Blank	40g Na_2SO_4	10.00	0.0	0.02	0.11	0.05	0.14	0.08	0.50	0.57	0.11	0.65
PB 050796 GCR2 (b)	Procedural Blank	40g Na_2SO_4			0.02	0.11	0.04	0.14	0.07	0.47	0.55	0.11	0.62
PB 050796 GCR3 (b)	Procedural Blank	40g Na_2SO_4			0.02	0.12	0.05	0.14	0.07	0.45	0.55	0.10	0.59
PB 051596 GCR1	Procedural Blank	40g Na_2SO_4	10.00	0.0	0.21	0.30	0.07	0.05	0.02	0.07	0.07	0.03	0.04
PB 051596 GCR2	Procedural Blank	40g Na_2SO_4			0.18	0.31	0.08	0.05	0.02	0.06	0.06	0.03	0.03
PB 051596 GCR3	Procedural Blank	40g Na_2SO_4			0.19	0.29	0.09	0.06	0.02	0.08	0.07	0.03	0.04
PB AVERAGE:					0.11	0.18	0.06	0.09	0.03	0.22	0.23	0.05	0.24
SD(N-1):					0.08	0.09	0.02	0.04	0.03	0.19	0.24	0.04	0.29
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)				0.34	0.45	0.11	0.20	0.13	0.79	0.96	0.18	1.10
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)				0.87	1.08	0.24	0.47	0.37	2.14	2.67	0.49	3.10

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

PC = Positive Control; MS = Matrix Spike; MB = Matrix Blank; PB = Procedure Blank.

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	029	026	025	031	028	020,033	053	051	022	045	046	052	043	049	047	048	044
12400 A	HUDWDE-2	< 0.85	< 2.33	< 0.85	11.9	219.8	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	24.0	< 0.85	27.8	159.4	3.6	< 0.85
12400 B	HUDWDE-2	< 0.85	< 2.33	< 0.85	12.2	197.4	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	23.1	< 0.85	26.9	155.3	4.0	< 0.85
12400 C	HUDWDE-2	< 0.85	< 2.33	< 0.85	10.8	200.3	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	21.9	< 0.85	25.5	148.5	3.0	< 0.85
AVG:	(Average)	0.0			11.7	205.8						0.0	23.0		26.7	154.4	3.5	
SD(N-1):	(Sample Standard Deviation)	0.0			0.8	12.2						0.0	1.1		1.2	5.5	0.5	
% RSD:	(% Relative Standard Deviation)	0			7	6						0	5		4	4	15	
12402 A	HUDWDA-4	< 0.85	< 2.33	< 0.85	< 2.33	36.8	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	4.9	< 0.85	5.1	24.5	< 2.33	< 0.85
12402 B	HUDWDA-4	< 0.85	< 2.33	< 0.85	2.4	38.1	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	5.1	< 0.85	5.2	25.1	< 2.33	< 0.85
12402 C	HUDWDA-4	< 0.85	< 2.33	< 0.85	< 2.33	40.4	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	5.3	< 0.85	5.3	25.2	2.8	< 0.85
AVG:					2.3	38.4							5.1		5.2	24.9	2.3	
SD(N-1):					0.1	1.8							0.2		0.1	0.4	0.4	
% RSD:					5	5							3		2	2	18	
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
AVG:																		
SD(N-1):																		
% RSD:																		
12407 GCR1	TS-A100	3.3	22.8	31.8	423.6	1406.2	25.3	64.2	13.3	21.5	4.9	5.0	2371.4	5.0	2072.1	1042.5	170.9	124.6
12407 GCR2	TS-A100	3.2	21.8	30.6	407.1	1457.3	25.3	56.3	11.2	19.1	5.0	4.9	2442.2	4.1	2097.7	1189.6	202.5	118.9
12407 GCR3	TS-A100	3.1	21.5	29.6	455.4	1450.5	19.4	61.0	10.9	17.9	4.6	4.6	2472.2	4.6	2082.7	1101.5	138.3	112.5
AVG:		3.2	22.0	30.7	428.7	1438.0	23.3	60.5	11.8	19.5	4.8	4.8	2428.6	4.6	2084.2	1111.2	170.6	118.7
SD(N-1):		0.1	0.7	1.1	24.5	27.8	3.4	4.0	1.3	1.8	0.2	0.2	51.8	0.4	12.9	74.1	32.1	6.1
% RSD:		4	3	3	6	2	15	7	11	9	5	4	2	9	1	7	19	5
12408 GCR1	TS-E204	10.8	113.8	92.7	568.4	1597.4	67.8	164.5	48.8	73.7	20.8	32.6	2950.8	16.2	2237.1	1245.0	217.6	553.3
12408 GCR2	TS-E204	10.5	109.9	92.2	540.5	1729.5	59.6	168.7	48.0	72.9	20.1	31.5	3087.6	18.8	2255.3	1338.3	205.4	536.6
12408 GCR3	TS-E204	10.1	107.5	90.0	557.7	1571.8	64.0	151.0	46.0	69.1	19.1	30.6	2809.7	19.0	2200.4	1285.7	202.9	524.5
AVG:		10.5	110.4	91.7	555.5	1632.9	63.8	161.4	47.6	71.9	20.0	31.5	2949.4	18.0	2230.9	1289.7	208.6	538.1
SD(N-1):		0.4	3.2	1.5	14.1	84.6	4.1	9.2	1.5	2.4	0.8	1.0	139.0	1.5	27.9	46.7	7.8	14.4
% RSD:		3	3	2	3	5	6	6	3	3	4	3	5	9	1	4	4	3
12424 GCR1	TS-C339-10	11.0	108.5	88.0	582.8	1653.6	161.7	85.1	41.4	250.4	43.8	22.7	1300.8	15.6	1598.5	989.3	346.2	637.3
12424 GCR2	TS-C339-10	10.7	105.2	86.1	627.3	1524.3	150.5	94.2	40.8	245.4	42.4	21.9	1276.1	11.5	1567.6	966.2	301.5	627.7
12424 GCR3	TS-C339-10	11.2	111.2	90.2	627.3	1655.3	160.4	98.0	41.6	250.7	45.0	23.3	1339.1	12.7	1659.5	987.0	312.3	656.9
AVG:		10.9	108.3	88.1	612.5	1611.1	157.5	92.4	41.2	248.8	43.7	22.7	1305.3	13.3	1608.5	980.9	320.0	640.6
SD(N-1):		0.2	3.0	2.1	25.7	75.1	6.1	6.6	0.4	2.9	1.3	0.7	31.8	2.1	46.8	12.7	23.3	14.9
% RSD:		2	3	2	4	5	4	7	1	1	3	3	2	16	3	1	7	2
PC 050296 GCR1	Reference Material 6806-118	< 0.85	53.4	21.8	42.8	66.4	8.4	39.5	14.3	10.8	27.7	10.4	460.9	14.8	509.3	238.1	76.4	266.0
PC 050296 GCR2	Reference Material 6806-118	< 0.85	59.6	23.1	38.2	75.4	8.5	38.8	14.7	11.1	28.6	11.0	455.2	14.6	495.0	232.7	70.3	264.4
PC 050296 GCR3	Reference Material 6806-118	< 0.85	52.4	21.0	33.4	64.9	7.5	36.0	12.9	9.5	24.6	9.5	465.1	13.8	515.4	234.6	77.8	270.2
REPLICATE AVG:			55.1	22.0	38.1	68.9	8.1	38.1	14.0	10.5	27.0	10.3	460.4	14.4	506.6	235.1	74.8	266.9
SD(N-1):			3.9	1.1	4.7	5.7	0.5	1.8	1.0	0.8	2.1	0.7	5.0	0.5	10.5	2.7	4.0	3.0
% RSD:			7	5	12	8	7	5	7	8	8	7	1	4	2	1	5	1
PC 050796 GCR1	Reference Material 6806-118	< 0.85	82.7	16.8	34.9	56.9	8.2	38.9	12.3	8.6	24.0	9.2	433.1	8.9	471.4	223.5	52.9	247.9
PC 050796 GCR2	Reference Material 6806-118	< 0.85	81.7	16.6	32.9	57.8	7.5	39.6	12.1	8.4	25.3	8.8	421.7	11.0	460.7	214.5	44.4	242.4
PC 050796 GCR3	Reference Material 6806-118	< 0.85	81.9	16.6	33.5	57.3	7.7	38.8	12.0	8.4	24.4	9.2	434.7	9.0	475.5	219.9	56.5	250.1
REPLICATE AVG:			82.1	16.7	33.8	57.4	7.8	39.1	12.1	8.5	24.6	9.1	429.9	9.6	469.2	219.3	51.3	246.8
SD(N-1):			0.6	0.1	1.0	0.5	0.3	0.4	0.1	0.1	0.7	0.2	7.1	1.2	7.6	4.5	6.2	3.9
% RSD:			1	1	3	1	4	1	1	1	3	2	2	12	2	2	12	2

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	029	026	025	031	028	020,033	053	051	022	045	046	052	043	049	047	048	044
PC 051596 GCR1	Reference Material 6806-118	< 0.85	66.2	21.2	42.6	82.6	14.8	27.7	13.4	11.2	29.6	11.7	404.1	21.0	425.6	246.7	69.3	219.4
PC 051596 GCR2	Reference Material 6806-118	< 0.85	62.8	22.8	41.0	77.7	14.7	24.8	12.8	10.6	28.3	11.1	447.9	17.8	472.1	239.3	64.0	241.9
PC 051596 GCR3	Reference Material 6806-118	< 0.85	61.4	22.8	43.0	74.1	16.9	22.5	12.0	9.7	27.9	11.2	451.7	20.1	491.3	237.1	74.1	242.9
REPLICATE AVG:			63.5	22.3	42.2	78.1	15.5	25.0	12.7	10.5	28.6	11.3	434.6	19.6	463.0	241.0	69.1	234.7
SD(N-1):			2.5	0.9	1.1	4.3	1.3	2.6	0.7	0.8	0.9	0.3	26.4	1.7	33.8	5.0	5.1	13.3
% RSD:			4	4	3	5	8	10	5	7	3	3	6	9	7	2	7	6
PC Baseline	Reference Material 6806	**0.4**	**84.1**	**20.0**	**36.0**	**59.8**	**10.7**	**38.0**	**12.8**	**9.4**	**24.4**	**9.4**	**403.0**	**15.7**	**469.5**	**233.9**	**55.7**	**238.8**
MS 050296 GCR1	Negative Control	< 0.85	< 2.33	< 0.85	5.1	7.2	6.5	< 2.33	< 0.85	3.0	< 2.33	< 2.33	14.7	< 0.85	8.3	2.7	4.1	9.1
MS 050296 GCR2	Negative Control	< 0.85	< 2.33	< 0.85	5.3	7.0	6.3	< 2.33	< 0.85	2.9	< 2.33	< 2.33	14.5	< 0.85	8.1	2.5	4.4	9.0
MS 050296 GCR3	Negative Control	< 0.85	< 2.33	< 0.85	4.9	7.0	6.0	< 2.33	< 0.85	2.8	< 2.33	< 2.33	14.2	< 0.85	7.9	2.4	4.4	8.7
REPLICATE AVG:					5.1	7.1	6.3			2.9			14.5		8.1	2.5	4.3	8.9
SD(N-1):					0.2	0.1	0.3			0.1			0.3		0.2	0.1	0.2	0.2
% RSD:					3	2	4			2			2		2	5	4	2
MS 050796 GCR1	Negative Control 654C	< 0.85	< 2.33	< 2.33	8.0	10.8	7.7	< 2.33	< 0.85	3.6	2.5	< 2.33	20.2	< 0.85	12.2	5.0	4.8	11.6
MS 050796 GCR2	Negative Control 654C	< 0.85	< 2.33	< 2.33	6.3	11.4	6.6	3.0	< 0.85	3.4	2.4	< 2.33	19.5	< 0.85	11.8	4.4	5.4	11.2
MS 050796 GCR3	Negative Control 654C	< 0.85	< 2.33	< 2.33	5.8	11.1	6.2	2.8	< 0.85	3.2	< 2.33	< 2.33	19.1	< 0.85	11.4	4.1	5.7	10.8
REPLICATE AVG:					6.7	11.1	6.8	2.7		3.4	2.4		19.6		11.8	4.5	5.3	11.2
SD(N-1):					1.1	0.3	0.8	0.3		0.2	0.1		0.6		0.4	0.4	0.5	0.4
% RSD:					17	3	11	12		6	5		3		3	10	9	4
MS 051596 GCR1	Negative Control 654C	< 0.85	< 2.33	< 0.85	5.7	7.0	6.3	< 2.33	< 0.85	2.8	< 2.33	< 2.33	17.6	< 0.85	9.7	3.4	4.5	10.3
MS 051596 GCR2	Negative Control 654C	< 0.85	< 2.33	< 0.85	4.9	6.5	6.6	< 2.33	< 0.85	2.5	< 2.33	< 2.33	16.8	< 0.85	9.2	3.4	3.7	9.8
MS 051596 GCR3	Negative Control 654C	< 0.85	< 2.33	< 0.85	4.3	7.8	6.1	< 2.33	< 0.85	2.6	< 2.33	< 2.33	16.4	< 0.85	9.0	3.5	4.2	10.2
REPLICATE AVG:					4.9	7.1	6.3			2.6			16.9		9.3	3.4	4.1	10.1
SD(N-1):					0.7	0.6	0.3			0.1			0.7		0.4	0.1	0.4	0.3
% RSD:					14	9	4			5			4		4	2	10	3
MB 050296	Negative Control	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 050796	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	2.6	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	< 0.85	< 2.33
MB 051596	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85
PB 050296 GCR1	Procedural Blank	0.00	0.00	0.09	0.05	0.07	0.05	0.03	0.00	0.00	0.01	0.00	0.16	0.00	0.08	0.05	0.08	0.09
PB 050296 GCR2	Procedural Blank	0.00	0.00	0.11	0.04	0.09	0.05	0.03	0.00	0.00	0.01	0.00	0.14	0.00	0.08	0.05	0.09	0.08
PB 050296 GCR3	Procedural Blank	0.00	0.00	0.10	0.04	0.10	0.04	0.03	0.00	0.00	0.01	0.00	0.14	0.00	0.07	0.05	0.10	0.09
PB 050796 GCR1 (b)	Procedural Blank	0.04	0.32	0.39	2.34	5.03	0.32	0.36	0.13	0.50	0.07	0.07	3.56	0.02	3.89	1.83	0.78	1.51
PB 050796 GCR2 (b)	Procedural Blank	0.05	0.30	0.37	2.22	4.78	0.32	0.34	0.13	0.49	0.08	0.07	3.38	0.02	3.71	1.79	0.70	1.44
PB 050796 GCR3 (b)	Procedural Blank	0.04	0.28	0.41	2.14	4.62	0.29	0.37	0.14	0.47	0.07	0.06	3.27	0.02	3.48	1.88	0.67	1.40
PB 051596 GCR1	Procedural Blank	0.00	0.00	0.01	0.01	0.11	0.06	0.01	0.00	0.00	0.00	0.00	0.99	0.00	0.93	0.56	0.41	0.18
PB 051596 GCR2	Procedural Blank	0.00	0.00	0.01	0.01	0.09	0.06	0.01	0.00	0.00	0.00	0.00	0.89	0.00	0.84	0.50	0.42	0.15
PB 051596 GCR3	Procedural Blank	0.00	0.00	0.01	0.01	0.10	0.06	0.01	0.00	0.00	0.00	0.00	1.26	0.00	1.18	0.63	0.49	0.22
PB AVERAGE:		0.01	0.10	0.17	0.76	1.67	0.14	0.13	0.04	0.16	0.03	0.02	1.53	0.01	1.58	0.81	0.42	0.57
SD(N-1):		0.02	0.15	0.17	1.11	2.36	0.13	0.17	0.06	0.24	0.04	0.03	1.46	0.01	1.63	0.80	0.27	0.66
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)	0.07	0.55	0.68	4.08	8.75	0.53	0.64	0.24	0.89	0.13	0.13	5.91	0.03	6.49	3.20	1.24	2.55
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)	0.21	1.59	1.87	11.83	25.27	1.43	1.83	0.69	2.59	0.38	0.37	16.12	0.10	17.93	8.78	3.16	7.16

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	042	041	064	040	067	063	074	070,076	066	095	091	056,060	092	084	101	099	119
12400 A	HUDWDE-2	4.4	< 0.85	< 2.33	< 0.85	< 2.33	36.2	209.0	8.7	7.8	7.6	< 2.33	36.5	30.5	< 0.85	23.5	114.5	4.1
12400 B	HUDWDE-2	4.5	< 0.85	< 2.33	< 0.85	< 2.33	35.2	188.9	8.9	7.3	8.7	< 2.33	35.3	29.8	< 0.85	22.6	111.2	3.8
12400 C	HUDWDE-2	4.0	< 0.85	< 2.33	< 0.85	< 2.33	33.7	193.1	8.2	7.2	7.2	< 2.33	33.6	28.5	< 0.85	21.5	105.8	3.5
AVG:	(Average)	4.3					35.0	197.0	8.6	7.4	7.8		35.1	29.6		22.5	110.5	3.8
SD(N-1):	(Sample Standard Deviation)	0.3					1.2	10.6	0.3	0.4	0.8		1.4	1.0		1.0	4.4	0.3
% RSD:	(% Relative Standard Deviation)	6					4	5	4	5	10		4	4		4	4	8
12402 A	HUDWDA-4	11.3	< 0.85	< 0.85	< 0.85	< 0.85	7.9	36.5	< 2.33	24.6	4.1	< 0.85	4.4	5.6	< 0.85	4.5	23.1	< 0.85
12402 B	HUDWDA-4	12.2	< 0.85	< 0.85	< 0.85	< 0.85	8.0	37.5	< 2.33	26.7	4.0	< 0.85	4.4	5.8	< 0.85	4.5	23.2	< 0.85
12402 C	HUDWDA-4	13.7	< 0.85	< 0.85	< 0.85	< 0.85	8.4	39.3	< 2.33	27.8	4.3	< 0.85	4.6	6.2	< 0.85	4.7	24.3	< 0.85
AVG:		12.4					8.1	37.7		26.4	4.1		4.5	5.9		4.6	23.5	
SD(N-1):		1.2					0.3	1.4		1.6	0.2		0.1	0.3		0.1	0.7	
% RSD:		10					4	4		6	4		2	5		3	3	
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85
12511 C	TS-CITH	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85
AVG:																		
SD(N-1):																		
% RSD:																		
12407 GCR1	TS-A100	101.8	84.5	13.8	23.7	57.6	212.8	1309.2	1595.1	1113.3	1206.0	267.9	464.0	226.2	18.6	1059.1	728.7	47.1
12407 GCR2	TS-A100	128.7	76.1	14.0	22.3	56.5	198.3	1367.8	1589.1	1032.0	1174.3	305.8	429.7	256.9	16.6	1165.8	763.7	46.3
12407 GCR3	TS-A100	106.6	81.5	9.7	21.4	54.4	200.5	1357.0	1561.2	1120.2	1145.9	318.3	342.4	280.6	14.6	1159.4	745.5	44.7
AVG:		112.4	80.7	12.5	22.5	56.2	203.9	1344.7	1581.8	1088.5	1175.4	297.3	412.0	254.6	16.6	1128.1	746.0	46.0
SD(N-1):		14.3	4.3	2.4	1.2	1.6	7.8	31.2	18.1	49.1	30.1	26.3	62.7	27.2	2.0	59.8	17.5	1.2
% RSD:		13	5	20	5	3	4	2	1	5	3	9	15	11	12	5	2	3
12408 GCR1	TS-E204	384.0	307.8	408.2	82.8	77.9	266.1	1497.5	1300.5	982.6	536.1	266.9	439.0	292.2	94.8	753.0	632.2	41.8
12408 GCR2	TS-E204	384.0	298.6	410.4	80.3	75.8	259.0	1565.3	1256.3	948.2	529.0	235.6	344.9	290.3	93.9	804.2	633.1	40.3
12408 GCR3	TS-E204	366.3	281.6	425.2	79.0	73.9	253.4	1553.7	1310.6	1020.3	564.5	264.1	328.6	292.1	95.4	779.8	630.7	39.3
AVG:		378.1	296.0	414.6	80.7	75.9	259.5	1538.8	1289.2	983.7	543.2	255.5	370.8	291.5	94.7	779.0	632.0	40.5
SD(N-1):		10.2	13.3	9.2	1.9	2.0	6.4	36.3	28.9	36.1	18.8	17.3	59.6	1.1	0.7	25.6	1.2	1.3
% RSD:		3	4	2	2	3	2	2	2	4	3	7	16	0	1	3	0	3
12424 GCR1	TS-C339-10	1104.2	265.3	508.9	115.1	71.5	112.1	1094.7	1141.1	77.8	164.7	112.4	543.0	111.6	69.6	684.0	524.2	22.7
12424 GCR2	TS-C339-10	1080.3	257.4	501.1	111.5	69.4	108.6	1074.8	1106.4	75.0	132.5	112.2	534.8	108.9	67.3	671.1	517.3	22.0
12424 GCR3	TS-C339-10	1138.9	299.9	510.4	118.4	73.3	115.1	1160.3	1188.8	78.1	138.4	119.2	560.4	115.9	71.8	704.3	539.7	23.2
AVG:		1107.8	274.2	506.8	115.0	71.4	111.9	1109.9	1145.4	77.0	145.2	114.6	546.1	112.1	69.6	686.5	527.1	22.6
SD(N-1):		29.5	22.7	5.0	3.4	2.0	3.3	44.7	41.4	1.7	17.1	4.0	13.1	3.5	2.2	16.7	11.5	0.6
% RSD:		3	8	1	3	3	3	4	4	2	12	3	2	3	3	2	2	3
PC 050296 GCR1	Reference Material 6806-118	201.1	128.5	103.8	51.1	5.4	31.3	175.7	102.4	16.8	110.0	95.7	59.1	96.2	83.4	372.5	362.5	15.5
PC 050296 GCR2	Reference Material 6806-118	199.7	126.4	103.7	52.4	5.1	31.7	171.4	105.7	16.2	116.7	95.7	55.4	104.4	94.8	370.6	364.1	16.3
PC 050296 GCR3	Reference Material 6806-118	204.8	103.7	111.6	46.3	4.4	26.8	175.9	79.1	16.2	126.7	82.7	55.6	91.7	85.3	378.4	370.1	14.0
REPLICATE AVG:		201.9	119.5	106.4	49.9	5.0	29.9	174.3	95.7	16.4	117.8	91.3	56.7	97.4	87.8	373.9	365.5	15.3
SD(N-1):		2.6	13.8	4.5	3.2	0.5	2.7	2.6	14.5	0.3	8.4	7.5	2.1	6.4	6.1	4.1	4.0	1.2
% RSD:		1	12	4	6	10	9	1	15	2	7	8	4	7	7	1	1	8
PC 050796 GCR1	Reference Material 6806-118	187.0	103.4	99.4	41.6	4.8	21.4	161.6	82.8	15.7	98.5	68.6	50.9	58.1	67.9	347.8	327.9	14.1
PC 050796 GCR2	Reference Material 6806-118	183.7	96.7	94.7	40.8	4.7	21.8	157.4	81.0	14.8	105.8	65.8	48.0	59.0	67.0	341.0	323.3	14.0
PC 050796 GCR3	Reference Material 6806-118	188.9	101.9	102.2	40.9	4.7	20.9	161.8	81.2	15.2	109.9	66.7	48.8	56.6	66.6	351.3	338.4	13.7
REPLICATE AVG:		186.5	100.7	98.8	41.1	4.7	21.4	160.3	81.6	15.3	104.7	67.0	49.2	57.9	67.2	346.7	329.8	13.9
SD(N-1):		2.6	3.5	3.8	0.5	0.1	0.5	2.5	1.0	0.5	5.8	1.4	1.5	1.2	0.7	5.2	7.7	0.2
% RSD:		1	3	4	1	2	2	2	1	3	6	2	3	2	1	2	2	1

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	042	041	064	040	067	063	074	070,076	066	095	091	056,060	092	084	101	099	119
PC 051596 GCR1	Reference Material 6806-118	215.4	131.3	90.9	58.0	< 2.33	40.6	143.0	116.7	146.6	160.9	98.5	63.5	102.4	93.2	321.1	263.4	19.8
PC 051596 GCR2	Reference Material 6806-118	200.6	129.2	98.9	55.4	< 2.33	35.3	146.0	105.4	139.2	151.6	95.1	60.8	98.3	79.8	361.6	296.1	18.9
PC 051596 GCR3	Reference Material 6806-118	203.4	125.5	93.4	56.2		38.8	144.2	112.7	171.7	164.9	98.9	62.0	98.0	81.6	361.9	276.9	19.0
REPLICATE AVG:		206.5	128.7	94.4	56.5		38.3	144.4	111.6	152.5	159.1	97.5	62.1	99.5	84.8	348.2	278.8	19.3
SD(N-1):		7.8	3.0	4.1	1.3		2.7	1.5	5.7	17.0	6.8	2.1	1.4	2.5	7.3	23.4	16.4	0.5
% RSD:		4	2	4	2		7	1	5	11	4	2	2	2	9	7	6	2
PC Baseline	Reference Material 6806	**194.2**	**114.1**	**101.3**	**47.4**	**4.8**	**29.3**	**137.9**	**82.8**	**364.4**	**173.9**	**77.2**	**46.5**	**85.4**	**76.0**	**343.8**	**303.3**	**17.1**
MS 050296 GCR1	Negative Control	6.2	3.2	3.8	< 2.33	< 0.85	< 0.85	3.7	9.0	< 0.85	11.4	< 2.33	2.7	< 2.33	3.3	13.7	4.7	< 0.85
MS 050296 GCR2	Negative Control	5.9	3.5	3.6	< 2.33	< 0.85	< 0.85	3.6	8.9	< 0.85	10.4	< 2.33	2.7	< 2.33	3.2	13.4	4.7	< 0.85
MS 050296 GCR3	Negative Control	5.8	3.3	3.5	< 2.33	< 0.85	< 0.85	3.5	8.6	< 0.85	11.4	< 2.33	2.6	< 2.33	3.1	13.1	4.5	< 0.85
REPLICATE AVG:		6.0	3.3	3.6				3.6	8.8		11.1		2.7		3.2	13.4	4.6	
SD(N-1):		0.2	0.1	0.2				0.1	0.2		0.6		0.1		0.1	0.3	0.1	
% RSD:		4	3	4				3	2		5		2		2	2	3	
MS 050796 GCR1	Negative Control 654C	7.3	4.3	5.0	2.4	< 0.85	< 0.85	5.9	12.3	9.4	13.9	2.5	4.0	3.4	4.6	19.1	8.3	< 0.85
MS 050796 GCR2	Negative Control 654C	8.2	3.6	5.0	< 2.33	< 0.85	< 0.85	5.4	11.3	7.3	15.5	< 2.33	3.6	3.6	4.6	18.5	7.8	< 0.85
MS 050796 GCR3	Negative Control 654C	6.4	4.1	4.6	< 2.33	< 0.85	< 0.85	5.1	10.8	8.9	12.4	< 2.33	3.3	3.4	4.0	16.8	6.8	< 0.85
REPLICATE AVG:		7.3	4.0	4.9	2.3			5.5	11.5	8.5	13.9	2.3	3.6	3.5	4.4	18.1	7.6	
SD(N-1):		0.9	0.3	0.3	0.1			0.4	0.7	1.1	1.6	0.1	0.4	0.1	0.3	1.2	0.7	
% RSD:		12	8	5	5			7	6	13	11	5	10	3	7	7	10	
MS 051596 GCR1	Negative Control 654C	6.5	3.4	4.3	< 2.33	< 0.85	< 0.85	4.2	9.3	6.0	13.7	< 2.33	2.9	3.2	4.2	17.1	6.6	< 0.85
MS 051596 GCR2	Negative Control 654C	6.5	4.0	3.8	< 2.33	< 0.85	< 0.85	4.4	9.8	6.5	14.0	2.4	2.4	3.4	4.1	16.3	6.2	< 0.85
MS 051596 GCR3	Negative Control 654C	6.8	3.9	3.6	< 2.33	< 0.85	< 0.85	4.3	9.4	6.9	14.2	< 2.33	< 2.33	3.4	4.1	17.0	5.9	< 0.85
REPLICATE AVG:		6.6	3.8	3.9				4.3	9.5	6.5	14.0	2.2	2.5	3.3	4.1	16.8	6.2	
SD(N-1):		0.2	0.3	0.4				0.1	0.3	0.4	0.3	0.2	0.4	0.1	0.1	0.4	0.4	
% RSD:		3	9	10				2	3	7	2	10	16	5	2	3	6	
MB 050296	Negative Control	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 050796	Negative Control 654C	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85	2.5	< 0.85	< 0.85	< 0.85	< 0.85	2.6	< 2.33	< 0.85
MB 051596	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85
PB 050296 GCR1	Procedural Blank	0.04	0.02	0.04	0.01	0.02	0.00	0.02	0.09	0.02	0.19	0.03	0.02	0.04	0.06	0.22	0.10	0.00
PB 050296 GCR2	Procedural Blank	0.03	0.02	0.04	0.01	0.02	0.00	0.02	0.07	0.02	0.18	0.03	0.02	0.04	0.05	0.22	0.11	0.00
PB 050296 GCR3	Procedural Blank	0.03	0.02	0.04	0.01	0.02	0.00	0.02	0.10	0.02	0.18	0.04	0.02	0.05	0.06	0.23	0.13	0.00
PB 050796 GCR1 (b)	Procedural Blank	2.66	1.05	1.08	0.22	0.23	0.30	2.58	3.52	0.20	0.44	0.29	1.20	0.20	0.15	1.39	0.99	0.06
PB 050796 GCR2 (b)	Procedural Blank	2.39	0.91	1.08	0.17	0.23	0.28	2.43	3.32	0.18	0.50	0.28	1.14	0.20	0.14	1.31	0.94	0.05
PB 050796 GCR3 (b)	Procedural Blank	2.52	0.87	0.98	0.16	0.22	0.26	2.34	3.20	0.17	0.46	0.27	1.10	0.19	0.14	1.28	0.91	0.05
PB 051596 GCR1	Procedural Blank	0.22	0.12	0.22	0.02	0.01	0.13	0.77	0.55	0.27	1.08	0.08	0.00	0.12	0.02	0.64	0.52	0.01
PB 051596 GCR2	Procedural Blank	0.18	0.13	0.21	0.02	0.01	0.10	0.64	0.46	0.23	0.91	0.07	0.00	0.12	0.02	0.58	0.43	0.01
PB 051596 GCR3	Procedural Blank	0.22	0.12	0.27	0.02	0.01	0.14	0.71	0.53	0.29	1.05	0.09	0.00	0.11	0.02	0.73	0.55	0.01
PB AVERAGE:		0.92	0.36	0.44	0.07	0.08	0.13	1.06	1.32	0.15	0.55	0.13	0.39	0.12	0.08	0.73	0.52	0.02
SD(N-1):		1.21	0.44	0.47	0.09	0.11	0.12	1.09	1.54	0.11	0.37	0.11	0.57	0.07	0.06	0.49	0.36	0.03
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)	4.54	1.69	1.83	0.33	0.40	0.50	4.32	5.92	0.48	1.66	0.47	2.10	0.32	0.24	2.19	1.61	0.10
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)	12.99	4.78	5.09	0.93	1.14	1.35	11.94	16.67	1.25	4.24	1.27	6.08	0.79	0.64	5.59	4.15	0.29

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	083	097	087	136	110	082	151	135,144,124	147	107	123,149	118	134	114	131,122	146	153
12400 A	HUDWDE-2	< 0.85	< 0.85	5.9	< 0.85	11.2	< 0.85	6.7	4.9	4.3	9.5	15.8	112.3	< 0.85	7.9	2.9	18.9	42.8
12400 B	HUDWDE-2	< 0.85	< 0.85	6.2	< 0.85	10.7	< 0.85	6.5	4.6	3.6	9.6	15.4	108.8	< 0.85	7.9	2.6	18.2	41.6
12400 C	HUDWDE-2	< 0.85	< 0.85	5.9	< 0.85	10.4	< 0.85	6.2	3.6	4.2	8.6	14.8	104.6	< 0.85	7.4	2.4	17.4	40.0
AVG:	(Average)			6.0		10.7		6.5	4.4	4.0	9.2	15.4	108.5		7.7	2.6	18.2	41.5
SD(N-1):	(Sample Standard Deviation)			0.2		0.4		0.2	0.7	0.4	0.6	0.5	3.8		0.3	0.3	0.8	1.4
% RSD:	(% Relative Standard Deviation)			3		4		4	15	10	6	3	4		4	10	4	3
12402 A	HUDWDA-4	< 0.85	< 0.85	< 2.33	< 0.85	2.7	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	2.5	21.2	< 0.85	< 2.33	< 0.85	5.1	11.3
12402 B	HUDWDA-4	< 0.85	< 0.85	< 2.33	< 0.85	2.4	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	2.4	21.1	< 0.85	< 2.33	< 0.85	5.1	11.4
12402 C	HUDWDA-4	< 0.85	< 0.85	< 2.33	< 0.85	3.3	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33	2.7	22.6	< 0.85	< 2.33	< 0.85	5.4	12.1
AVG:						2.8						2.6	21.6				5.2	11.6
SD(N-1):						0.4						0.1	0.9				0.2	0.4
% RSD:						16						5	4				3	3
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.1
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.0
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.0
AVG:																		3.1
SD(N-1):																		0.1
% RSD:																		2
12407 GCR1	TS-A100	13.0	86.2	411.1	21.6	583.9	16.1	54.1	66.4	23.9	95.2	243.3	652.3	< 2.33	50.0	10.7	111.8	355.6
12407 GCR2	TS-A100	12.7	86.6	411.4	22.1	578.4	16.3	56.3	64.0	25.3	85.2	257.4	636.9	< 2.33	47.9	11.5	111.1	364.2
12407 GCR3	TS-A100	12.1	85.1	417.1	21.1	568.8	17.6	54.3	57.2	22.6	72.4	258.7	599.9	< 2.33	49.3	12.1	109.2	355.2
AVG:		12.6	86.0	413.2	21.6	577.0	16.6	54.9	62.6	23.9	84.2	253.2	629.7		49.0	11.4	110.7	358.3
SD(N-1):		0.4	0.8	3.4	0.5	7.6	0.8	1.2	4.8	1.3	11.4	8.5	26.9		1.0	0.7	1.4	5.1
% RSD:		3	1	1	2	1	5	2	8	6	14	3	4		2	6	1	1
12408 GCR1	TS-E204	31.2	211.1	311.5	16.0	451.7	53.8	55.0	98.2	20.1	112.9	323.9	535.2	2.4	58.9	9.1	87.7	191.1
12408 GCR2	TS-E204	30.2	205.2	277.7	15.8	446.8	51.9	53.4	95.8	20.3	110.9	317.7	591.4	< 2.33	57.0	9.1	86.5	191.6
12408 GCR3	TS-E204	29.3	201.0	247.9	16.3	421.2	51.7	53.8	92.9	19.8	107.8	309.3	544.4	< 2.33	55.1	9.2	84.7	167.9
AVG:		30.2	205.8	279.0	16.0	439.9	52.4	54.0	95.6	20.1	110.5	317.0	557.0	2.3	57.0	9.1	86.3	183.5
SD(N-1):		0.9	5.1	31.8	0.2	16.3	1.2	0.8	2.7	0.3	2.6	7.3	30.1	0.1	1.9	0.0	1.6	13.5
% RSD:		3	2	11	2	4	2	2	3	1	2	2	5	6	3	0	2	7
12424 GCR1	TS-C339-10	42.6	271.8	303.5	8.6	443.5	94.3	30.8	52.8	8.0	57.7	154.4	519.8	8.3	36.4	17.2	40.6	103.0
12424 GCR2	TS-C339-10	40.5	267.2	298.3	8.1	444.2	91.8	29.9	51.2	9.7	54.6	147.8	505.6	7.8	37.8	14.5	39.8	101.4
12424 GCR3	TS-C339-10	42.9	280.5	313.6	8.8	462.3	96.9	31.9	54.1	9.9	57.7	156.9	530.2	8.3	39.5	15.2	41.8	106.2
AVG:		42.0	273.2	305.1	8.5	450.0	94.3	30.9	52.7	9.2	56.7	153.1	518.6	8.1	37.9	15.6	40.7	103.5
SD(N-1):		1.3	6.8	7.8	0.4	10.7	2.5	1.0	1.5	1.0	1.8	4.7	12.3	0.2	1.6	1.3	1.0	2.4
% RSD:		3	2	3	4	2	3	3	3	11	3	3	2	3	4	9	2	2
PC 050296 GCR1	Reference Material 6806-118	34.3	168.5	164.6	15.5	228.7	57.5	42.4	34.2	7.6	34.6	124.0	256.0	22.2	16.4	3.7	43.5	122.4
PC 050296 GCR2	Reference Material 6806-118	35.3	167.7	160.2	18.4	227.4	59.6	40.2	35.2	8.5	36.7	123.1	258.7	25.4	14.7	3.8	45.6	121.4
PC 050296 GCR3	Reference Material 6806-118	30.1	172.1	185.6	15.5	233.0	53.1	39.2	32.2	7.4	33.9	125.2	266.8	23.2	15.0	4.2	40.7	123.9
REPLICATE AVG:		33.2	169.4	170.2	16.5	229.7	56.8	40.6	33.9	7.8	35.1	124.1	260.5	23.6	15.4	3.9	43.3	122.6
SD(N-1):		2.8	2.4	13.6	1.7	2.9	3.3	1.6	1.6	0.6	1.5	1.1	5.6	1.6	1.0	0.3	2.4	1.3
% RSD:		8	1	8	10	1	6	4	5	8	4	1	2	7	6	7	6	1
PC 050796 GCR1	Reference Material 6806-118	29.2	153.0	146.9	27.7	210.8	45.6	37.0	30.6	8.4	38.5	114.6	234.4	11.5	11.8	7.2	38.4	113.8
PC 050796 GCR2	Reference Material 6806-118	28.9	150.8	146.7	27.4	206.9	44.8	35.6	28.4	6.9	37.2	110.7	230.6	11.2	12.5	6.2	38.6	109.0
PC 050796 GCR3	Reference Material 6806-118	28.5	157.8	153.7	26.6	214.0	44.8	36.2	28.0	6.7	38.9	114.8	240.1	11.1	11.8	6.9	38.4	114.9
REPLICATE AVG:		28.9	153.9	149.1	27.2	210.6	45.1	36.3	29.0	7.3	38.2	113.4	235.0	11.3	12.0	6.8	38.5	112.6
SD(N-1):		0.4	3.5	4.0	0.6	3.5	0.5	0.7	1.4	0.9	0.9	2.3	4.8	0.2	0.4	0.5	0.1	3.1
% RSD:		1	2	3	2	2	1	2	5	12	2	2	2	2	3	7	0	3

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	083	097	087	136	110	082	151	135,144,124	147	107	123,149	118	134	114	131,122	146	153
PC 051596 GCR1	Reference Material 6806-118	37.6	142.2	137.6	22.2	200.4	67.0	50.7	38.7	9.7	37.4	115.6	196.7	25.5	33.1	20.4	49.1	105.9
PC 051596 GCR2	Reference Material 6806-118	35.9	159.4	149.4	18.3	219.6	65.0	48.4	37.0	9.2	35.8	131.6	185.1	24.5	33.0	19.8	47.1	118.6
PC 051596 GCR3	Reference Material 6806-118	36.5	157.6	148.4	21.7	218.6	65.6	49.5	37.4	9.3	35.7	135.4	184.1	25.7	30.5	19.6	47.9	112.5
REPLICATE AVG:		36.7	153.1	145.1	20.8	212.9	65.9	49.5	37.7	9.4	36.3	127.6	188.6	25.3	32.2	19.9	48.0	112.3
SD(N-1):		0.8	9.5	6.6	2.1	10.8	1.0	1.2	0.9	0.3	1.0	10.5	7.0	0.6	1.5	0.4	1.0	6.3
% RSD:		2	6	5	10	5	2	2	2	3	3	8	4	2	5	2	2	6
PC Baseline	Reference Material 6806	**39.1**	**155.4**	**155.8**	**53.7**	**217.0**	**53.4**	**38.2**	**25.1**	**7.4**	**37.9**	**110.8**	**199.8**	**10.6**	**16.6**	**6.9**	**42.9**	**111.6**
MS 050296 GCR1	Negative Control	< 0.85	3.8	5.8	2.7	8.9	< 2.33	4.6	3.2	< 0.85	< 0.85	12.1	6.1	< 2.33	< 0.85	< 0.85	< 2.33	7.2
MS 050296 GCR2	Negative Control	< 0.85	3.7	5.6	2.7	8.8	< 2.33	4.5	3.1	< 0.85	< 0.85	12.0	5.9	< 2.33	< 0.85	< 0.85	< 2.33	7.1
MS 050296 GCR3	Negative Control	< 0.85	3.6	5.4	2.6	8.4	< 2.33	4.4	3.0	< 0.85	< 0.85	11.6	5.8	< 2.33	< 0.85	< 0.85	< 2.33	6.9
REPLICATE AVG:			3.7	5.6	2.7	8.7		4.5	3.1			11.9	6.0					7.1
SD(N-1):			0.1	0.2	0.1	0.3		0.1	0.1			0.3	0.1					0.2
% RSD:			2	3	3	3		2	3			2	2					2
MS 050796 GCR1	Negative Control 654C	< 0.85	5.0	7.4	3.3	11.3	< 2.33	5.6	4.2	< 0.85	< 0.85	15.3	8.8	< 2.33	< 0.85	< 0.85	2.7	10.3
MS 050796 GCR2	Negative Control 654C	< 0.85	4.8	7.4	3.4	10.8	< 2.33	5.5	4.0	< 0.85	< 0.85	14.6	8.5	< 2.33	< 0.85	< 0.85	2.6	9.8
MS 050796 GCR3	Negative Control 654C	< 2.33	4.6	7.1	3.3	10.5	< 2.33	5.4	3.9	< 0.85	< 0.85	14.2	8.2	< 2.33	< 0.85	< 0.85	2.5	9.3
REPLICATE AVG:			4.8	7.3	3.3	10.9		5.5	4.0			14.7	8.5				2.6	9.8
SD(N-1):			0.2	0.2	0.0	0.4		0.1	0.1			0.5	0.3				0.1	0.5
% RSD:			4	2	1	4		2	4			4	4				4	5
MS 051596 GCR1	Negative Control 654C	< 0.85	4.4	6.5	3.5	10.3	< 2.33	5.5	3.9	< 0.85	< 0.85	14.9	6.9	< 2.33	< 0.85	< 0.85	2.5	9.4
MS 051596 GCR2	Negative Control 654C	< 0.85	4.4	6.3	3.6	9.5	< 2.33	5.4	3.7	< 0.85	< 0.85	14.2	7.3	< 2.33	< 0.85	< 0.85	2.3	8.8
MS 051596 GCR3	Negative Control 654C	< 0.85	4.5	6.7	3.5	9.3	< 2.33	5.5	3.6	< 0.85	< 0.85	14.1	7.3	< 2.33	< 0.85	< 0.85	< 2.33	8.7
REPLICATE AVG:			4.4	6.5	3.5	9.7		5.5	3.7			14.4	7.2				2.4	9.0
SD(N-1):			0.0	0.2	0.1	0.5		0.1	0.2			0.4	0.2				0.1	0.4
% RSD:			1	3	2	5		1	5			3	3				5	5
MB 050296	Negative Control	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 050796	Negative Control 654C	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33
MB 051596	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33
PB 050296 GCR1	Procedural Blank	0.01	0.05	0.15	0.04	0.15	0.03	0.06	0.05	0.00	0.00	0.20	0.10	0.07	0.00	0.00	0.02	0.10
PB 050296 GCR2	Procedural Blank	0.01	0.06	0.14	0.04	0.14	0.03	0.05	0.05	0.00	0.00	0.17	0.09	0.07	0.00	0.00	0.02	0.10
PB 050296 GCR3	Procedural Blank	0.01	0.05	0.12	0.05	0.17	0.03	0.06	0.05	0.00	0.00	0.19	0.13	0.06	0.00	0.00	0.02	0.12
PB 050796 GCR1 (b)	Procedural Blank	0.09	0.54	0.82	0.03	1.20	0.18	0.05	0.10	0.02	0.11	0.32	1.05	0.01	0.06	0.03	0.08	0.31
PB 050796 GCR2 (b)	Procedural Blank	0.08	0.51	0.74	0.03	1.13	0.16	0.05	0.10	0.02	0.10	0.31	0.98	0.01	0.07	0.03	0.08	0.28
PB 050796 GCR3 (b)	Procedural Blank	0.07	0.50	0.94	0.03	1.08	0.16	0.05	0.09	0.02	0.10	0.29	0.95	0.01	0.06	0.03	0.06	0.25
PB 051596 GCR1	Procedural Blank	0.01	0.10	0.16	0.01	0.31	0.02	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.16
PB 051596 GCR2	Procedural Blank	0.01	0.09	0.15	0.01	0.29	0.02	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.16
PB 051596 GCR3	Procedural Blank	0.01	0.13	0.20	0.01	0.28	0.02	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.18
PB AVERAGE:		0.03	0.23	0.38	0.03	0.53	0.07	0.05	0.06	0.01	0.04	0.17	0.37	0.03	0.03	0.02	0.04	0.18
SD(N-1):		0.04	0.22	0.34	0.01	0.46	0.07	0.01	0.03	0.01	0.05	0.13	0.47	0.03	0.03	0.01	0.03	0.08
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)	0.14	0.88	1.41	0.06	1.91	0.29	0.08	0.14	0.03	0.18	0.55	1.78	0.12	0.12	0.06	0.12	0.42
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)	0.39	2.41	3.81	0.15	5.12	0.80	0.14	0.33	0.09	0.52	1.45	5.07	0.33	0.33	0.16	0.31	0.96

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	132	105	141	179	137	176	130	138	158	129	178	182,187	183	128	167	185	174
12400 A	HUDWDE-2	< 2.33	53.0	< 2.33	< 0.85	4.3	< 0.85	4.2	60.5	4.5	< 0.85	5.0	16.7	5.2	18.5	3.3	< 0.85	< 2.33
12400 B	HUDWDE-2	< 2.33	52.2	< 2.33	< 0.85	4.0	< 0.85	3.7	59.2	4.6	< 0.85	4.7	15.8	4.7	17.3	3.1	< 0.85	< 2.33
12400 C	HUDWDE-2	< 2.33	49.8	< 2.33	< 0.85	3.8	< 0.85	3.5	56.2	4.1	< 0.85	4.5	15.1	4.2	16.9	3.0	< 0.85	< 2.33
AVG:	(Average)		51.7			4.0		3.8	58.6	4.4		4.7	15.9	4.7	17.6	3.1		
SD(N-1):	(Sample Standard Deviation)		1.7			0.2		0.4	2.2	0.3		0.3	0.8	0.5	0.8	0.2		
% RSD:	(% Relative Standard Deviation)		3			5		9	4	7		6	5	10	5	6		
12402 A	HUDWDA-4	< 0.85	8.5	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	13.3	< 2.33	< 0.85	< 2.33	5.6	< 2.33	4.0	< 0.85	< 0.85	< 0.85
12402 B	HUDWDA-4	< 0.85	8.1	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	13.2	< 2.33	< 0.85	< 2.33	5.6	< 2.33	4.0	< 0.85	< 0.85	< 0.85
12402 C	HUDWDA-4	< 0.85	8.8	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	14.1	< 2.33	< 0.85	< 2.33	6.1	< 2.33	4.2	< 0.85	< 0.85	< 0.85
AVG:			8.5						13.5				5.8		4.1			
SD(N-1):			0.3						0.5				0.2		0.1			
% RSD:			4						4				4		3			
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.3	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.1	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	3.2	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
AVG:									3.2									
SD(N-1):									0.1									
% RSD:									2									
12407 GCR1	TS-A100	145.3	333.4	50.9	17.9	60.5	5.4	59.3	568.6	57.5	15.8	25.8	122.1	59.3	139.1	39.0	5.3	39.5
12407 GCR2	TS-A100	132.6	360.3	50.7	16.4	59.1	6.4	56.9	585.0	52.6	14.4	25.7	121.2	58.7	144.3	39.0	4.9	39.2
12407 GCR3	TS-A100	141.8	335.1	56.6	15.1	57.5	5.1	54.9	578.7	52.1	10.9	22.2	121.5	56.0	139.5	37.6	5.2	37.3
AVG:		139.9	342.9	52.8	16.5	59.0	5.6	57.0	577.4	54.1	13.7	24.6	121.6	58.0	141.0	38.5	5.1	38.7
SD(N-1):		6.6	15.1	3.3	1.4	1.5	0.7	2.2	8.3	3.0	2.5	2.1	0.5	1.8	2.9	0.8	0.2	1.2
% RSD:		5	4	6	8	3	12	4	1	5	18	8	0	3	2	2	3	3
12408 GCR1	TS-E204	139.8	167.1	53.0	16.6	49.6	2.9	46.5	347.5	57.2	15.4	19.9	90.5	34.9	135.8	26.1	2.9	29.0
12408 GCR2	TS-E204	141.7	180.6	51.5	16.4	48.6	2.8	46.6	308.7	56.6	15.7	20.1	89.2	34.7	132.8	25.8	2.9	28.4
12408 GCR3	TS-E204	107.6	170.4	49.7	16.8	47.3	2.8	44.2	296.6	53.9	16.2	18.1	87.5	33.5	129.6	25.8	3.0	27.9
AVG:		129.7	172.7	51.4	16.6	48.5	2.8	45.8	317.6	55.9	15.8	19.4	89.1	34.4	132.7	25.9	2.9	28.4
SD(N-1):		19.2	7.1	1.7	0.2	1.2	0.1	1.4	26.6	1.7	0.4	1.1	1.5	0.8	3.1	0.2	0.0	0.6
% RSD:		15	4	3	1	2	2	3	8	3	3	6	2	2	2	1	1	2
12424 GCR1	TS-C339-10	72.1	288.0	36.1	3.2	22.3	< 2.33	24.9	193.0	26.0	17.9	7.2	34.6	16.4	71.3	11.8	< 2.33	12.2
12424 GCR2	TS-C339-10	63.1	286.0	35.0	3.0	21.6	< 2.33	24.2	191.8	25.5	17.1	7.1	33.3	15.0	69.2	11.5	< 2.33	11.3
12424 GCR3	TS-C339-10	67.8	298.2	37.2	3.2	22.8	< 2.33	25.6	201.0	26.9	17.9	7.7	35.7	16.7	72.8	12.1	< 2.33	12.6
AVG:		67.7	290.7	36.1	3.1	22.2		24.9	195.3	26.1	17.6	7.3	34.6	16.0	71.1	11.8		12.0
SD(N-1):		4.5	6.6	1.1	0.1	0.6		0.7	5.0	0.7	0.4	0.3	1.2	0.9	1.8	0.3		0.7
% RSD:		7	2	3	3	3		3	3	3	2	4	3	6	3	2		6
PC 050296 GCR1	Reference Material 6806-118	98.4	98.2	27.9	18.0	21.5	8.1	21.2	190.8	18.3	12.4	11.7	83.3	30.9	51.9	16.9	4.1	25.7
PC 050296 GCR2	Reference Material 6806-118	97.5	99.0	29.5	14.2	21.8	7.7	22.0	191.5	19.6	11.8	12.7	84.5	31.2	52.5	16.4	3.9	26.5
PC 050296 GCR3	Reference Material 6806-118	88.4	101.3	27.5	12.6	22.3	7.5	19.6	195.5	16.2	10.8	10.6	86.4	27.5	46.9	14.7	4.0	22.9
REPLICATE AVG:		94.7	99.5	28.3	14.9	21.8	7.8	20.9	192.6	18.1	11.7	11.7	84.7	29.8	50.4	16.0	4.0	25.1
SD(N-1):		5.5	1.6	1.0	2.8	0.4	0.3	1.2	2.6	1.7	0.8	1.0	1.6	2.0	3.1	1.2	0.1	1.9
% RSD:		6	2	4	18	2	4	6	1	9	7	9	2	7	6	7	3	8
PC 050796 GCR1	Reference Material 6806-118	68.5	90.7	24.2	14.1	19.4	3.0	20.9	177.5	16.4	10.4	10.4	77.1	27.3	44.7	15.2	3.4	20.6
PC 050796 GCR2	Reference Material 6806-118	66.7	90.2	23.6	14.4	19.5	2.9	20.7	174.2	16.2	10.2	10.2	76.9	26.8	44.5	14.7	3.3	20.3
PC 050796 GCR3	Reference Material 6806-118	59.4	92.8	25.4	13.8	20.4	3.1	20.3	180.6	16.0	10.3	10.0	79.4	26.8	44.3	14.9	3.3	20.5
REPLICATE AVG:		64.9	91.2	24.4	14.1	19.8	3.0	20.6	177.5	16.2	10.3	10.2	77.8	27.0	44.5	15.0	3.3	20.5
SD(N-1):		4.8	1.4	0.9	0.3	0.6	0.1	0.3	3.2	0.2	0.1	0.2	1.4	0.3	0.2	0.2	0.0	0.2
% RSD:		7	2	4	2	3	4	2	2	1	1	2	2	1	0	2	1	1

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	132	105	141	179	137	176	130	138	158	129	178	182,187	183	128	167	185	174
PC 051596 GCR1	Reference Material 6806-118	102.4	107.7	32.7	19.6	18.1	8.0	24.2	168.4	18.8	13.0	13.0	77.7	35.2	59.8	16.8	4.8	29.2
PC 051596 GCR2	Reference Material 6806-118	98.5	101.9	31.7	17.7	17.3	7.4	22.6	186.8	17.1	12.7	12.3	86.2	35.1	58.6	16.5	5.2	28.0
PC 051596 GCR3	Reference Material 6806-118	107.3	102.2	32.8	16.7	19.3	7.3	23.1	185.9	17.1	13.5	12.2	87.6	35.7	59.5	15.9	5.4	28.5
REPLICATE AVG:		102.7	103.9	32.4	18.0	18.2	7.6	23.3	180.4	17.7	13.0	12.5	83.9	35.3	59.3	16.4	5.2	28.5
SD(N-1):		4.5	3.2	0.6	1.5	1.0	0.3	0.8	10.4	1.0	0.4	0.5	5.4	0.3	0.6	0.4	0.3	0.6
% RSD:		4	3	2	8	6	5	4	6	5	3	4	6	1	1	3	6	2
PC Baseline	Reference Material 6806	**78.2**	**93.9**	**26.4**	**13.7**	**17.9**	**5.3**	**19.7**	**183.2**	**16.7**	**10.9**	**10.0**	**82.2**	**29.8**	**48.6**	**11.7**	**3.8**	**23.2**
MS 050296 GCR1	Negative Control	10.4	2.6	3.3	2.7	< 0.85	< 2.33	< 0.85	11.5	< 2.33	< 2.33	< 2.33	5.1	2.7	2.4	< 0.85	< 0.85	4.1
MS 050296 GCR2	Negative Control	9.3	2.7	3.2	2.6	< 0.85	< 2.33	< 0.85	11.5	< 2.33	< 2.33	< 0.85	5.0	2.4	< 2.33	< 0.85	< 0.85	4.0
MS 050296 GCR3	Negative Control	9.9	2.4	3.0	2.5	< 0.85	< 0.85	< 0.85	11.3	< 2.33	< 2.33	< 0.85	4.9	2.3	< 2.33	< 0.85	< 0.85	3.9
REPLICATE AVG:		9.8	2.6	3.2	2.6				11.4				5.0	2.5	2.3			4.0
SD(N-1):		0.6	0.2	0.1	0.1				0.1				0.1	0.2	0.1			0.1
% RSD:		6	6	3	3				1				2	8	3			2
MS 050796 GCR1	Negative Control 654C	12.0	3.7	4.0	3.1	< 2.33	< 2.33	< 2.33	15.4	< 2.33	< 0.85	< 2.33	7.8	3.3	3.3	< 0.85	< 0.85	4.9
MS 050796 GCR2	Negative Control 654C	12.2	3.6	3.8	3.3	< 0.85	< 2.33	< 2.33	15.3	< 2.33	< 0.85	< 2.33	7.7	3.2	3.2	< 0.85	< 0.85	4.8
MS 050796 GCR3	Negative Control 654C	12.5	3.6	3.5	3.7	< 0.85	< 2.33	< 2.33	14.8	< 2.33	< 0.85	< 2.33	7.5	3.1	3.0	< 0.85	< 0.85	4.7
REPLICATE AVG:		12.2	3.7	3.8	3.4				15.1				7.7	3.2	3.1			4.8
SD(N-1):		0.3	0.1	0.3	0.3				0.3				0.2	0.1	0.1			0.1
% RSD:		2	1	7	8				2				2	3	4			2
MS 051596 GCR1	Negative Control 654C	12.1	2.9	4.0	2.9	< 0.85	< 2.33	< 2.33	14.8	< 2.33	< 0.85	< 2.33	7.4	3.2	3.0	< 0.85	< 0.85	4.7
MS 051596 GCR2	Negative Control 654C	12.3	3.1	3.5	3.1	< 0.85	< 2.33	< 2.33	14.0	< 2.33	< 0.85	< 2.33	7.0	3.0	2.9	< 0.85	< 0.85	4.5
MS 051596 GCR3	Negative Control 654C	12.0	2.9	3.6	2.8	< 0.85	< 2.33	< 2.33	14.0	< 2.33	< 0.85	< 2.33	6.9	2.9	2.8	< 0.85	< 0.85	4.5
REPLICATE AVG:		12.1	3.0	3.7	2.9				14.3				7.1	3.1	2.9			4.6
SD(N-1):		0.2	0.1	0.3	0.2				0.4				0.3	0.1	0.1			0.1
% RSD:		1	4	8	6				3				4	5	4			3
MB 050296	Negative Control	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 050796	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 051596	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
PB 050296 GCR1	Procedural Blank	0.12	0.03	0.05	0.02	0.01	0.01	0.03	0.18	0.59	0.00	0.01	0.08	0.05	0.04	0.01	0.00	0.05
PB 050296 GCR2	Procedural Blank	0.10	0.03	0.04	0.02	0.01	0.01	0.03	0.16	0.50	0.00	0.01	0.08	0.05	0.03	0.01	0.00	0.05
PB 050296 GCR3	Procedural Blank	0.14	0.03	0.04	0.02	0.01	0.01	0.03	0.18	0.39	0.00	0.01	0.09	0.06	0.03	0.01	0.00	0.05
PB 050796 GCR1 (b)	Procedural Blank	0.23	0.68	0.13	0.02	0.05	0.03	0.07	0.56	0.09	0.32	0.01	0.14	0.04	0.11	0.02	0.00	0.04
PB 050796 GCR2 (b)	Procedural Blank	0.23	0.66	0.13	0.02	0.05	0.03	0.06	0.62	0.09	0.30	0.01	0.14	0.04	0.11	0.02	0.00	0.03
PB 050796 GCR3 (b)	Procedural Blank	0.23	0.61	0.12	0.02	0.05	0.03	0.06	0.46	0.07	0.29	0.01	0.10	0.04	0.10	0.02	0.00	0.03
PB 051596 GCR1	Procedural Blank	0.13	0.00	0.05	0.00	0.10	0.01	0.04	0.34	0.03	0.01	0.00	0.07	0.02	0.05	0.00	0.00	0.02
PB 051596 GCR2	Procedural Blank	0.15	0.00	0.04	0.00	0.10	0.01	0.04	0.29	0.03	0.01	0.00	0.07	0.02	0.04	0.00	0.00	0.02
PB 051596 GCR3	Procedural Blank	0.19	0.00	0.05	0.00	0.10	0.01	0.04	0.37	0.03	0.01	0.00	0.08	0.02	0.05	0.00	0.00	0.02
PB AVERAGE:		0.17	0.23	0.07	0.01	0.05	0.02	0.04	0.35	0.20	0.10	0.01	0.09	0.04	0.06	0.01	0.00	0.03
SD(N-1):		0.05	0.32	0.04	0.01	0.04	0.01	0.02	0.17	0.22	0.15	0.00	0.03	0.01	0.03	0.01	0.00	0.01
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)	0.32	1.18	0.19	0.04	0.17	0.04	0.10	0.86	0.87	0.55	0.02	0.17	0.08	0.16	0.03	0.00	0.07
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)	0.68	3.40	0.47	0.10	0.45	0.10	0.22	2.03	2.43	1.60	0.05	0.35	0.18	0.40	0.09	0.00	0.16

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	177	171,202	156	173	157,201	172	197	180	193	191	200	170,190	198 (a)	199	196,203
12400 A	HUDWDE-2	3.9	< 2.33	8.2	< 0.85	3.1	< 2.33	< 0.85	14.3	< 2.33	< 0.85	< 0.85	7.1	< 0.85	3.8	3.2
12400 B	HUDWDE-2	3.7	< 2.33	8.1	< 0.85	3.0	< 2.33	< 0.85	13.7	< 2.33	< 0.85	< 0.85	6.8	< 0.85	3.8	3.1
12400 C	HUDWDE-2	3.6	< 2.33	7.7	< 0.85	2.8	< 2.33	< 0.85	13.2	< 2.33	< 0.85	< 0.85	6.5	< 0.85	3.7	2.9
AVG:	(Average)	3.7		8.0		2.9			13.7				6.8		3.8	3.1
SD(N-1):	(Sample Standard Deviation)	0.2		0.2		0.2			0.6				0.3		0.1	0.1
% RSD:	(% Relative Standard Deviation)	5		3		6			4				4		2	4
12402 A	HUDWDA-4	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	4.8	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33
12402 B	HUDWDA-4	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	4.7	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33
12402 C	HUDWDA-4	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	5.0	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 2.33
AVG:									4.8							
SD(N-1):									0.2							
% RSD:									3							
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
AVG:																
SD(N-1):																
% RSD:																
12407 GCR1	TS-A100	47.2	26.5	59.7	< 2.33	29.0	13.4	< 0.85	159.2	12.1	4.5	< 2.33	72.2	2.8	41.0	38.2
12407 GCR2	TS-A100	46.6	25.3	61.5	2.4	31.8	13.3	< 0.85	162.4	11.1	4.4	< 2.33	69.0	< 2.33	38.3	37.8
12407 GCR3	TS-A100	44.9	25.2	61.2	< 2.33	34.3	12.8	< 0.85	159.9	14.1	4.1	< 2.33	70.7	2.7	39.5	36.7
AVG:		46.2	25.7	60.8	2.3	31.7	13.2		160.5	12.4	4.4		70.6	2.6	39.6	37.5
SD(N-1):		1.2	0.7	1.0	0.1	2.7	0.3		1.7	1.5	0.2		1.6	0.3	1.4	0.7
% RSD:		3	3	2	5	8	2		1	12	4		2	12	3	2
12408 GCR1	TS-E204	27.9	15.5	65.5	< 2.33	10.4	6.7	< 0.85	103.4	4.6	3.7	< 2.33	53.2	< 2.33	24.5	23.5
12408 GCR2	TS-E204	27.5	15.2	63.8	< 2.33	10.3	6.5	< 0.85	104.0	5.0	3.5	< 2.33	54.4	< 2.33	23.9	23.0
12408 GCR3	TS-E204	27.6	15.5	60.2	< 2.33	10.4	7.0	< 0.85	102.3	5.6	3.3	< 2.33	52.2	< 2.33	23.6	22.7
AVG:		27.7	15.4	63.2		10.4	6.7		103.2	5.0	3.5		53.3		24.0	23.0
SD(N-1):		0.2	0.2	2.7		0.1	0.3		0.9	0.5	0.2		1.1		0.5	0.4
% RSD:		1	1	4		0	4		1	10	6		2		2	2
12424 GCR1	TS-C339-10	12.2	6.0	31.9	< 0.85	12.0	3.1	< 0.85	50.4	2.7	< 2.33	< 0.85	23.7	< 0.85	8.8	7.9
12424 GCR2	TS-C339-10	11.8	5.4	31.5	< 0.85	11.7	3.0	< 0.85	51.3	2.6	< 2.33	< 0.85	23.0	< 0.85	8.7	7.6
12424 GCR3	TS-C339-10	12.6	5.5	33.2	< 0.85	12.2	3.1	< 0.85	54.5	2.7	< 2.33	< 0.85	24.1	< 0.85	8.9	8.1
AVG:		12.2	5.6	32.2		12.0	3.1		52.1	2.7			23.6		8.8	7.9
SD(N-1):		0.4	0.3	0.9		0.3	0.1		2.1	0.0			0.6		0.1	0.2
% RSD:		3	6	3		2	3		4	2			2		1	3
PC 050296 GCR1	Reference Material 6806-118	27.2	14.8	25.0	< 0.85	< 0.85	8.6	< 0.85	85.3	6.6	3.2	4.8	40.2	< 2.33	23.5	24.3
PC 050296 GCR2	Reference Material 6806-118	28.1	15.2	25.2	< 0.85	< 0.85	8.9	< 0.85	86.5	7.0	3.1	5.3	41.7	2.5	25.1	25.0
PC 050296 GCR3	Reference Material 6806-118	25.3	14.2	23.4	< 0.85	< 0.85	7.6	< 2.33	88.4	6.2	2.9	4.4	37.2	< 2.33	22.4	22.1
REPLICATE AVG:		26.9	14.7	24.5			8.3		86.7	6.6	3.1	4.8	39.7	2.2	23.7	23.8
SD(N-1):		1.5	0.6	1.0			0.7		1.6	0.4	0.2	0.5	2.3	0.3	1.4	1.5
% RSD:		5	4	4			8		2	6	6	10	6	16	6	6
PC 050796 GCR1	Reference Material 6806-118	23.8	10.5	22.5	< 0.85	< 0.85	5.9	< 0.85	78.5	5.2	3.7	< 2.33	33.3	< 2.33	19.2	18.9
PC 050796 GCR2	Reference Material 6806-118	23.4	10.3	22.3	< 0.85	< 0.85	5.8	< 0.85	78.1	4.9	2.8	< 2.33	32.9	2.5	19.0	18.7
PC 050796 GCR3	Reference Material 6806-118	23.3	9.3	23.4	< 0.85	< 0.85	5.6	< 0.85	81.3	5.0	3.6	< 2.33	32.8	2.5	19.1	18.8
REPLICATE AVG:		23.5	10.1	22.7			5.8		79.3	5.0	3.4		33.0	2.4	19.1	18.8
SD(N-1):		0.3	0.6	0.6			0.2		1.7	0.2	0.5		0.2	0.1	0.1	0.1
% RSD:		1	6	2			3		2	4	15		1	3	1	1

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	177	171,202	156	173	157,201	172	197	180	193	191	200	170,190	198 (a)	199	196,203
PC 051596 GCR1	Reference Material 6806-118	31.2	16.6	27.1	< 0.85	< 0.85	8.4	< 2.33	74.4	6.9	2.7	5.5	44.1	< 2.33	27.7	27.5
PC 051596 GCR2	Reference Material 6806-118	30.8	15.8	25.9	< 0.85	< 0.85	8.2	< 2.33	83.7	6.7	3.5	5.8	42.6	2.4	26.8	26.7
PC 051596 GCR3	Reference Material 6806-118	31.2	15.9	25.4	< 0.85	< 0.85	8.3	< 2.33	82.9	6.7	3.2	5.9	41.4	2.5	27.4	27.0
REPLICATE AVG:		31.1	16.1	26.1	0.0	0.0	8.3		80.3	6.8	3.1	5.8	42.7	2.4	27.3	27.1
SD(N-1):		0.3	0.4	0.9	0.0	0.0	0.1		5.2	0.1	0.4	0.2	1.3	0.2	0.5	0.4
% RSD:		1	3	3	0	0	2		6	1	13	4	3	7	2	2
PC Baseline	Reference Material 6806	24.6	13.2	27.0	4.7	11.1	7.2	0.9	78.0	5.5	3.6	3.1	35.9	1.8	20.9	20.7
MS 050296 GCR1	Negative Control	2.4	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	7.1	< 0.85	< 0.85	< 0.85	3.4	< 0.85	< 2.33	< 2.33
MS 050296 GCR2	Negative Control	2.4	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	7.0	< 0.85	< 0.85	< 0.85	3.4	< 0.85	< 2.33	< 2.33
MS 050296 GCR3	Negative Control	2.3	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	6.9	< 0.85	< 0.85	< 0.85	3.3	< 0.85	< 2.33	< 2.33
REPLICATE AVG:		2.4							7.0				3.4			
SD(N-1):		0.0							0.1				0.1			
% RSD:		2							2				2			
MS 050796 GCR1	Negative Control 654C	3.1	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	9.2	< 0.85	< 0.85	< 0.85	4.5	< 0.85	< 2.33	< 2.33
MS 050796 GCR2	Negative Control 654C	3.0	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	9.0	< 0.85	< 0.85	< 0.85	4.1	< 0.85	< 2.33	< 2.33
MS 050796 GCR3	Negative Control 654C	2.9	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	8.8	< 0.85	< 0.85	< 0.85	3.9	< 0.85	< 2.33	< 2.33
REPLICATE AVG:		3.0							9.0				4.2			
SD(N-1):		0.1							0.2				0.3			
% RSD:		3							2				7			
MS 051596 GCR1	Negative Control 654C	3.0	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	8.8	< 0.85	< 0.85	< 0.85	4.2	< 0.85	< 2.33	< 2.33
MS 051596 GCR2	Negative Control 654C	2.8	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	8.4	< 0.85	< 0.85	< 0.85	4.0	< 0.85	< 2.33	< 2.33
MS 051596 GCR3	Negative Control 654C	2.8	< 2.33	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	8.3	< 0.85	< 0.85	< 0.85	3.9	< 0.85	< 2.33	< 2.33
REPLICATE AVG:		2.9							8.5				4.0			
SD(N-1):		0.1							0.2				0.2			
% RSD:		4							3				4			
MB 050296	Negative Control	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
MB 050796	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85
MB 051596	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
PB 050296 GCR1	Procedural Blank	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.08	0.04	0.00	0.00	0.03	0.11	0.01	0.01
PB 050296 GCR2	Procedural Blank	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.08	0.04	0.00	0.00	0.03	0.12	0.01	0.01
PB 050296 GCR3	Procedural Blank	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.08	0.04	0.00	0.00	0.03	0.09	0.01	0.01
PB 050796 GCR1 (b)	Procedural Blank	0.03	0.01	0.07	0.00	0.02	0.01	0.00	0.10	0.00	0.00	0.00	0.05	0.08	0.05	0.01
PB 050796 GCR2 (b)	Procedural Blank	0.04	0.01	0.06	0.00	0.02	0.01	0.00	0.09	0.00	0.00	0.00	0.05	0.03	0.04	0.01
PB 050796 GCR3 (b)	Procedural Blank	0.04	0.01	0.06	0.00	0.02	0.01	0.00	0.10	0.00	0.00	0.00	0.04	0.05	0.04	0.01
PB 051596 GCR1	Procedural Blank	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.45	0.06	0.00
PB 051596 GCR2	Procedural Blank	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.44	0.06	0.00
PB 051596 GCR3	Procedural Blank	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.02	0.40	0.06	0.00
PB AVERAGE:		0.03	0.01	0.03	0.00	0.01	0.00	0.00	0.08	0.01	0.00	0.00	0.03	0.20	0.04	0.01
SD(N-1):		0.01	0.00	0.03	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.00	0.01	0.18	0.02	0.00
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)	0.05	0.01	0.12	0.00	0.03	0.02	0.00	0.12	0.07	0.00	0.00	0.06	0.73	0.10	0.02
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)	0.09	0.01	0.34	0.00	0.10	0.05	0.00	0.22	0.19	0.00	0.00	0.13	1.98	0.26	0.05

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	189	208,195	207	194	205	206	209	Total cPCBs
12400 A	HUDWDE-2	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1436
12400 B	HUDWDE-2	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1366
12400 C	HUDWDE-2	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	1324
AVG:	(Average)								1375
SD(N-1):	(Sample Standard Deviation)								57
% RSD:	(% Relative Standard Deviation)								4
12402 A	HUDWDA-4	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	328
12402 B	HUDWDA-4	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	330
12402 C	HUDWDA-4	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	351
AVG:									336
SD(N-1):									13
% RSD:									4
12511 A	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	36
12511 B	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	35
12511 C	TS-CITH	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	38
AVG:									36
SD(N-1):									2
% RSD:									4
12407 GCR1	TS-A100	4.0	12.4	< 2.33	28.3	2.8	16.7	4.9	21608
12407 GCR2	TS-A100	3.7	12.2	2.3	28.2	2.5	17.1	4.7	22020
12407 GCR3	TS-A100	3.7	11.9	2.7	28.4	3.1	16.7	4.9	21714
AVG:		3.8	12.2	2.4	28.3	2.8	16.8	4.8	21781
SD(N-1):		0.1	0.3	0.2	0.1	0.3	0.3	0.1	214
% RSD:		4	2	9	0	11	1	2	1
12408 GCR1	TS-E204	< 2.33	7.8	< 2.33	16.7	< 2.33	12.6	3.2	23056
12408 GCR2	TS-E204	< 2.33	7.8	< 2.33	16.5	< 2.33	12.3	3.3	23202
12408 GCR3	TS-E204	< 2.33	7.8	< 2.33	16.3	< 2.33	13.6	3.4	22508
AVG:			7.8		16.5		12.8	3.3	22922
SD(N-1):			0.0		0.2		0.7	0.1	366
% RSD:			1		1		5	2	2
12424 GCR1	TS-C339-10	< 2.33	< 2.33	< 0.85	5.9	< 0.85	< 0.85	< 0.85	18780
12424 GCR2	TS-C339-10	< 2.33	< 2.33	< 0.85	5.7	< 0.85	< 0.85	< 0.85	18276
12424 GCR3	TS-C339-10	< 2.33	< 2.33	< 0.85	5.9	< 0.85	< 0.85	< 0.85	19273
AVG:					5.8				18776
SD(N-1):					0.1				499
% RSD:					2				3
PC 050296 GCR1	Reference Material 6806-118	< 2.33	11.1	2.6	17.1	3.8	10.9	10.7	6496
PC 050296 GCR2	Reference Material 6806-118	< 2.33	11.5	2.8	18.1	4.1	11.3	11.2	6519
PC 050296 GCR3	Reference Material 6806-118	< 2.33	10.1	2.4	16.2	3.8	9.4	9.9	6415
REPLICATE AVG:			10.9	2.6	17.1	3.9	10.5	10.6	6477
SD(N-1):			0.7	0.2	1.0	0.2	1.0	0.6	54
% RSD:			7	8	6	4	9	6	1
PC 050796 GCR1	Reference Material 6806-118	< 2.33	8.4	< 2.33	14.4	2.9	< 0.85	6.9	5796
PC 050796 GCR2	Reference Material 6806-118	< 2.33	8.4	< 2.33	14.4	2.8	< 0.85	6.5	5677
PC 050796 GCR3	Reference Material 6806-118	< 2.33		< 2.33	14.2	2.8	< 0.85	7.0	5827
REPLICATE AVG:			8.4		14.3	2.8		6.8	5767
SD(N-1):			0.1		0.1	0.0		0.3	79
% RSD:			1		1	2		4	1

Table 2. Congener Specific PCB QC Data (ng/g)--Hudson River Samples (WU30096)

Sample Name	Field ID	189	208,195	207	194	205	206	209	Total cPCBs	
PC 051596 GCR1	Reference Material 6806-118	< 2.33	12.5	3.8	19.8	4.8	12.3	12.5	6362	
PC 051596 GCR2	Reference Material 6806-118	< 2.33	11.9	3.5	19.0	4.5	12.2	12.9	6499	
PC 051596 GCR3	Reference Material 6806-118	< 2.33	12.1	3.6	19.5	4.7	13.3	16.7	6584	
REPLICATE AVG:			12.2	3.6	19.4	4.7	12.6	14.0	6482	
SD(N-1):			0.3	0.2	0.4	0.1	0.6	2.3	112	
% RSD:			2	5	2	3	5	17	2	
PC Baseline	Reference Material 6806	1.9	8.9	3.2	15.7	4.0	6.4	10.0	5963	MS tPCB % Recovery
MS 050296 GCR1	Negative Control	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	313	
MS 050296 GCR2	Negative Control	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	307	
MS 050296 GCR3	Negative Control	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 0.85	< 0.85	300	
REPLICATE AVG:									306	AVG= 59
SD(N-1):									6	
% RSD:									2	
MS 050796 GCR1	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	424	
MS 050796 GCR2	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	409	
MS 050796 GCR3	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	391	
REPLICATE AVG:									408	AVG= 74
SD(N-1):									17	
% RSD:									4	
MS 051596 GCR1	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	372	
MS 051596 GCR2	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	360	
MS 051596 GCR3	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 2.33	< 0.85	< 2.33	< 0.85	357	
REPLICATE AVG:									363	AVG= 71
SD(N-1):									8	
% RSD:									2	
MB 050296	Negative Control	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	9	
MB 050796	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	46	
MB 051596	Negative Control 654C	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	2.4	< 0.85	33	
PB 050296 GCR1	Procedural Blank	0.00	0.00	0.00	0.01	0.00	0.00	0.07	4.82	
PB 050296 GCR2	Procedural Blank	0.00	0.00	0.00	0.01	0.00	0.00	0.07	4.60	
PB 050296 GCR3	Procedural Blank	0.00	0.00	0.00	0.01	0.00	0.00	0.09	4.75	
PB 050796 GCR1 (b)	Procedural Blank	0.01	0.00	0.00	0.01	0.00	0.05	0.09	47.96	
PB 050796 GCR2 (b)	Procedural Blank	0.01	0.00	0.00	0.01	0.00	0.04	0.08	45.50	
PB 050796 GCR3 (b)	Procedural Blank	0.01	0.00	0.00	0.01	0.00	0.05	0.07	44.18	
PB 051596 GCR1	Procedural Blank	0.00	0.01	0.00	0.01	0.00	0.00	0.11	11.50	
PB 051596 GCR2	Procedural Blank	0.00	0.01	0.00	0.01	0.00	0.00	0.11	10.41	
PB 051596 GCR3	Procedural Blank	0.00	0.01	0.00	0.01	0.00	0.00	0.11	12.44	
PB AVERAGE:		0.00	0.00	0.00	0.01	0.00	0.01	0.09		
SD(N-1):		0.00	0.01	0.00	0.00	0.00	0.02	0.02		
MDL = PB Avg + 3(PB SD)	(Method Detection Limit)	0.02	0.02	0.00	0.01	0.00	0.08	0.14	AVG MDL= 0.85	
MQL = PB Avg + 10(PB SD)	(Method Quantitation Limit)	0.05	0.05	0.00	0.01	0.00	0.23	0.26	AVG MQL= 2.33	

(a) A contaminate has biased this congeners concentration.
(b) This procedural blank had a higher background of PCBs than the other blanks (> MDL and MQL limits).

Table 3. Recovery Spike Data (ng and % Recovery) for Anne Secord Hudson River Samples (WU30096)

Sample Name	Field ID	Sample Matrix	Grams Extracted	% Lipid	Congener-030 (ng/g)	Congener-030 Recovery	Congener-204 (ng/g)	Congener-204 Recovery
12396	HUDBUG-2	Insect	9.44	3.6	53.6	97	23.0	78
12397	HUDBUG-3	Insect	10.00	5.6	62.3	112	24.6	84
12398	HUDBUG-4	Insect	10.00	4.0	57.5	104	25.0	85
12399	HUDWDE-1	Wood Duck Egg Composite	10.00	14.9	53.4	96	22.3	76
12400 A	HUDWDE-2	Wood Duck Egg Composite	10.00	15.0	54.4	98	22.8	78
12400 B	HUDWDE-2	Wood Duck Egg Composite	10.00	15.2	52.8	95	21.9	75
12400 C	HUDWDE-2	Wood Duck Egg Composite	10.00	14.8	52.5	95	21.6	74
12401	HUDWDA-3	Adult Wood Duck Hen	25.00	1.4	53.9	97	23.2	79
12402 A	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	55.4	100	24.7	84
12402 B	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	56.8	102	24.3	83
12402 C	HUDWDA-4	Two Wood Dk. Hen Composite	25.00	3.4	55.6	100	25.2	86
12403	HUDMLE-4	Mallard Egg Composite	10.00	13.7	51.5	93	21.3	73
12404	HUDMLA-3	Two Mallard Hen Composite	25.00	4.1	67.2	121	32.8	112
12405	TS-E100	Tree Swallow Egg Composite	10.00	8.9	54.3	98	21.5	73
12406	TS-C100	Tree Swallow Chick Composite	10.00	5.1	52.4	94	21.1	72
12407(a)	TS-A100	Tree Swallow Adult Female	10.00	8.3	61.8	111	28.8	98
12408(a)	TS-E204	Tree Swallow Egg Composite	2.51	7.2	53.9	97	24.3	83
12409	TS-C204-5	Tree Swallow Chick Composite	7.32	2.9	54.5	98	24.7	84
12410	TS-C204-10	Tree Swallow Chick Composite	10.00	7.1	50.3	91	20.8	71
12411	TS-C204-15	Tree Swallow Chick Composite	10.00	9.5	64.4	116	33.5	114
12412	TS-E227	Tree Swallow Egg Composite	4.14	7.7	53.8	97	25.3	86
12413	TS-C227-5	Tree Swallow Chick Composite	10.00	4.1	53.7	97	24.1	82
12414	TS-C227-10	Tree Swallow Chick Composite	10.00	7.6	57.1	103	31.6	108
12415	TS-C227-15	Tree Swallow Chick Composite	10.00	10.5	51.6	93	20.1	69
12416	TS-E313	Tree Swallow Egg Composite	3.48	5.7	66.8	120	33.7	115
12417	TS-C313-5	Tree Swallow Chick Composite	10.00	3.6	55.7	100	25.4	87
12418	TS-C313-15	Tree Swallow Chick Composite	10.00	7.6	47.0	85	18.7	64
12419	TS-E340	Tree Swallow Egg Composite	3.50	4.3	57.3	103	25.5	87
12420	TS-C340-15	Tree Swallow Chick Composite	10.00	8.7	54.4	98	28.9	99
12421	TS-E337	Tree Swallow Egg Composite	3.83	7.0	50.2	90	20.5	70
12422	TS-C337-15	Tree Swallow Chick Composite	10.00	9.5	66.4	120	28.0	96
12423	TS-C339-5	Tree Swallow Chick Composite	10.00	5.2	53.5	96	25.0	85
12424(a)	TS-C339-10	Tree Swallow Chick Composite	10.00	5.7	51.0	92	20.1	68
12425	TS-C339-15	Tree Swallow Chick Composite	10.00	6.2	62.9	113	26.8	91
12426	TS-S315	Tree Swallow (salvaged)	7.97	4.3	50.3	91	20.7	71
12427	TS-A322	Tree Swallow Adult Female	10.00	7.1	64.2	116	31.0	106
12428	TS-E411	Tree Swallow Egg Composite	4.11	7.5	53.2	96	21.2	72
12429	TS-C411-15	Tree Swallow Chick Composite	10.00	7.3	55.0	99	22.1	75
12430	TS-E421	Tree Swallow Egg Composite	4.52	8.0	47.0	85	17.9	61
12431	TS-C421-15	Tree Swallow Chick Composite	10.00	6.2	55.3	100	24.0	82
12432	TS-E426	Tree Swallow Egg Composite	3.15	8.3	54.1	97	24.0	82
12433	TS-C426-15	Tree Swallow Chick Composite	10.00	7.1	54.9	99	24.8	85
12434	TS-E500	Tree Swallow Egg Composite	10.00	6.8	52.9	95	23.2	79
12435	TS-C500	Tree Swallow Chick Composite	10.00	8.8	58.2	105	25.0	85
12436	HUDBUG-A	Insect Mouth Sample & Insect	0.17	-	34.2	102	4.1	70

Table 3. Recovery Spike Data (ng and % Recovery) for Anne Secord Hudson River Samples (WU30096)

Sample Name	Field ID	Sample Matrix	Grams Extracted	% Lipid	Congener-030 (ng/g)	Congener-030 Recovery	Congener-204 (ng/g)	Congener-204 Recovery
12437	HUDBUG-B	Insect Mouth Sample	2.08	3.9	60.6	109	26.3	90
12438	HUDBUG-C	Insect Mouth Sample	2.90	3.1	57.6	104	24.5	83
12439	HUDBUG-D	Insect Mouth Sample	0.51	-	36.4	108	4.3	73
12440	TS-EITH	Tree Swallow Egg Composite	6.07	7.1	67.6	99	21.9	75
12511 A	TS-CITH	Tree Swallow Chick Composite	10.00	7.2	59.0	106	24.8	84
12511 B	TS-CITH	Tree Swallow Chick Composite	10.00	7.5	56.5	102	23.4	80
12511 C	TS-CITH	Tree Swallow Chick Composite	10.00	7.9	56.6	102	23.8	81
PC 050296(a)	Reference Material 6806-118	Saginaw Bay Carp	10.00	14.0	51.7	93	48.3	82
PC 050796(a)	Reference Material 6806-118	Saginaw Bay Carp	10.00	13.3	43.2	78	36.2	62
PC 051596(a)	Reference Material 6806-118	Saginaw Bay Carp	10.00	13.5	61.5	111	56.5	96
MS 050296(a)	Negative Control 654C--Spike	Chicken Egg	10.00	10.4	52.8	95	43.3	74
MS 050796(a)	Negative Control 654C--Spike	Bluegill Tissue	10.00	3.9	58.0	105	50.7	86
MS 051596(a)	Negative Control 654C--Spike	Bluegill Tissue	10.00	3.2	59.8	108	51.7	88
MB 050296	Negative Control 654C--Blank	Chicken Egg	10.00	10.3	53.4	96	40.1	68
MB 050796	Negative Control 654C--Blank	Bluegill Tissue	10.00	3.4	53.4	96	45.4	77
MB 051596	Negative Control 654C--Blank	Bluegill Tissue	10.00	3.3	57.1	103	47.9	82
PB 050296 (a)	Procedural Blank	40g Na_2SO_4	10.00	0.0	50.6	91	39.1	67
PB 050796 (a)	Procedural Blank	40g Na_2SO_4	10.00	0.0	53.4	96	44.7	76
PB 051596 (a)	Procedural Blank	40g Na_2SO_4	10.00	0.0	62.6	113	52.4	89
MOCK 100% I-030 (a)	PCB congener 030	Amount spiked in ng			693.1			
MOCK 100% I-204 (a)	PCB congener 204	Amount spiked in ng					421.6	

PC = positive control; MS = Matrix Spike; MB = Matrix Blank; PB = Procedure Blank.

(a) GC Replicate Average

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NEW YORK STATE