
APPENDIX A

C_{free} Calculation Reports
(Year 2 and Year 3)

Certificate of Analysis
Concentrations of Freely-dissolved Polychlorinated Biphenyls (PCBs)
Measured via SPME Passive Samplers

Client: Lower Duwamish Waterway Group

Project: Enhanced Natural Recovery /
Activated Carbon Pilot Study

Final Report Issued: November 21, 2019

Client Project No: HE1508-01

Study Dates: May 9 to June 26, 2019

Introduction

This report presents the results for 34 SP3™ passive samplers that were exposed to surface sediment in Lower Duwamish Waterway, Seattle, Washington, USA. Twenty-four of the samplers were deployed *in situ* (12 were deployed in the top 1 cm and 12 were deployed in the top 10 cm of surface sediment). Six samplers were deployed in sediment cores (collected from Lower Duwamish Waterway, Seattle), and 1 sampler was exposed to laboratory water control blank in an *ex situ* laboratory study. Three samplers (trip blanks) were not exposed to sediment.

The *in situ* sediment-exposed samplers were deployed from May 9 to May 15, 2019, and were retrieved during June 17 to June 25, 2019, with individual sampler exposure durations averaging at 39 days. Samplers that were exposed *ex situ* to sediment cores within the laboratory mesocosms were deployed on April 26, 2019 and retrieved on June 22, 2019 with individual sampler exposure duration at 57 days. The trip blanks were collected on May 9, 2019.

Extracts for the samplers were shipped to Frontier Analytical Laboratory for measurement of polychlorinated biphenyl (PCB) congeners to calculate the freely dissolved concentrations (C_{free}) of PCBs in sediment porewater as shown in Table 1 and the Summary Table below. The data analysis steps are provided in Attachment A and the analytical reports are provided as an attachment to the Data Report (to which this Certificate of Analysis is attached).

Sample Summary

Customer Sample ID	Deployment	Sediment Deployment Depth (cm)	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date	Average Sampler Exposure Duration (days)	Analysis
LDW-Y2-SC-ENR+AC-CA/AC-CD-S010 ^[1]	<i>In situ</i>	0-10	5/13/2019	6/25/2019	41	PCB Congeners (1668C)
LDW-Y2-SC-ENR+AC-CB-S010	<i>In situ</i>	0-10	5/13/2019	6/25/2019	41	PCB Congeners (1668C)
LDW-Y2-SC-ENR+AC-CC-S010	<i>In situ</i>	0-10	5/13/2019	6/25/2019	41	PCB Congeners (1668C)
LDW-Y2-SC-ENR-CC-S010	<i>In situ</i>	0-10	5/13/2019	6/22/2019	38	PCB Congeners (1668C)
LDW-Y2-SC-ENR-CD-S010	<i>In situ</i>	0-10	4/26/2019	6/22/2019	38	PCB Congeners (1668C)
LDW-Y2-SC-ENR-CE-S010	<i>In situ</i>	0-10	4/26/2019	6/22/2019	38	PCB Congeners (1668C)
LDW-Y2-SU-ENR+AC-CA-S010	<i>Ex situ</i>	0-10	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-SU-ENR+AC-CB-S010	<i>Ex situ</i>	0-10	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-SU-ENR+AC-CC-S010	<i>Ex situ</i>	0-10	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-SU-ENR-CA-S010	<i>Ex situ</i>	0-10	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-SU-ENR-CB-S010	<i>Ex situ</i>	0-10	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-SU-ENR-CC-S010	<i>Ex situ</i>	0-10	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-SU-S010-LCB	<i>Ex situ</i>	Lab Control Water Blank	4/26/2019	6/22/2019	57	PCB Congeners (1668C)
LDW-Y2-IN-ENR+AC-CA-S010	<i>In situ</i>	0-10	5/9/2019	6/18/2019	39	PCB Congeners (1668C)
LDW-Y2-IN-ENR+AC-CB-S010	<i>In situ</i>	0-10	5/9/2019	6/18/2019	39	PCB Congeners (1668C)

Customer Sample ID	Deployment	Sediment Deployment Depth (cm)	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date	Average Sampler Exposure Duration (days)	Analysis
LDW-Y2-IN-ENR+AC-CC-S010	<i>In situ</i>	0-10	5/9/2019	6/17/2019	39	PCB Congeners (1668C)
LDW-Y2-IN-ENR-CA-S010	<i>In situ</i>	0-10	5/9/2019	6/19/2019	40	PCB Congeners (1668C)
LDW-Y2-IN-ENR-CB-S010	<i>In situ</i>	0-10	5/9/2019	6/19/2019	40	PCB Congeners (1668C)
LDW-Y2-IN-ENR-CE-S010	<i>In situ</i>	0-10	5/9/2019	6/19/2019	40	PCB Congeners (1668C)
LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI ^[2]	<i>In situ</i>	0-1	5/13/2019	6/25/2019	41	PCB Congeners (1668C)
LDW-Y2-SC-ENR+AC-CB-SSWI	<i>In situ</i>	0-1	5/13/2019	6/25/2019	41	PCB Congeners (1668C)
LDW-Y2-SC-ENR+AC-CC-SSWI	<i>In situ</i>	0-1	5/13/2019	6/25/2019	41	PCB Congeners (1668C)
LDW-Y2-SC-ENR-CC-SSWI	<i>In situ</i>	0-1	5/13/2019	6/22/2019	38	PCB Congeners (1668C)
LDW-Y2-SC-ENR-CD-SSWI	<i>In situ</i>	0-1	5/13/2019	6/22/2019	38	PCB Congeners (1668C)
LDW-Y2-SC-ENR-CE-SSWI	<i>In situ</i>	0-1	5/13/2019	6/22/2019	38	PCB Congeners (1668C)
LDW-Y2-IN-ENR+AC-CA-SSWI	<i>In situ</i>	0-1	5/9/2019	6/18/2019	39	PCB Congeners (1668C)
LDW-Y2-IN-ENR+AC-CB-SSWI	<i>In situ</i>	0-1	5/9/2019	6/18/2019	39	PCB Congeners (1668C)
LDW-Y2-IN-ENR+AC-CC-SSWI	<i>In situ</i>	0-1	5/9/2019	6/17/2019	39	PCB Congeners (1668C)
LDW-Y2-IN-ENR-CA-SSWI	<i>In situ</i>	0-1	5/9/2019	6/19/2019	40	PCB Congeners (1668C)
LDW-Y2-IN-ENR-CB-SSWI	<i>In situ</i>	0-1	5/9/2019	6/19/2019	40	PCB Congeners (1668C)
LDW-Y2-IN-ENR-CE-SSWI	<i>In situ</i>	0-1	5/9/2019	6/19/2019	40	PCB Congeners (1668C)

Customer Sample ID	Deployment	Sediment Deployment Depth (cm)	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date	Average Sampler Exposure Duration (days)	Analysis
LDW-Y2-SC-S010-TB	Trip Blank	-	5/9/2019	5/9/2019	0	PCB Congeners (1668C)
LDW-Y2-SU-S010-TB	Trip Blank	-	5/9/2019	5/9/2019	0	PCB Congeners (1668C)
LDW-Y2-IN-S010-TB	Trip Blank	-	5/9/2019	5/9/2019	0	PCB Congeners (1668C)

Notes

[1] Combination of 2 retrieved SPME fibers from LDW-Y2-SC-ENR+AC-CA-S010 and 2 fibers from LDW-Y2-SC-ENR+AC-CD-S010 composites. The values used for the earliest and latest sampler deployment/retrieval dates and the average exposure date are based on the averages of those values for the two composites

[2] Combination of 2 retrieved SPME fibers from LDW-Y2-SC-ENR+AC-CA-SSWI and 2 fibers from LDW-Y2-SC-ENR+AC-CD-SSWI composites. The values used for the earliest and latest sampler deployment/retrieval dates and the average exposure date are based on the averages of those values for the two composites

The SP3™ sampler design for *ex situ* deployment consisted of a 10-centimeter (cm) length of solid phase microextraction (SPME) fiber with 10-micrometer (µm) thick polydimethylsiloxane (PDMS) on a 2000-µm diameter silica core (0.631 microliter [µL] PDMS per cm SPME). Each SPME fiber was housed in a stainless-steel mesh envelope attached to a steel support bar. The same design was used for both *in situ* and *ex situ* SPME deployments in Baseline and Year 1 monitoring events.

The SP3™ sampler design for *in situ* deployment in Year 2 consisted of an additional horizontal SPME for deployment in sediment-water interface (0-1 cm layer) as shown in Figure 1. A vertical SPME was also attached to the design for deployment in the top 10 cm of the sediment surface (0-10 cm layer). Both horizontal and vertical SPMEs had a length of 10 cm.

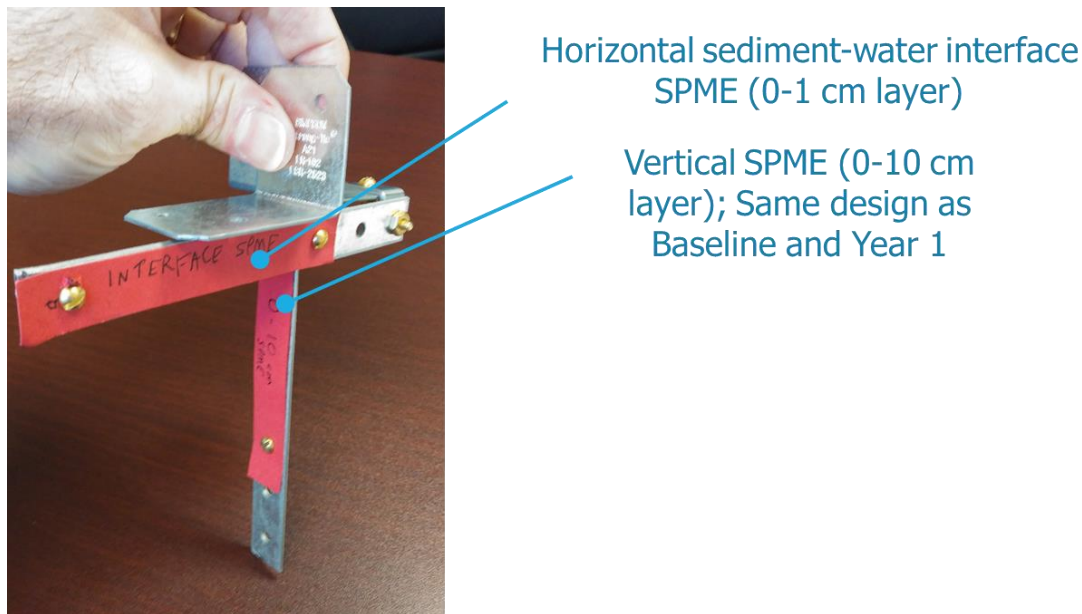


Figure 1- Platform design for SPME *in situ* deployment in sediment in year 2 (red paper represents locations of the steel mesh envelopes containing SPMEs).

SPMEs were spiked with the Performance Reference Compounds (PRCs) consisting of rare PCBs congeners assumed to: 1) not be present in the media in which the samplers were deployed, or 2) present at concentrations so low as to be inconsequential, not affect calculations involving PRCs, and insignificant compared to the concentration of other freely-dissolved PCBs in the media sampled. The PRCs used for this project were: PCB-14, PCB-36, PCB-78, PCB-104, PCB-121, PCB-142, PCB-155, PCB-184, PCB-192, and PCB-204¹. Samplers were produced by SiREM (<http://siremlab.com/>). It should be noted that each of the samplers was composed of up to 6 individual SPME fibers that were composited together for analysis, as described below.

¹ PCB shorthand nomenclature used in this report follows the Chemical Abstract Service (CAS) nomenclature used by USEPA (2003): United States Environmental Protection Agency (USEPA). 2003. Table of PCB Species by Congener Number.

The trip blanks were exposed to ambient field conditions for 5 minutes (each trip blank was a composite of 6 samplers for a total SPME fiber length of 60 cm).

The *in situ* sediment-exposed samples consisting of 2 to 6 SPME fibers, depending on recovery (i.e., 20 to 60 cm of SPME fiber total). These samples were exposed *in situ* to sediment in the Lower Duwamish Waterway, Seattle, USA for an average of 39 days (ranging from 38 to 41 days for all the individual SPME fibers). The *ex situ* sediment-exposed samples consisting of 6 SPME fibers (60 cm of SPME fiber total) were exposed *ex situ* to sediment collected from the Lower Duwamish Waterway, Seattle, Washington, USA for 57 days in the EcoAnalysts laboratory in Port Gamble, WA. Samplers in the *ex situ* study were maintained at ambient room temperature.

Processing of the samplers at an environmental laboratory included removal of the fiber from the stainless-steel mesh envelope and wiping any visible sediment from the fiber using a moist tissue, placing the fiber in a pre-weighed amber glass vial, weighing the vial to determine the mass of fiber present, and adding hexane to extract PCBs from the PDMS. Vials with hexane and fibers were shipped to Frontier Analytical Laboratory, whereupon hexane was removed from the vials and analyzed for PCB congeners via USEPA Method 1668C. The analytical laboratory reported the total mass of PCBs in each hexane extract (analytical report and electronic data deliverable are provided as an attachment to the Data Report (to which this Certificate of Analysis is attached).

During the retrieval of the SPME fibers deployed *in situ*, SCUBA divers, performing the retrievals, observed that the uppermost portions of some individual SPME fibers were not fully submerged in sediment such that a portion of the SPME fiber was exposed to the surface water overlying the sediment-surface water interface. Divers estimated the lengths of the SPME fibers that were exposed to the overlying water, and this was recorded by field staff in the field notes. The same approach as Year 1 was then used for processing the SPME fibers in the lab: For individual SPME fibers that were observed to be exposed to more than approximately 2.5 cm (or more) of overlying water during the *in situ* exposures (i.e., only the lower 7.5 cm of the fiber was found to be full inserted within the sediment at the time of retrieval), the portion of the fiber exposed to the overlying water (rounded up to the nearest cm) was removed and excluded prior to compositing the remainder (lower portion) of the fiber into the extraction vial. The amounts of fiber trimmed in this manner are noted for the samples in Attachment A, Table A1. As shown in Table A1, no portion of the analyzed fibers for this effort (2019 samplers) was trimmed before compositing. Thus, none of the analyzed samplers were exposed to more than 2.5 cm of overlying water during *in situ* exposure.

SPME processing for Scour plot (modifications of Baseline and Year 1 procedures):

The recovery of SPMEs at the scour plot for the Year 2 monitoring was less than expected. Due to the lost/unusable SPMEs, the compositing plan was changed from that proposed in the QAPP. The composition of the composite deviated from the QAPP in the subplots with lower recoveries, in order to increase the mass of the SPME samplers for analysis. The SPME composites that were analyzed for each of the scour subplots based on the recoverable SPMEs were as follows:

- ENR subplot: C, D, and E composites
- ENR+AC subplot: A/D (combination of A and D, see below), B, and C composites.

For each composite, there were both 0-10 cm (S010) and sediment-water interface (SWWI; 0-1 cm) SPME fibers. The S010 and SWWI SPME fibers that belonged to the same composite, were composted for analysis.

The recommended composites for analysis at the ENR subplot are the C, D, and E composites. These three were selected over the A and B composites because they had more 0-10 cm SPMEs available per composite. The length of the 0-10 cm SPME fibers available for ENR C, D, and E composites were 50, 60, and 60 cm, respectively. However, only 40 cm of 0-10 cm SPME fibers were available for each of the A and B composites.

At the ENR+AC subplot, there were several SPMEs that were lost or were unusable. The B and C, 0-10 cm composites at the ENR+AC subplot were comprised of four SPMEs for a total of 40-cm of fiber. The remaining three composites (A, D, and E) were comprised of either one or two SPMEs. The A and D composites were combined for analysis to provide for four locations within the composite and 40-cm of fiber in each of the 0-10 and 0-1 cm samples. The A and D SPME composites and the corresponding sediment grabs were combined to make a new composite (with A/D notation).

The number of SPME fibers included in three of the 0-1 cm SPME composites (composite C for ENR subplot and composites B and C for the ENR+AC subplot) were less than 3. In order to optimize the detection limits, a larger volume of hexane extract (twice as the hexane volume from other composites) was analyzed for PCBs by the lab for these three composites (LDW-Y2-SC-ENR-CC-SSWI, LDW-Y2-SC-ENR+AC-CB-SSWI, and LDW-Y2-SC-ENR+AC-CC-SSWI). For example, 2 μ L of the final hexane extract was injected into the Gas Chromatograph for each of the mentioned three composites. However, for the rest of the composites, only 1 μ L of the hexane extracts were injected per sample.

Results

Total PCB congeners C_{free} results are reported in Table 1 (attached).

Samples included in Frontier Analytical Laboratory reports 12510 (dated 08/07/2019), 12511 (dated 08/07/2019), 12512 (dated 08/09/2019), and 12513 (dated 08/09/2019) were received in good condition and at 1 degrees Celsius ($^{\circ}$ C) which is outside method recommended sample temperature range for storage (less than -10° C), but within the range for sample transport (less than 6° C). This is not expected to result in poor analytical quality since PCBs are not expected to degrade in hexane over the timescale of shipment (1 day).

The data from one of the trip blank samplers (LDW-Y2-IN-S010-TB) was rejected due to the following reasons:

1. Concentrations of PCB PRCs in LDW-Y2-IN-S010-TB were 20% or more lower than the other 2 trip blanks, indicating a potential analytical anomaly.
2. Approximately 70% of the concentrations of PRCs in the samplers exposed to the sediment were higher than concentrations of PRCs in LDW-Y2-IN-S010-TB.
3. The average coefficient of variation (CV) between the concentration of PRCs in all three trip blanks is ~17%. If excluding “LDW-Y2-IN-S010-TB”, the average CVs among the PRCs for the remaining 2 TB samples is approximately 5%, which is consistent with previously measured CV values for PRCs²

Therefore, the data from the other 2 trip blanks (LDW-Y2-SC-S010-TB and LDW-Y2-SU-S010-TB) were used to calculate the average concentration of the PRC in the PDMS at the beginning of the deployment (as described in Appendix A).

² Measured for baseline, Year 1 and Year 2 data (current project) and previous passive sampling projects in 2018 and 2019

TABLE 1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010		LDW-Y2-SC-ENR+AC-CB-S010		LDW-Y2-SC-ENR+AC-CC-S010		LDW-Y2-SC-ENR-CC-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-1	Mono		8.1	J	51		U	4.7		U	6.4
PCB-2	Mono			U	1.1		U	1.2		U	2		U	1.8
PCB-3	Mono			U	1.2		U	1.2		U	2.1		U	1.9
PCB-4	Di		77		23	84		20	120		27	220		20
PCB-5	Di			U	3.8		U	3.6		U	6.1		U	3.9
PCB-6	Di		34		14	32		11	52		15	79		12
PCB-7	Di		7.5	J	14	4.9	J	11		U	5.9	19		12
PCB-8	Di		180		14	150		11	230		15	410		12
PCB-9	Di		11	J	14	9.1	J	11		U	5.9	25		12
PCB-10	Di		8.2	J	23		U	7.2		U	12	20	J	20
PCB-11	Di			UB	9.5	0.38		6.6		U	4.1		UB	6.9
PCB-12	Di			U	2.8		U	2.5		U	3.9		U	2.5
PCB-13	Di			U	2.8		U	2.7		U	4.1		U	2.5
PCB-14	Di	PRC												
PCB-15	Di		36		9.5	32		6.6	25		8.5	75		6.9
PCB-16	Tri		150		9.6	190		6.7	120		8.6	250		7
PCB-17	Tri		180		9.6	240		6.7	170		8.6	370		7
PCB-18	Tri		450		9.6	550		6.7	420		8.6	860		7
PCB-19	Tri		67		12	56		9.1	70		13	120		10
PCB-20	Tri		170	C	7.8	260	C	5.5	160	C	6	400	C	5
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		85		7.8	130		5.5	81		6	190		5
PCB-23	Tri			U	0.87	1.3	J	5.5		U	1.3	1.9	J	5
PCB-24	Tri		23		9.6	27		6.7	20		8.6	46		7
PCB-25	Tri		29		7.8	39		5.5	27		6	62		5
PCB-26	Tri		53		7.8	74		5.5	46		6	110		5
PCB-27	Tri		20		9.6	21		6.7	21		8.6	35		7
PCB-28	Tri		230		7.8	340		5.5	230		6	510		5
PCB-29	Tri		3	J	7.8	4.3	J	5.5	2.5	J	6	6.4		5
PCB-30	Tri			U	0.8		U	0.64		U	1		U	0.89
PCB-31	Tri		220		7.8	340		5.5	200		6	570		5
PCB-32	Tri		120		9.6	150		6.7	140		8.6	260		7
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		1.8	J	7.8	2	J	5.5		U	1.4	2.9	J	5
PCB-35	Tri		3	J	6.5	4.2	J	4.7	2.7	J	4.2	4.8		3.7
PCB-36	Tri	PRC												
PCB-37	Tri		39		6.5	48		4.7	28		4.2	79		3.7
PCB-38	Tri			U	0.74	1.4	J	4.7		U	1	1.9	J	3.7
PCB-39	Tri			U	0.76		U	0.49		U	1		U	0.61
PCB-40	Tetra		38		6	39		4.5	24		3.6	51		3.2
PCB-41	Tetra		160	C	5.8	150	C	4.4	89	C	3.4	200	C	3

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010		LDW-Y2-SC-ENR-CE-S010		LDW-Y2-SU-ENR+AC-CA-S010		LDW-Y2-SU-ENR+AC-CB-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-1	Mono		15	J	33	23	J	32	20	J	32
PCB-2	Mono			U	0.75		U	0.92		U	1.3		U	1.8
PCB-3	Mono		1.7	J	8	2.7	J	9.1		U	1.5		U	1.9
PCB-4	Di		160		13	310		14	240		12	300		15
PCB-5	Di			U	2.6		U	3.4		U	2.9		U	2.8
PCB-6	Di		45		6.7	100		7.9	75		6	110		8.3
PCB-7	Di		10		6.7	23		7.9	17		6	14		8.3
PCB-8	Di		240		6.7	560		7.9	290		6	310		8.3
PCB-9	Di		15		6.7	33		7.9	20		6	23		8.3
PCB-10	Di		20		13	24		14	23		12	20		15
PCB-11	Di		3.5		4	0.62		5.1	11		3.4		UB	5.1
PCB-12	Di		3.1	J	4	5.5		5.1	3.3	J	3.4	4.9	J	5.1
PCB-13	Di		3.3	J	4	5.4		5.1	3.6		3.4	3.7	J	5.1
PCB-14	Di	PRC												
PCB-15	Di		50		4	95		5.1	45		3.4	39		5.1
PCB-16	Tri		170		4.1	270		5.2	320		3.4	240		5.2
PCB-17	Tri		190		4.1	370		5.2	520		3.4	420		5.2
PCB-18	Tri		460		4.1	950		5.2	1200		3.4	1000		5.2
PCB-19	Tri		88		5.7	170		6.9	130		5	150		7.2
PCB-20	Tri		180	C	3.2	280	C	4.1	490	C	2.7	260	C	3.9
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		89		3.2	140		4.1	240		2.7	130		3.9
PCB-23	Tri		0.66	J	3.2		U	0.53	1.6	J	2.7		U	1.2
PCB-24	Tri		28		4.1	52		5.2	45		3.4	44		5.2
PCB-25	Tri		32		3.2	48		4.1	79		2.7	65		3.9
PCB-26	Tri		54		3.2	86		4.1	160		2.7	120		3.9
PCB-27	Tri		22		4.1	38		5.2	47		3.4	38		5.2
PCB-28	Tri		250		3.2	390		4.1	640		2.7	370		3.9
PCB-29	Tri		2.5	J	3.2	4.2		4.1	8.2		2.7	3.6	J	3.9
PCB-30	Tri			U	0.37		U	0.47		U	0.7		U	0.53
PCB-31	Tri		280		3.2	430		4.1	770		2.7	440		3.9
PCB-32	Tri		130		4.1	270		5.2	340		3.4	310		5.2
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		1.5	J	3.2	2.4	J	4.1	5.6		2.7	5		3.9
PCB-35	Tri		2.5	J	2.6	3.8		3.3	4.2		2.4	2.5	J	3
PCB-36	Tri	PRC												
PCB-37	Tri		42		2.6	58		3.3	98		2.4	43		3
PCB-38	Tri		1.3	J	2.6	2	J	3.3	3.9		2.4	2.5	J	3
PCB-39	Tri			U	0.29		U	0.45		U	0.7		U	1
PCB-40	Tetra		38		2.5	48		3	140		2.4	78		2.7
PCB-41	Tetra		150	C	2.4	200	C	2.9	630	C	2.4	340	C	2.5

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-1	Mono		37		36	29	J	34	57		32	29	J	40
PCB-2	Mono			U	1.8		U	0.83	2.1	J	8.5		U	1.3
PCB-3	Mono			U	2	2.7	J	11	3.5	J	8.5	3.7	J	13
PCB-4	Di		890		16	380		16	760		13	460		19
PCB-5	Di			U	3.5		U	2.5		U	2.7		U	3.3
PCB-6	Di		200		8.3	130		9.2	440		7.3	140		11
PCB-7	Di		40		8.3	21		9.2	40		7.3	27		11
PCB-8	Di		670		8.3	580		9.2	920		7.3	610		11
PCB-9	Di		40		8.3	33		9.2	65		7.3	31		11
PCB-10	Di		57		16	25		16	62		13	27		19
PCB-11	Di		2.8		4.6	8.3		5.7	14		4.3	1		6.7
PCB-12	Di		3.6	J	4.6	7.7		5.7	14		4.3	7		6.7
PCB-13	Di		6		4.6	6		5.7	14		4.3	10		6.7
PCB-14	Di	PRC												
PCB-15	Di		36		4.6	95		5.7	100		4.3	110		6.7
PCB-16	Tri		660		4.7	370		5.7	670		4.4	470		6.8
PCB-17	Tri		980		4.7	550		5.7	1100		4.4	640		6.8
PCB-18	Tri		2600		4.7	1400		5.7	2700		4.4	1500		6.8
PCB-19	Tri		400		7	230		8	330		6.2	240		9.6
PCB-20	Tri		530	C	3.2	420	C	4.3	660	C	3.3	520	C	4.9
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		250		3.2	210		4.3	340		3.3	270		4.9
PCB-23	Tri		2.2	J	3.2	1.3	J	4.3	2.9	J	3.3	1.8	J	4.9
PCB-24	Tri		90		4.7	70		5.7	91		4.4	60		6.8
PCB-25	Tri		100		3.2	78		4.3	190		3.3	93		4.9
PCB-26	Tri		210		3.2	140		4.3	370		3.3	170		4.9
PCB-27	Tri		87		4.7	52		5.7	99		4.4	73		6.8
PCB-28	Tri		690		3.2	590		4.3	960		3.3	790		4.9
PCB-29	Tri		7.5		3.2	5.8		4.3	9		3.3	8.1		4.9
PCB-30	Tri			U	0.89		U	0.75		U	0.46		U	0.78
PCB-31	Tri		900		3.2	680		4.3	1200		3.3	770		4.9
PCB-32	Tri		640		4.7	430		5.7	720		4.4	460		6.8
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		8.5		3.2	4.5		4.3	15		3.3	6.5		4.9
PCB-35	Tri		3.9		2.2	5		3.2	6.7		2.5	7		3.6
PCB-36	Tri	PRC												
PCB-37	Tri		61		2.2	82		3.2	110		2.5	100		3.6
PCB-38	Tri		4.6		2.2	3.3		3.2	5.2		2.5	2.9	J	3.6
PCB-39	Tri			U	0.77		U	0.36		U	0.72		U	0.54
PCB-40	Tetra		120		1.9	94		2.9	170		2.2	100		3.2
PCB-41	Tetra		520	C	1.8	400	C	2.7	740	C	2.1	420	C	3

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB		LDW-Y2-IN-ENR+AC-CA-S010		LDW-Y2-IN-ENR+AC-CB-S010		LDW-Y2-IN-ENR+AC-CC-S010					
			[PCB Cfree] Result		[PCB Cfree] DL		[PCB Cfree] DL		[PCB Cfree] DL		[PCB Cfree] DL			
			(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier		
PCB-1	Mono			U	63		U	930		U	3.7		U	3.8
PCB-2	Mono			U	16		U	40		U	1		U	0.99
PCB-3	Mono			U	14		U	27		U	1.1		U	1.1
PCB-4	Di			U	70		U	430	17		14	13		13
PCB-5	Di			U	14		U	3.7		U	3.1		U	2.6
PCB-6	Di			U	13		U	3.6	7.3	J	7.8	5.9	J	7
PCB-7	Di			U	14		U	3.7		U	3		U	2.6
PCB-8	Di			U	15	6.6	J	7.1	17		7.8	13		7
PCB-9	Di			U	14		U	3.8		U	3.2		U	2.7
PCB-10	Di			U	27		U	8.1		U	6.3		U	5.6
PCB-11	Di		0.81		12	1.2		3.9		UB	4.8		UB	4.2
PCB-12	Di			U	8.8		U	2.2		U	2.1		U	1.7
PCB-13	Di			U	9		U	2.2		U	2.1		U	1.8
PCB-14	Di	PRC												
PCB-15	Di			U	6.6	2.6	J	3.9	4.3	J	4.8	3.2	J	4.2
PCB-16	Tri		4.3	J	12	18		3.9	11		4.9	6.6		4.3
PCB-17	Tri		7.6	J	12	34		3.9	18		4.9	12		4.3
PCB-18	Tri		12		12	66		3.9	41		4.9	29		4.3
PCB-19	Tri			U	6.9	4.8	J	6	8.4		6.7	6		6
PCB-20	Tri		1.5	C,J	8.6	5.8	C	2.7	13	C	3.7	11	C	3.3
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri			U	1.1	3.7		2.7	8		3.7	6.8		3.3
PCB-23	Tri			U	1.1		U	0.37		U	1		U	0.8
PCB-24	Tri			U	3.3	6.6		3.9	3	J	4.9	2.1	J	4.3
PCB-25	Tri			U	1.2	2.1	J	2.7	6.5		3.7	4.9		3.3
PCB-26	Tri			U	1.1	3.8		2.7	14		3.7	9.7		3.3
PCB-27	Tri			U	3.3	4.3		3.9	2.8	J	4.9	2	J	4.3
PCB-28	Tri		1.7	J	8.6	11		2.7	27		3.7	24		3.3
PCB-29	Tri			U	1.1		U	0.36		U	0.99		U	0.77
PCB-30	Tri			U	3.2		U	1.4		U	0.49		U	0.6
PCB-31	Tri		2.1	J	8.6	11		2.7	28		3.7	28		3.3
PCB-32	Tri		6.7	J	12	24		3.9	11		4.9	8.9		4.3
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri			U	1.1		U	0.37		U	1		U	0.79
PCB-35	Tri			U L	0.94		U	0.31		U	0.95		U	0.74
PCB-36	Tri	PRC												
PCB-37	Tri			U L	0.89	2		1.9	3.6		3	3.5		2.6
PCB-38	Tri			U L	0.87		U	0.28		U	0.88		U	0.69
PCB-39	Tri			U L	0.86		U	0.28		U	0.87		U	0.68
PCB-40	Tetra		2.4	J L	5.3	6.9		1.7	6.3		2.7	4.7		2.4
PCB-41	Tetra		5.5	C L	4.9	37	C	1.6	31	C	2.6	23	C	2.3

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-S010		LDW-Y2-IN-ENR-CB-S010		LDW-Y2-IN-ENR-CE-S010		LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-1	Mono			U	4	13	J	38		U	5.8
PCB-2	Mono			U	1.1		U	0.97		U	1.7		U	2.5
PCB-3	Mono			U	1.3	3.7	J	8.8		U	1.8		U	2.8
PCB-4	Di		29		14	43		15	21		18	170		34
PCB-5	Di			U	2.7		U	2.6		U	3.5		U	8.3
PCB-6	Di		9.8		7.5	30		7.2	8.4		9.3	66		18
PCB-7	Di			U	2.7		U	2.6		U	3.5		U	8.1
PCB-8	Di		19		7.5	34		7.2	16		9.3	260		18
PCB-9	Di			U	2.8		U	2.7		U	3.5		U	7.9
PCB-10	Di			U	5.9		U	6	16		18		U	16
PCB-11	Di			UB	4.1	0.32		4.3		UB	5.3		UB	9.8
PCB-12	Di			U	1.6		U	1.7		U	2.1		U	4.8
PCB-13	Di			U	1.6	4.3	J	4.3		U	2.2		U	5.1
PCB-14	Di	PRC												
PCB-15	Di		6		4.1	10		4.3	6.3		5.3	50		9.8
PCB-16	Tri		7.2		4.2	8.5		4.3	13		5.3	180		10
PCB-17	Tri		15		4.2	17		4.3	15		5.3	200		10
PCB-18	Tri		32		4.2	43		4.3	38		5.3	450		10
PCB-19	Tri		8		6.3	8.6		6.1	7.9		7.9	100		15
PCB-20	Tri		11	C	2.9	13	C	3.7	11	C	3.8	170	C	6.7
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		6.3		2.9	7.6		3.7	7.6		3.8	89		6.7
PCB-23	Tri			U	1.2		U	1.3		U	1.3		U	0.95
PCB-24	Tri		2.6	J	4.2	3.8	J	4.3	2	J	5.3	34		10
PCB-25	Tri		5		2.9	8.9		3.7	6.2		3.8	30		6.7
PCB-26	Tri		10		2.9	18		3.7	13		3.8	47		6.7
PCB-27	Tri		2.9	J	4.2	2.9	J	4.3	3.5	J	5.3	18		10
PCB-28	Tri		24		2.9	32		3.7	25		3.8	250		6.7
PCB-29	Tri			U	1.1		U	1.3		U	1.3	2.1	J	6.7
PCB-30	Tri			U	0.59		U	0.48		U	1.1		U	1.5
PCB-31	Tri		20		2.9	29		3.7	22		3.8	220		6.7
PCB-32	Tri		8.4		4.2	12		4.3	7.3		5.3	160		10
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri			U	1.2		U	1.3		U	1.3	1.3	J	6.7
PCB-35	Tri			U	0.96		U	1.5		U	1.1	2.8	J	4.5
PCB-36	Tri	PRC												
PCB-37	Tri		2.7		2	4.7		3.5	3.8		2.8	35		4.5
PCB-38	Tri			U	0.89		U	1.4		U	0.96		U	0.73
PCB-39	Tri			U	0.88		U	1.4		U	0.98		U	0.74
PCB-40	Tetra		4		1.7	6.6		3.6	6.1		2.4	29		3.8
PCB-41	Tetra		18	C	1.6	35	C	3.6	29	C	2.3	110	C	3.5

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI		LDW-Y2-SC-ENR+AC-CC-SSWI		LDW-Y2-SC-ENR-CC-SSWI		LDW-Y2-SC-ENR-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-1	Mono			U	13	18	J	66	39	J	110	35	J	40
PCB-2	Mono			U	3.4		U	2.9		U	3.5		U	1.3
PCB-3	Mono			U	3.7		U	3		U	3.8	3.7	J	12
PCB-4	Di		180		38	220		31	440		50	370		18
PCB-5	Di			U	4.3		U	6.5		U	11		U	4.8
PCB-6	Di		53		19	87		21	120		27	110		10
PCB-7	Di		10	J	19	13	J	21	34		27	21		10
PCB-8	Di		270		19	380		21	530		27	510		10
PCB-9	Di		14	J	19	28		21	34		27	29		10
PCB-10	Di		14	J	38	20	J	31	42	J	50	27		18
PCB-11	Di			UB	9.6		UB	16		U	6.9		UB	5.8
PCB-12	Di		3.4	J	9.6	6.6	J	16		U	6.7	6.9		5.8
PCB-13	Di		2.9	J	9.6	6.3	J	16		U	7	4.9	J	5.8
PCB-14	Di	PRC												
PCB-15	Di		40		9.6	88		16	68		15	83		5.8
PCB-16	Tri		160		9.8	270		16	210		15	210		5.9
PCB-17	Tri		180		9.8	350		16	290		15	290		5.9
PCB-18	Tri		450		9.8	850		16	710		15	680		5.9
PCB-19	Tri		90		16	130		19	150		22	160		8.6
PCB-20	Tri		140	C	6.2	400	C	14	240	C	10	250	C	4.1
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		72		6.2	200		14	120		10	130		4.1
PCB-23	Tri			U	1.8		U	2.8		U	1.5	0.91	J	4.1
PCB-24	Tri		22		9.8	52		16	39		15	42		5.9
PCB-25	Tri		23		6.2	66		14	44		10	45		4.1
PCB-26	Tri		38		6.2	110		14	70		10	76		4.1
PCB-27	Tri		20		9.8	29		16	32		15	34		5.9
PCB-28	Tri		190		6.2	530		14	360		10	400		4.1
PCB-29	Tri			U	1.9	5.2	J	14	3.5	J	10	3.5	J	4.1
PCB-30	Tri			U	1.2		U	2		U	1.7		U	0.67
PCB-31	Tri		170		6.2	570		14	330		10	340		4.1
PCB-32	Tri		120		9.8	270		16	230		15	240		5.9
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri			U	2.2	4.3	J	14	3.2	J	10	2.8	J	4.1
PCB-35	Tri			U	1.5		U L	3.3	2.8	J	7	3		2.9
PCB-36	Tri	PRC												
PCB-37	Tri		23		4	86	L	12	38		7	50		2.9
PCB-38	Tri			U	1.3		U L	2.9		U	1.2	1.2	J	2.9
PCB-39	Tri			U	1.4		U L	2.9		U	1.2	0.96	J	2.9
PCB-40	Tetra		18		3.3	75	L	12	31		6	38		2.5
PCB-41	Tetra		69	C	3	290	C L	12	120	C	5.6	140	C	2.4

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CE-SSWI		LDW-Y2-IN-ENR+AC-CA-SSWI		LDW-Y2-IN-ENR+AC-CB-SSWI		LDW-Y2-IN-ENR+AC-CC-SSWI					
			[PCB Cfree] Result (pg/L)	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	[PCB Cfree] DL (pg/L)				
			Qualifier	Qualifier	Qualifier	Qualifier	Qualifier	Qualifier	Qualifier	Qualifier				
PCB-1	Mono		51	43		U	6		U	6		U	5.1	
PCB-2	Mono			U	1.7		U	1.6		U	1.7		U	1.4
PCB-3	Mono		5.7	J	15		U	1.7		U	1.7		U	1.5
PCB-4	Di		550		21	22		13	25		13	23		13
PCB-5	Di			U	5.7		U	1.6		U	2.3		U	2.5
PCB-6	Di		170		13	6.9		6.6	8.4		7	7.8		6.6
PCB-7	Di		30		13		U	1.6		U	2.2		U	2.5
PCB-8	Di		770		13	20		6.6	22		7	24		6.6
PCB-9	Di		42		13		U	1.6		U	2.2		U	2.5
PCB-10	Di		41		21		U	3.3		U	4.3		U	5.1
PCB-11	Di			UB	7.9	3.4		3.7	1		4.3	2.2		3.8
PCB-12	Di		12		7.9		U	0.98		U	1.5		U	1.5
PCB-13	Di		9.4		7.9		U	0.98		U	1.5		U	1.6
PCB-14	Di	PRC												
PCB-15	Di		170		7.9	5.6		3.7	7.1		4.3	6.6		3.8
PCB-16	Tri		390		8	8.6		3.7	16		4.3	13		3.8
PCB-17	Tri		520		8	16		3.7	21		4.3	21		3.8
PCB-18	Tri		1300		8	39		3.7	50		4.3	50		3.8
PCB-19	Tri		280		11	6.9		5.6	8.3		6	9		5.6
PCB-20	Tri		460	C	6	11	C	2.7	14	C	3.4	17	C	2.8
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		240		6	6.9		2.7	8.4		3.4	9.5		2.8
PCB-23	Tri		1.3	J	6		U	0.89		U	1.4		U	1
PCB-24	Tri		78		8	2.8	J	3.7	3.2	J	4.3	3.3	J	3.8
PCB-25	Tri		79		6	4.5		2.7	6.7		3.4	6.1		2.8
PCB-26	Tri		140		6	9.4		2.7	14		3.4	11		2.8
PCB-27	Tri		70		8	2.5	J	3.7	3.3	J	4.3	2.8	J	3.8
PCB-28	Tri		690		6	21		2.7	28		3.4	28		2.8
PCB-29	Tri		6		6		U	0.88		U	1.4		U	1
PCB-30	Tri			U	0.99		U	0.35		U	0.51		U	0.4
PCB-31	Tri		620		6	24		2.7	30		3.4	30		2.8
PCB-32	Tri		440		8	9.7		3.7	8.6		4.3	13		3.8
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		4.4	J	6		U	0.89		U	1.4		U	1
PCB-35	Tri		6.4		4.5		U	0.75		U	1.3		U	0.9
PCB-36	Tri	PRC												
PCB-37	Tri		91		4.5	3.1		1.9	4.2		2.7	3.9		2.1
PCB-38	Tri		2.1	J	4.5		U	0.66		U	1.2		U	0.8
PCB-39	Tri		1.3	J	4.5		U	0.68		U	1.2		U	0.82
PCB-40	Tetra		61		3.9	4.1		1.7	5.9		2.5	5.1		1.8
PCB-41	Tetra		230	C	3.7	20	C	1.6	29	C	2.4	25	C	1.8

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-SSWI			LDW-Y2-IN-ENR-CB-SSWI			LDW-Y2-IN-ENR-CE-SSWI		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono			U	5.9		U	3.6	10	J	39
PCB-2	Mono			U	1.8		U	0.9		U	0.99
PCB-3	Mono			U	2		U	0.94		U	1.1
PCB-4	Di		31		13	28		12	36		16
PCB-5	Di			U	2.9		U	2.5		U	2.8
PCB-6	Di		14		6.8	10		6.4	11		8.4
PCB-7	Di			U	2.9		U	2.4		U	2.7
PCB-8	Di		24		6.8	23		6.4	26		8.4
PCB-9	Di			U	2.9		U	2.4		U	2.7
PCB-10	Di			U	5.7		U	5.1		U	5.7
PCB-11	Di		0.15		3.9	0.019		3.9		UB	4.6
PCB-12	Di			U	1.8		U	1.7		U	1.8
PCB-13	Di			U	1.8		U	1.8		U	1.9
PCB-14	Di	PRC									
PCB-15	Di		7.4		3.9	6.6		3.9	7.3		4.6
PCB-16	Tri		13		4	12		4	13		4.7
PCB-17	Tri		21		4	23		4	20		4.7
PCB-18	Tri		51		4	58		4	47		4.7
PCB-19	Tri		9.2		5.8	11		5.5	8.4		7.1
PCB-20	Tri		17	C	2.9	16	C	3.1	14	C	3.3
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		9.5		2.9	11		3.1	9.1		3.3
PCB-23	Tri			U	0.53		U	0.52		U	1.3
PCB-24	Tri		4.2		4	4.3		4	3.3	J	4.7
PCB-25	Tri		8.2		2.9	8		3.1	7.1		3.3
PCB-26	Tri		16		2.9	16		3.1	14		3.3
PCB-27	Tri		3	J	4	3.8	J	4	2.8	J	4.7
PCB-28	Tri		34		2.9	34		3.1	32		3.3
PCB-29	Tri			U	0.52		U	0.54		U	1.3
PCB-30	Tri			U	0.46		U	0.47		U	0.44
PCB-31	Tri		32		2.9	38		3.1	28		3.3
PCB-32	Tri		11		4	16		4	11		4.7
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	0.53		U	0.53		U	1.3
PCB-35	Tri			U	0.46		U	0.52		U	1.1
PCB-36	Tri	PRC									
PCB-37	Tri		4.5		2.2	4.9		2.6	3.8		2.4
PCB-38	Tri			U	0.41		U	0.48		U	0.99
PCB-39	Tri			U	0.42		U	0.48		U	0.99
PCB-40	Tetra		5.3		2	6.6		2.5	4.3		2
PCB-41	Tetra		27	C	1.9	33	C	2.4	25	C	1.9

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010		LDW-Y2-SC-ENR+AC-CB-S010		LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010				
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-42	Tetra		77	C	6	72	C	4.5	47	C	3.6
PCB-43	Tetra		170	C	6	150	C	4.5	100	C	3.6	220	C	3.2
PCB-44	Tetra		180		6	180		4.5	110		3.6	240		3.2
PCB-45	Tetra		59		6.9	64		4.9	42		4.8	91		4.1
PCB-46	Tetra		23		6.9	27		4.9	17		4.8	35		4.1
PCB-47	Tetra		59		6	50		4.5	36		3.6	72		3.2
PCB-48	Tetra		47	C	6	49	C	4.5	28	C	3.6	67	C	3.2
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		1.5	J	6.9	1.7	J	4.9	0.88	J	4.8	2.1	J	4.1
PCB-51	Tetra		17		6.9	18		4.9	12		4.8	25		4.1
PCB-52	Tetra		220	C	6	200	C	4.5	130	C	3.6	270	C	3.2
PCB-53	Tetra		53		6.9	55		4.9	36		4.8	81		4.1
PCB-54	Tetra		1.8	J	6.7	1.9	J	4.8	1.1	J	4.5	2.1	J	3.8
PCB-55	Tetra		5.6	L	5.3	4.8		4.2	2.8		2.8	6.1		2.6
PCB-56	Tetra		75	C L	5.3	67	C	4.2	41	C	2.8	98	C	2.6
PCB-57	Tetra		1.7	J L	5.3	1.2	J	4.2	0.64	J	2.8	1.4	J	2.6
PCB-58	Tetra			U L	0.6		U	0.6		U	0.31	0.65	J	2.6
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		140	C L	5.3	110	C	4.2	67	C	2.8	150	C	2.6
PCB-62	Tetra			U	0.7		U	0.59		U	0.36		U	0.43
PCB-63	Tetra		5.3	J L	5.3	4.6		4.2	2.9		2.8	6.3		2.6
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	0.74		U	0.64		U	0.4		U	0.46
PCB-66	Tetra		120	C L	5.3	98	C	4.2	59	C	2.8	130	C	2.6
PCB-67	Tetra		5.7	L	5.3	4.7		4.2	3		2.8	6.5		2.6
PCB-68	Tetra		2.1	J L	5.3	2.5	J	4.2	0.91	J	2.8	1.8	J	2.6
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		3.3	J	6	2.5	J	4.5	2	J	3.6	5	J	3.2
PCB-74	Tetra		61	L	5.3	52		4.2	31		2.8	69		2.6
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		6.2	L	4.7	5.9	L	4	2.9		2.2	6.6		2
PCB-78	Tetra	PRC												
PCB-79	Tetra		1.7	J L	4.7	1.5	J L	4	0.86	J	2.2	1.2	J	2
PCB-80	Tetra			U L	0.49		U L	0.49		U	0.2		U	0.24
PCB-81	Tetra		4.3	J L	4.7	4.2	L	4	2.3		2.2	3.3		2
PCB-82	Penta		12	L	4.2	8.3	L	3.9	3.8		1.7	9		1.6
PCB-83	Penta		5	C L	4.2	4.1	C L	3.9	1.9	C	1.7	3.6	C	1.6
PCB-84	Penta		45	C L	4.4	43	C L	3.9	22	C	1.9	37	C	1.8
PCB-85	Penta		14	C L	4.2	11	C L	3.9	5.1	C	1.7	10	C	1.6
PCB-86	Penta		1.9	J L	4.2		U L	1.1	0.6	J	1.7	1.1	J	1.6

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010		LDW-Y2-SC-ENR-CE-S010		LDW-Y2-SU-ENR+AC-CA-S010		LDW-Y2-SU-ENR+AC-CB-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-42	Tetra		76	C	2.5	98	C	3	280	C	2.4
PCB-43	Tetra		170	C	2.5	220	C	3	630	C	2.4	440	C	2.7
PCB-44	Tetra		180		2.5	240		3	740		2.4	450		2.7
PCB-45	Tetra		61		2.8	86		3.5	190		2.5	120		3.2
PCB-46	Tetra		25		2.8	33		3.5	82		2.5	50		3.2
PCB-47	Tetra		58		2.5	73		3	200		2.4	140		2.7
PCB-48	Tetra		46	C	2.5	63	C	3	190	C	2.4	100	C	2.7
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		1.2	J	2.8	1.9	J	3.5	3.4		2.5	2.9		3.2
PCB-51	Tetra		17		2.8	24		3.5	53		2.5	35		3.2
PCB-52	Tetra		210	C	2.5	280	C	3	840	C	2.4	630	C	2.7
PCB-53	Tetra		57		2.8	79		3.5	170		2.5	120		3.2
PCB-54	Tetra		1.6	J	2.7	2.4	J	3.4	2.9		2.5	2.4	J	3.1
PCB-55	Tetra		5.9		2.2	6.8		2.6	16		2.3	6.6		2.2
PCB-56	Tetra		76	C	2.2	86	C	2.6	280	C	2.3	110	C	2.2
PCB-57	Tetra		1.1	J	2.2	1.4	J	2.6	3.6		2.3	2.6		2.2
PCB-58	Tetra		0.67	J	2.2	0.76	J	2.6	2.5		2.3	1.5	J	2.2
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		130	C	2.2	160	C	2.6	570	C	2.3	280	C	2.2
PCB-62	Tetra			U	0.28		U	0.55		U	0.69		U	0.7
PCB-63	Tetra		5.1		2.2	6.2		2.6	24		2.3	12		2.2
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	0.3		U	0.58		U	0.69		U	0.71
PCB-66	Tetra		110	C	2.2	150	C	2.6	430	C	2.3	210	C	2.2
PCB-67	Tetra		5.4		2.2	6.9		2.6	22		2.3	11		2.2
PCB-68	Tetra		1.3	J	2.2	2.1	J	2.6	6.3		2.3	4.3		2.2
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		3.3		2.5	3.8		3		U	0.64		U	0.65
PCB-74	Tetra		60		2.2	74		2.6	250		2.3	120		2.2
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		6.4		2	7.8	L	2.3	25	L	2.4	8.3		1.8
PCB-78	Tetra	PRC												
PCB-79	Tetra		1.6	J	2	1.6	J L	2.3	3.4	L	2.4	2.4		1.8
PCB-80	Tetra			U	0.21		U L	0.37		U L	0.56		U	0.4
PCB-81	Tetra		2.9		2	5	L	2.3	9.6	L	2.4	4.4		1.8
PCB-82	Penta		13	L	1.9	13	L	2.1	50	L	2.4	24	L	1.5
PCB-83	Penta		4.7	C L	1.9	5.2	C L	2.1	21	C L	2.4	11	C L	1.5
PCB-84	Penta		47	C L	2	54	C L	2.2	190	C L	2.4	120	C	1.7
PCB-85	Penta		15	C L	1.9	17	C L	2.1	55	C L	2.4	27	C L	1.5
PCB-86	Penta		1.2	J L	1.9	1.9	J L	2.1		U L	0.51		U L	0.49

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010		LDW-Y2-SU-ENR-CA-S010		LDW-Y2-SU-ENR-CB-S010		LDW-Y2-SU-ENR-CC-S010			
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	Qualifier	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	Qualifier	[PCB Cfree] Result (pg/L)	Qualifier
PCB-42	Tetra		250	C	1.9	C	2.9	C	2.2	200	C	3.2
PCB-43	Tetra		680	C	1.9	C	2.9	C	2.2	480	C	3.2
PCB-44	Tetra		780		1.9		2.9		2.2	550		3.2
PCB-45	Tetra		220		2.5		3.6		2.7	160		4
PCB-46	Tetra		88		2.5		3.6		2.7	65		4
PCB-47	Tetra		210		1.9		2.9		2.2	160		3.2
PCB-48	Tetra		150	C	1.9	C	2.9	C	2.2	120	C	3.2
PCB-49	Tetra			C043		C043		C043			C043	
PCB-50	Tetra		5.5		2.5		3.6		2.7	4.2		4
PCB-51	Tetra		59		2.5		3.6		2.7	45		4
PCB-52	Tetra		1200	C	1.9	C	2.9	C	2.2	650	C	3.2
PCB-53	Tetra		210		2.5		3.6		2.7	150		4
PCB-54	Tetra		4.3		2.3	J	3.4		2.6	3.9		3.8
PCB-55	Tetra		9.9		1.4		2.4		1.9	8.1		2.5
PCB-56	Tetra		170	C	1.4	C	2.4	C	1.9	160	C	2.5
PCB-57	Tetra		3		1.4		2.4		1.9	2.8		2.5
PCB-58	Tetra		1.4	J	1.4	J	2.4		1.9	1.4	J	2.5
PCB-59	Tetra			C042		C042		C042			C042	
PCB-60	Tetra			C056		C056		C056			C056	
PCB-61	Tetra		420	C	1.4	C	2.4	C	1.9	340	C	2.5
PCB-62	Tetra			U	0.77	U	0.87	U	0.71		U	1
PCB-63	Tetra		16		1.4		2.4		1.9	14		2.5
PCB-64	Tetra			C041		C041		C041			C041	
PCB-65	Tetra			U	0.78	U	0.87	U	0.72		U	0.94
PCB-66	Tetra		280	C	1.4	C	2.4	C	1.9	260	C	2.5
PCB-67	Tetra		13		1.4		2.4		1.9	13		2.5
PCB-68	Tetra		4.5		1.4		2.4		1.9	5.1		2.5
PCB-69	Tetra			C052		C052		C052			C052	
PCB-70	Tetra			C061		C061		C061			C061	
PCB-71	Tetra			C041		C041		C041			C041	
PCB-72	Tetra			C041		C041		C041			C041	
PCB-73	Tetra			U	0.72	U	0.81	U	0.66		U	0.9
PCB-74	Tetra		160		1.4		2.4		1.9	150		2.5
PCB-75	Tetra			C048		C048		C048			C048	
PCB-76	Tetra			C066		C066		C066			C066	
PCB-77	Tetra		11		1.1		1.9		1.6	13		2
PCB-78	Tetra	PRC										
PCB-79	Tetra		3.8		1.1		1.9		1.6	3.1		2
PCB-80	Tetra			U	0.37	U	0.48	U	0.41		U	0.52
PCB-81	Tetra		6.7		1.1		1.9		1.6	5.2		2
PCB-82	Penta		36		0.85	L	1.6		1.3	24	L	1.6
PCB-83	Penta		16	C	0.85	C L	1.6	C	1.3	10	C L	1.6
PCB-84	Penta		180	C	0.94	C L	1.7	C	1.4	110	C L	1.8
PCB-85	Penta		40	C	0.85	C L	1.6	C	1.3	29	C L	1.6
PCB-86	Penta		1.6		0.85	L	1.6	U	0.4		U L	0.52

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB		LDW-Y2-IN-ENR+AC-CA-S010		LDW-Y2-IN-ENR+AC-CB-S010		LDW-Y2-IN-ENR+AC-CC-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-42	Tetra		3.1	C,J L	5.3	16	C	1.7	15	C	2.7	10	C	2.4
PCB-43	Tetra		5.2	C L	5.3	55	C	1.7	53	C	2.7	36	C	2.4
PCB-44	Tetra		9.6	L	5.3	50		1.7	48		2.7	34		2.4
PCB-45	Tetra		2.4	J L	6.8	7.4		2.1	7.6		3.2	6.9		2.8
PCB-46	Tetra			U L	0.93	2.7		2.1	3.1	J	3.2	2.7	J	2.8
PCB-47	Tetra		16	L	5.3	19		1.7	16		2.7	12		2.4
PCB-48	Tetra		2.8	C,J L	5.3	9.9	C	1.7	7.9	C	2.7	5.7	C	2.4
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		1.1	J L	6.8	0.84	J	2.1	0.85	J	3.2	0.41	J	2.8
PCB-51	Tetra		3.4	J L	6.8	2.5		2.1	2.6	J	3.2	2.2	J	2.8
PCB-52	Tetra		12	C L	5.3	92	C	1.7	100	C	2.7	63	C	2.4
PCB-53	Tetra		1.8	J L	6.8	8.7		2.1	11		3.2	8		2.8
PCB-54	Tetra			U L	0.55		U	0.24		U	0.39		U	0.38
PCB-55	Tetra		21	L	4.1	7.5		1.3	0.54		2.3	0.77		2.1
PCB-56	Tetra			UC L	0.59	3.2	C	1.3	11	C	2.3	7.7	C	2.1
PCB-57	Tetra			U L	0.4	0.62	J	1.3		U	0.34	0.6	J	2.1
PCB-58	Tetra			U L	0.4	0.33	J	1.3		U	0.34		U	0.34
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		4.4	C L	4.1	40	C	1.3	28	C	2.3	19	C	2.1
PCB-62	Tetra			U L	0.49		U	0.21		U	0.37		U	0.37
PCB-63	Tetra			U L	0.4	1.6		1.3	1.4	J	2.3	0.97	J	2.1
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U L	0.54		U	0.23		U	0.41		U	0.41
PCB-66	Tetra		3.1	C,J L	4.1	35	C	1.3	23	C	2.3	18	C	2.1
PCB-67	Tetra			U L	0.41	1.5		1.3	1.2	J	2.3	0.84	J	2.1
PCB-68	Tetra		5	L	4.1	1.8		1.3	0.86	J	2.3	0.57	J	2.1
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		5.1	L	5.3	2		1.7		U	0.34	0.7	J	2.4
PCB-74	Tetra		2.3	J L	4.1	16		1.3	11		2.3	7.9		2.1
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra			U L	0.55	0.73	J	1	1.5	J	2	1.3	J	1.9
PCB-78	Tetra	PRC												
PCB-79	Tetra			U L	0.49	0.33	J	1	1.1	J	2	0.77	J	1.9
PCB-80	Tetra		2.5	L	3.1		U	0.12		U	0.25	0.22	J	1.9
PCB-81	Tetra			U L	0.46	0.67	J	1	1.7	J	2	2.5		1.9
PCB-82	Penta			U L	0.25	1.7		0.81	6.4	L	1.7	4.3	L	1.6
PCB-83	Penta			UC L	0.17	0.87	C	0.81	3.1	C L	1.7	2.4	C L	1.6
PCB-84	Penta			UB C,J L	2.7	8.3	C	0.89	31	C	1.8	20	C	1.7
PCB-85	Penta			UC L	0.17	2.8	C	0.81	8.9	C L	1.7	5.9	C L	1.6
PCB-86	Penta		0.79	J L	2.4		U	0.17		U L	0.67		U L	1.1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-S010		LDW-Y2-IN-ENR-CB-S010		LDW-Y2-IN-ENR-CE-S010		LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-42	Tetra		9.1	C	1.7	17	C	3.6	12	C	2.4	57	C	3.8
PCB-43	Tetra		33	C	1.7	60	C	3.6	49	C	2.4	120	C	3.8
PCB-44	Tetra		28		1.7	53		3.6	51		2.4	130		3.8
PCB-45	Tetra		5.8		2.3	8.3		3.6	6.9		3.1	48		5.1
PCB-46	Tetra		2.1	J	2.3	2.8	J	3.6	3.3		3.1	20		5.1
PCB-47	Tetra		10		1.7	19		3.6	13		2.4	44		3.8
PCB-48	Tetra		4.7	C	1.7	8.9	C	3.6	6.9	C	2.4	32	C	3.8
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		0.58	J	2.3	0.67	J	3.6		U	0.89	1	J	5.1
PCB-51	Tetra		1.7	J	2.3	2.1	J	3.6	1.9	J	3.1	14		5.1
PCB-52	Tetra		58	C	1.7	110	C	3.6	110	C	2.4	140	C	3.8
PCB-53	Tetra		7.6		2.3	11		3.6	9.6		3.1	45		5.1
PCB-54	Tetra			U	0.28		U	0.37		U	0.64	1.3	J	4.7
PCB-55	Tetra		1.2		1.3	2.6		3.7	2.2		1.9	2.6		2.8
PCB-56	Tetra		5.1	C	1.3	11	C	3.7	9.8	C	1.9	45	C	2.8
PCB-57	Tetra		0.41	J	1.3	0.97	J	3.7		U	0.51	0.79	J	2.8
PCB-58	Tetra			U	0.21	0.8	J	3.7		U	0.47		U	0.34
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		15	C	1.3	35	C	3.7	30	C	1.9	79	C	2.8
PCB-62	Tetra			U	0.25		U	0.41		U	0.61		U	0.45
PCB-63	Tetra		0.67	J	1.3	1.8	J	3.7	1.3	J	1.9	2.7	J	2.8
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	0.28		U	0.45		U	0.65		U	0.46
PCB-66	Tetra		14	C	1.3	33	C	3.7	25	C	1.9	69	C	2.8
PCB-67	Tetra		0.66	J	1.3	1.4	J	3.7	1.3	J	1.9	3.3		2.8
PCB-68	Tetra		0.49	J	1.3	0.76	J	3.7	0.81	J	1.9	0.88	J	2.8
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		0.82	J	1.7	2.2		3.6		U	0.57	2.7		3.8
PCB-74	Tetra		6		1.3	14		3.7	12		1.9	36		2.8
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		0.76	J	1	2.2	J L	4	1.4	J	1.6	4		2
PCB-78	Tetra	PRC												
PCB-79	Tetra		0.48	J	1	1.4	J L	4	0.75	J	1.6	0.69	J	2
PCB-80	Tetra			U	0.14		U L	0.41		U	0.35		U	0.22
PCB-81	Tetra		1.2		1	5	L	4	2.5		1.6	1.4	J	2
PCB-82	Penta		2.3		0.82	10	L	4.3	5.1		1.3	3.4		1.5
PCB-83	Penta		1.4	C	0.82	6.3	C L	4.3	2.8	C	1.3	1.7	C	1.5
PCB-84	Penta		13	C	0.91	51	C L	4.2	31	C	1.4	17	C	1.7
PCB-85	Penta		3.7	C	0.82	15	C L	4.3	6.9	C	1.3	4.2	C	1.5
PCB-86	Penta			U	0.37		U L	1.4		U	0.47		U	0.4

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI		LDW-Y2-SC-ENR+AC-CC-SSWI		LDW-Y2-SC-ENR-CC-SSWI		LDW-Y2-SC-ENR-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-42	Tetra		34	C	3.3	140	C L	12	61	C	6
PCB-43	Tetra		79	C	3.3	300	C L	12	140	C	6	150	C	2.5
PCB-44	Tetra		88		3.3	330	L	12	150		6	170		2.5
PCB-45	Tetra		36		4.6	110		13	58		7.9	67		3.3
PCB-46	Tetra		15		4.6	45		13	23		7.9	27		3.3
PCB-47	Tetra		26		3.3	100	L	12	48		6	51		2.5
PCB-48	Tetra		23	C	3.3	88	C L	12	41	C	6	43	C	2.5
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		1.1	J	4.6	2.7	J	13	1.4	J	7.9	1.5	J	3.3
PCB-51	Tetra		9		4.6	29		13	17		7.9	20		3.3
PCB-52	Tetra		97	C	3.3	380	C L	12	180	C	6	190	C	2.5
PCB-53	Tetra		32		4.6	97		13	55		7.9	63		3.3
PCB-54	Tetra		1	J	4.3	3.4	J L	12	1.6	J	7.4	1.7	J	3.1
PCB-55	Tetra		1.1		2.3	8.6	L	11	3.2		4.6	3.9		2
PCB-56	Tetra		24	C	2.3	120	C L	11	52	C	4.6	59	C	2
PCB-57	Tetra			U	0.42	3.1	J L	11		U	0.77	0.88	J	2
PCB-58	Tetra			U	0.4		U L	1.9		U	0.73		U	0.47
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		48	C	2.3	230	C L	11	83	C	4.6	100	C	2
PCB-62	Tetra			U	0.54		U L	1.9		U	0.93		U	0.59
PCB-63	Tetra		2	J	2.3	10	J L	11	3.3	J	4.6	3.9		2
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	0.56		U L	2		U	0.97		U	0.61
PCB-66	Tetra		38	C	2.3	200	C L	11	73	C	4.6	89	C	2
PCB-67	Tetra		1.9	J	2.3	12	L	11	3.3	J	4.6	4.2		2
PCB-68	Tetra		0.81	J	2.3	3.2	J L	11		U	0.69	1.5		2
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		1.6	J	3.3	6.8	J L	12	2.8	J	6	2.9		2.5
PCB-74	Tetra		20		2.3	110	L	11	37		4.6	45		2
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		1.8		1.7	14	L	10	4		3.5	4.3		1.5
PCB-78	Tetra	PRC												
PCB-79	Tetra		0.34	J	1.7	2	J L	10	0.81	J	3.5	0.87	J	1.5
PCB-80	Tetra			U	0.25		U L	1.5		U	0.49		U	0.32
PCB-81	Tetra		0.85	J	1.7	8.5	J L	10	2.3	J	3.5	2.1		1.5
PCB-82	Penta		1.7		1.2	17	L	9.9	4.1		2.6	5.3		1.2
PCB-83	Penta		0.73	C,J	1.2	7.2	C,J L	9.9	2.1	C,J	2.6	2.4	C	1.2
PCB-84	Penta		8	C	1.4	72	C L	10	25	C	3	27	C	1.3
PCB-85	Penta		2.1	C	1.2	22	C L	9.9	5.4	C	2.6	6.8	C	1.2
PCB-86	Penta			U	0.28	4.3	J L	9.9		U	0.7	0.7	J	1.2

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CE-SSWI				LDW-Y2-IN-ENR+AC-CA-SSWI				LDW-Y2-IN-ENR+AC-CB-SSWI				LDW-Y2-IN-ENR+AC-CC-SSWI			
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	
			PCB-42	Tetra		110	C	3.9	9.2	C	1.7	13	C	2.5	12	C	1.8	
PCB-43	Tetra		240	C	3.9	33	C	1.7	49	C	2.5	41	C	1.8				
PCB-44	Tetra		270		3.9	29		1.7	43		2.5	38		1.8				
PCB-45	Tetra		110		4.9	5.6		2.1	7.5		2.9	6.9		2.3				
PCB-46	Tetra		48		4.9	2.2		2.1	2.5	J	2.9	2.9		2.3				
PCB-47	Tetra		80		3.9	10		1.7	14		2.5	13		1.8				
PCB-48	Tetra		72	C	3.9	5.7	C	1.7	7.6	C	2.5	6.9	C	1.8				
PCB-49	Tetra			C043			C043			C043			C043					
PCB-50	Tetra		2.4	J	4.9	0.37	J	2.1	0.48	J	2.9	0.35	J	2.3				
PCB-51	Tetra		32		4.9	1.7	J	2.1	2.3	J	2.9	2.5		2.3				
PCB-52	Tetra		300	C	3.9	57	C	1.7	84	C	2.5	70	C	1.8				
PCB-53	Tetra		100		4.9	7		2.1	9.3		2.9	8.3		2.3				
PCB-54	Tetra		3	J	4.6		U	0.18		U	0.3		U	0.25				
PCB-55	Tetra		6.1		3.2	1.4		1.4	2.4		2.2	1.4		1.5				
PCB-56	Tetra		100	C	3.2	7.4	C	1.4	11	C	2.2	10	C	1.5				
PCB-57	Tetra		1.6	J	3.2	0.37	J	1.4	0.49	J	2.2		U	0.21				
PCB-58	Tetra			U	0.53		U	0.14	0.35	J	2.2		U	0.2				
PCB-59	Tetra			C042			C042			C042			C042					
PCB-60	Tetra			C056			C056			C056			C056					
PCB-61	Tetra		170	C	3.2	21	C	1.4	33	C	2.2	26	C	1.5				
PCB-62	Tetra			U	0.64		U	0.18		U	0.31		U	0.25				
PCB-63	Tetra		6.4		3.2	0.8	J	1.4	1.3	J	2.2	1.1	J	1.5				
PCB-64	Tetra			C041			C041			C041			C041					
PCB-65	Tetra			U	0.66		U	0.19		U	0.33		U	0.27				
PCB-66	Tetra		150	C	3.2	17	C	1.4	27	C	2.2	21	C	1.5				
PCB-67	Tetra		0.83	J	3.2	0.96	J	1.4	1.1	J	2.2	1	J	1.5				
PCB-68	Tetra		2.3		3.2	0.56	J	1.4	0.69	J	2.2	0.58	J	1.5				
PCB-69	Tetra			C052			C052			C052			C052					
PCB-70	Tetra			C061			C061			C061			C061					
PCB-71	Tetra			C041			C041			C041			C041					
PCB-72	Tetra			C041			C041			C041			C041					
PCB-73	Tetra		4.9		3.9	0.73	J	1.7	1.2		2.5	1.3		1.8				
PCB-74	Tetra		76		3.2	8.6		1.4	12		2.2	10		1.5				
PCB-75	Tetra			C048			C048			C048			C048					
PCB-76	Tetra			C066			C066			C066			C066					
PCB-77	Tetra		9.1	L	2.6	1.2		1.1	2		1.9	1.4		1.3				
PCB-78	Tetra	PRC																
PCB-79	Tetra		1.3	J L	2.6	0.58	J	1.1	0.69	J	1.9	0.62	J	1.3				
PCB-80	Tetra			U L	0.38		U	0.1		U	0.21		U	0.15				
PCB-81	Tetra		4.3	L	2.6	1.7		1.1	1.4	J	1.9	1.6		1.3				
PCB-82	Penta		8.9	L	2.1	2.9		0.93	4.6	L	1.7	3.2		1.1				
PCB-83	Penta		4	C L	2.1	1.5	C	0.93	2.4	C L	1.7	2	C	1.1				
PCB-84	Penta		46	C L	2.3	16	C	1	23	C L	1.8	19	C	1.1				
PCB-85	Penta		12	C L	2.1	4.1	C	0.93	6.6	C L	1.7	5	C	1.1				
PCB-86	Penta		1.1	J L	2.1		U	0.26		U L	0.42		U	0.29				

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-SSWI		LDW-Y2-IN-ENR-CB-SSWI		LDW-Y2-IN-ENR-CE-SSWI				
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-42	Tetra		13	C	2	17	C	2.5	11	C	2
PCB-43	Tetra		48	C	2	58	C	2.5	42	C	2
PCB-44	Tetra		39		2	49		2.5	40		2
PCB-45	Tetra		7.7		2.4	8.4		2.8	5.9		2.6
PCB-46	Tetra		2.8		2.4	3.5		2.8	2.4	J	2.6
PCB-47	Tetra		14		2	19		2.5	12		2
PCB-48	Tetra		7.9	C	2	9.7	C	2.5	6.6	C	2
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		0.7	J	2.4	0.4	J	2.8	0.47	J	2.6
PCB-51	Tetra		2.5		2.4	2.6		2.8	1.9	J	2.6
PCB-52	Tetra		79	C	2	100	C	2.5	85	C	2
PCB-53	Tetra		9.2		2.4	11		2.8	8.4		2.6
PCB-54	Tetra			U	0.25		U	0.32		U	0.34
PCB-55	Tetra		2.3		1.7	0.74		2.3	1.5		1.6
PCB-56	Tetra		11	C	1.7	14	C	2.3	9.5	C	1.6
PCB-57	Tetra		0.57	J	1.7		U	0.33	0.46	J	1.6
PCB-58	Tetra			U	0.2		U	0.32		U	0.26
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		28	C	1.7	35	C	2.3	25	C	1.6
PCB-62	Tetra			U	0.25		U	0.32		U	0.3
PCB-63	Tetra		1.3	J	1.7	1.7	J	2.3	0.99	J	1.6
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.26		U	0.35		U	0.33
PCB-66	Tetra		25	C	1.7	30	C	2.3	21	C	1.6
PCB-67	Tetra		1.3	J	1.7	1.7	J	2.3	1	J	1.6
PCB-68	Tetra		0.64	J	1.7	0.88	J	2.3	0.53	J	1.6
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		1.4		2	1.4		2.5	1.6		2
PCB-74	Tetra		12		1.7	15		2.3	10		1.6
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		1.8		1.4	2.3		2.1	1.6		1.3
PCB-78	Tetra	PRC									
PCB-79	Tetra		0.61	J	1.4	1	J	2.1	0.8	J	1.3
PCB-80	Tetra			U	0.15		U	0.25		U	0.17
PCB-81	Tetra		1.8		1.4	2.8		2.1	1.7		1.3
PCB-82	Penta		4.6		1.2	6.2	L	2	3.9		1
PCB-83	Penta		2.5	C	1.2	3.8	C L	2	2	C	1
PCB-84	Penta		23	C	1.3	38	C L	2	23	C	1.1
PCB-85	Penta		6.9	C	1.2	8.9	C L	2	5.3	C	1
PCB-86	Penta		0.58	J	1.2		U L	0.67		U	0.31

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010		LDW-Y2-SC-ENR+AC-CB-S010		LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010				
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-87	Penta		33	C L	4.2	25	C L	3.9	11	C	1.7
PCB-88	Penta			UC L	0.25		UC L	0.21		UC	0.16		UC	0.15
PCB-89	Penta		1.7	J L	4.6	2.2	J L	4	1	J	2.1	2	J	2
PCB-90	Penta		100	C L	4.2	83	C L	3.9	38	C	1.7	75	C	1.6
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U L	0.26		U L	0.24		U	0.19		U	0.15
PCB-94	Penta		1.1	J L	4.6	1	J L	4	0.43	J	2.1	0.87	J	2
PCB-95	Penta		120	L	4.6	100	L	4	56		2.1	94		2
PCB-96	Penta		1.7	J L	4.4	1.5	J L	3.9	0.78	J	1.9	1.4	J	1.8
PCB-97	Penta		30	L	4.2	22	L	3.9	10		1.7	22		1.6
PCB-98	Penta			UC L	0.27		UC L	0.22		UC	0.17		UC	0.16
PCB-99	Penta		42	L	4.2	33	L	3.9	14		1.7	32		1.6
PCB-100	Penta		2.3	J L	4.6	1.6	J L	4	0.91	J	2.1	1.5	J	2
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		3.1	J L	4.6	2.4	J L	4	1.2	J	2.1	2.3	J	2
PCB-104	Penta	PRC												
PCB-105	Penta		17	L	3.9	16	L	3.8	5.9		1.4	11		1.4
PCB-106	Penta		47	C L	3.9	45	C L	3.8	16	C	1.4	29	C	1.4
PCB-107	Penta		3.7	C,J L	3.9	3.8	C L	3.8	1.3	C,J	1.4	2.3	C	1.4
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U L	1		U L	0.74		U	0.31		U	0.4
PCB-110	Penta		91	L	4.2	66	L	3.9	31		1.7	68		1.6
PCB-111	Penta		1.6	C,J L	4.1	1.4	C,J L	3.8	0.49	C,J	1.5	1.3	C,J	1.5
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U L	0.97		U L	0.83		U	0.35		U	0.38
PCB-114	Penta		1.6	J L	3.9	1.2	J L	3.8	0.51	J	1.4	0.83	J	1.4
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		3.1	J L	4.2	2.6	J L	3.9	1.1	J	1.7	2.1	J	1.6
PCB-120	Penta			U L	0.91		U L	0.67		U	0.24		U	0.32
PCB-121	Penta	PRC												
PCB-122	Penta		0.81	J L	3.9	0.79	J L	3.8		U	0.2	0.5	J	1.4
PCB-123	Penta		1	J L	3.9	1.1	J L	3.8	0.39	J	1.4	0.69	J	1.4
PCB-124	Penta		2.6	J L	3.9	2.4	J L	3.8	0.82	J	1.4	1.4	J	1.4
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U L	0.46		U L	0.56		U	0.2		U L	0.21
PCB-127	Penta			U L	0.4		U L	0.47		U	0.18		U L	0.2
PCB-128	Hexa		5.8	C L	3.1	6.8	C L	3.5	1.4	C L	0.77	2.3	C L	0.84
PCB-129	Hexa		2.2	J L	3.2	2.6	J L	3.6	0.56	J	0.84	0.88	J L	0.9
PCB-130	Hexa		2.9	J L	3.2	4	L	3.6	0.98		0.84	1.3	L	0.9
PCB-131	Hexa		1.6	C,J L	3.3	2.2	C,J L	3.6	0.52	C,J	0.9	0.86	C,J L	0.96

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010		LDW-Y2-SC-ENR-CE-S010		LDW-Y2-SU-ENR+AC-CA-S010		LDW-Y2-SU-ENR+AC-CB-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-87	Penta		36	C L	1.9	41	C L	2.1	140	C L	2.4
PCB-88	Penta			UC	0.14		UC L	0.14		UC L	0.26		UC	0.16
PCB-89	Penta		2.1		2	2.2	J L	2.3	9.9	L	2.4	5.3		1.8
PCB-90	Penta		110	C L	1.9	120	C L	2.1	390	C L	2.4	230	C L	1.5
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	0.14		U L	0.15		U L	0.26		U	0.17
PCB-94	Penta		0.92	J	2	1.2	J L	2.3	3.6	L	2.4	2		1.8
PCB-95	Penta		120		2	150	L	2.3	440	L	2.4	280		1.8
PCB-96	Penta		1.6	J L	2	1.9	J L	2.2	7.3	L	2.4	3.3		1.7
PCB-97	Penta		33	L	1.9	36	L	2.1	5.9	L	2.4	66	L	1.5
PCB-98	Penta			UC	0.16		UC L	0.16		UC L	0.29		UC	0.18
PCB-99	Penta		45	L	1.9	50	L	2.1	160	L	2.4	92	L	1.5
PCB-100	Penta		1.7		2	1.9	L	2.3	3.3	L	2.4	2		1.8
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		3		2	3.6	L	2.3	6.8	L	2.4	5.7		1.8
PCB-104	Penta	PRC												
PCB-105	Penta		19	L	1.8	20	L	1.9	81	L	2.5	32	L	1.3
PCB-106	Penta		53	C L	1.8	54	C L	1.9	200	C L	2.5	94	C L	1.3
PCB-107	Penta		4	C L	1.8	4.5	C L	1.9	18	C L	2.5	8.2	C L	1.3
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U L	0.31		U L	0.46		U L	0.37		U L	0.35
PCB-110	Penta		98	L	1.9	110	L	2.1	340	L	2.4	200	L	1.5
PCB-111	Penta		2.1	C L	1.9	2.5	C L	2	8.7	C L	2.5	3	C L	1.4
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U L	0.29		U L	0.44		U L	0.4		U L	0.38
PCB-114	Penta		1.4	J L	1.8	1.5	J L	1.9	6.4	L	2.5	2.4	L	1.3
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		3.3	L	1.9	3.4	L	2.1	9.8	L	2.4	6.4	L	1.5
PCB-120	Penta			U L	0.28		U L	0.41	1.7	J L	2.5	0.73	J L	1.3
PCB-121	Penta	PRC												
PCB-122	Penta		0.9	J L	1.8	0.91	J L	1.9	3.8	L	2.5	1.3	J L	1.3
PCB-123	Penta		1.2	J L	1.8	1.4	J L	1.9	5.2	L	2.5	1.8	L	1.3
PCB-124	Penta		2.7	L	1.8	2.8	L	1.9	9.8	L	2.5	4.6	L	1.3
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U L	0.29		U L	0.32	1.2	J L	2.6	0.38	J L	1.2
PCB-127	Penta			U L	0.26		U L	0.27		U L	0.61		U L	0.17
PCB-128	Hexa		6.6	C L	1.6	6.1	C L	1.4	30	C L	2.8	9.9	C L	0.92
PCB-129	Hexa		2.4	L	1.6	2.3	L	1.5	9.9	L	2.8	3.6	L	0.97
PCB-130	Hexa		3.6	L	1.6	3.6	L	1.5	14	L	2.8	5.2	L	0.97
PCB-131	Hexa		2.1	C L	1.6	2.2	C L	1.6	6.4	C L	2.7	2.6	C L	1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-87	Penta		120	C	0.85	86	C L	1.6	160	C	1.3
PCB-88	Penta			UC	0.12		UC	0.14		UC	0.11		UC	0.26
PCB-89	Penta		7.6		1.1	5.8		1.9	11		1.5	5.7		1.9
PCB-90	Penta		360	C	0.85	260	C L	1.6	460	C	1.3	220	C L	1.6
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	0.12		U	0.14		U	0.12		U	0.29
PCB-94	Penta		2.7		1.1	2.1		1.9	3.8		1.5	2.1		1.9
PCB-95	Penta		440		1.1	290		1.9	500		1.5	290		1.9
PCB-96	Penta		4.5		0.94	3.5	L	1.7	6.5		1.4	3.8	L	1.7
PCB-97	Penta		100		0.85	79	L	1.6	140		1.3	66	L	1.6
PCB-98	Penta			UC	0.13		UC	0.15		UC	0.13		UC	0.27
PCB-99	Penta		120		0.85	100	L	1.6	180		1.3	89	L	1.6
PCB-100	Penta		1.9		1.1	2.2		1.9	2.9		1.5	2.4		1.9
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		4.9		1.1	4.9		1.9	7.7		1.5	4.6		1.9
PCB-104	Penta	PRC												
PCB-105	Penta		46		0.69	40	L	1.4	66	L	1.2	32	L	1.3
PCB-106	Penta		120	C	0.69	100	C L	1.4	180	C L	1.2	90	C L	1.3
PCB-107	Penta		9.4	C	0.69	8.4	C L	1.4	17	C L	1.2	7.5	C L	1.3
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta		0.25	J	0.85		U L	0.54	0.59	J	1.3		U L	0.38
PCB-110	Penta		290		0.85	220	L	1.6	410		1.3	190	L	1.6
PCB-111	Penta		6	C	0.76	4.9	C L	1.5	6.4	C	1.2	3.9	C L	1.5
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	0.27		U L	0.59		U	0.31		U L	0.39
PCB-114	Penta		3.3		0.69	2.6	L	1.4	4.8	L	1.2	3	L	1.3
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		6.3		0.85	6.2	L	1.6	11		1.3	5.7	L	1.6
PCB-120	Penta		0.99		0.69		U L	0.45	1.3	L	1.2		U L	0.29
PCB-121	Penta	PRC												
PCB-122	Penta		1.9		0.69	1.4	L	1.4	2.6	L	1.2	1.5	L	1.3
PCB-123	Penta		2.6		0.69	2.6	L	1.4	4.5	L	1.2	2.2	L	1.3
PCB-124	Penta		6		0.69	4.9	L	1.4	8.8	L	1.2	5.1	L	1.3
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta		0.48	J	0.55	0.41	J L	1.2	0.78	J L	1	0.65	J L	1.1
PCB-127	Penta			U	0.14		U L	0.19		U L	0.19		U L	0.21
PCB-128	Hexa		9.2	C	0.37	8.3	C L	0.9	20	C L	0.82	8.2	C L	0.81
PCB-129	Hexa		3.9		0.41	2.7	L	0.96	7.6	L	0.86	3.1	L	0.87
PCB-130	Hexa		5		0.41	4	L	0.96	11	L	0.86	4.5	L	0.87
PCB-131	Hexa		3	C	0.44	2.9	C L	1	5.5	C L	0.9	2.3	C L	0.93

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB		LDW-Y2-IN-ENR+AC-CA-S010		LDW-Y2-IN-ENR+AC-CB-S010		LDW-Y2-IN-ENR+AC-CC-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-87	Penta		0.53	C,J L	2.4	6.3	C	0.81	21	C L	1.7
PCB-88	Penta			UC L	0.12		UC	0.066		UC	0.21		UC	0.19
PCB-89	Penta			U L	0.21	0.23	J	0.98	1.1	J	1.9	0.85	J	1.8
PCB-90	Penta		1	C,J L	2.4	16	C	0.81	56	C L	1.7	37	C L	1.6
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta		3.1	L	3		U	0.073		U	0.23		U	0.21
PCB-94	Penta			U L	0.14	0.19	J	0.98		U	0.23		U	0.21
PCB-95	Penta		3.1	L	3	33		0.98	85		1.9	54		1.8
PCB-96	Penta			U L	0.08	0.21	J	0.88	0.74	J	1.8	0.58	J	1.7
PCB-97	Penta		0.42	J L	2.4	5.1		0.81	17	L	1.7	1.1	J L	1.6
PCB-98	Penta			UC L	0.13		UC	0.071		UC	0.23		UC	0.2
PCB-99	Penta		0.48	J L	2.4	6.7		0.81	23	L	1.7	16	L	1.6
PCB-100	Penta		0.93	J L	3	0.41	J	0.98	0.86	J	1.9	0.83	J	1.8
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta			U L	0.11	0.47	J	0.98	1.4	J	1.9	0.99	J	1.8
PCB-104	Penta	PRC												
PCB-105	Penta			U L	0.1	3.1		0.68	10	L	1.6	7.5	L	1.5
PCB-106	Penta		0.46	C,J L	2	9.8	C	0.68	29	C L	1.6	21	C L	1.5
PCB-107	Penta			UC L	0.1	0.84	C	0.68	2.8	C L	1.6	2	C L	1.5
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U L	0.14		U	0.11		U L	0.45		U L	0.76
PCB-110	Penta		1.2	J L	2.4	19		0.81	65	L	1.7	43	L	1.6
PCB-111	Penta			UC L	0.12	0.3	C,J	0.74	1	C,J L	1.6	0.74	C,J L	1.6
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U L	0.14		U	0.11		U L	0.44		U L	0.74
PCB-114	Penta			U L	0.11	0.25	J	0.68		U L	0.27		U L	0.34
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta			U L	0.13	0.47	J	0.81	1.8	L	1.7	1.3	J L	1.6
PCB-120	Penta			U L	0.11		U	0.09		U L	0.38		U L	0.66
PCB-121	Penta	PRC												
PCB-122	Penta			U L	0.11	0.13	J	0.68		U L	0.29		U L	0.34
PCB-123	Penta			U L	0.11	0.22	J	0.68	0.61	J L	1.6	0.55	J L	1.5
PCB-124	Penta			U L	0.11	0.57	J	0.68	1.8	L	1.6	1.2	J L	1.5
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U L	0.097		U	0.049		U L	0.3		U L	0.37
PCB-127	Penta			U L	0.09		U	0.044		U L	0.27		U L	0.32
PCB-128	Hexa			UC L	0.069	1.1	C	0.41	3.8	C L	1.2	3.2	C L	1.2
PCB-129	Hexa			U L	0.1	0.45		0.44	1.8	L	1.2	1.3	L	1.2
PCB-130	Hexa			U L	0.1	0.71		0.44	2.7	L	1.2	2	L	1.2
PCB-131	Hexa			UC L	0.11	0.29	C,J	0.47	0.81	C,J L	1.3	1.2	C,J L	1.3

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-S010		LDW-Y2-IN-ENR-CB-S010		LDW-Y2-IN-ENR-CE-S010		LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-87	Penta		8.6	C	0.82	37	C L	4.3	20	C	1.3
PCB-88	Penta			UC	0.1		UC L	0.33		UC	0.26		UC	0.15
PCB-89	Penta			U	0.37		U L	1.1	0.92	J	1.5	1	J	1.9
PCB-90	Penta		23	C	0.82	98	C L	4.3	57	C	1.3	33	C	1.5
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	0.11		U L	0.37		U	0.27		U	0.16
PCB-94	Penta			U	0.11		U L	0.37	0.61	J	1.5		U	0.17
PCB-95	Penta		37		1	130	L	4	72		1.5	49		1.9
PCB-96	Penta		0.3	J	0.9	1.3	J L	4.2	0.67	J	1.4	0.6	J	1.7
PCB-97	Penta		7.7		0.82	1.7	J L	4.3	16		1.3	9.3		1.5
PCB-98	Penta			UC	0.11		UC L	0.36		UC	0.29		UC	0.17
PCB-99	Penta		9.9		0.82	42	L	4.3	23		1.3	14		1.5
PCB-100	Penta		0.52	J	1	2.1	J L	4	0.71	J	1.5	0.79	J	1.9
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		0.68	J	1	2.5	J L	4	1.1	J	1.5	1.4	J	1.9
PCB-104	Penta	PRC												
PCB-105	Penta		4.1		0.68	23	L	4.6	8		1.1	5.2		1.2
PCB-106	Penta		13	C	0.68	72	C L	4.6	23	C	1.1	14	C	1.2
PCB-107	Penta		1.1	C	0.68	6.8	C L	4.6	2.3	C	1.1	1.1	C,J	1.2
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U	0.25		U L	0.95		U	0.36		U	0.3
PCB-110	Penta		27		0.82	120	L	4.3	53		1.3	27		1.5
PCB-111	Penta		0.45	C,J	0.75	1.8	C,J L	4.4	0.86	C,J	1.2	0.59	C,J	1.3
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	0.24		U L	0.92		U	0.34		U	0.32
PCB-114	Penta		0.35	J	0.68	1.9	J L	4.6	0.78	J	1.1	0.41	J	1.2
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		0.77	J	0.82	3.7	J L	4.3	1.5		1.3	0.9	J	1.5
PCB-120	Penta			U	0.19		U L	0.96		U	0.3		U	0.22
PCB-121	Penta	PRC												
PCB-122	Penta		0.23	J	0.68	1.2	J L	4.6		U	0.2	0.25	J	1.2
PCB-123	Penta		0.35	J	0.68	1.9	J L	4.6	0.69	J	1.1	0.32	J	1.2
PCB-124	Penta		0.84		0.68	4.2	J L	4.6	1.3		1.1	0.7	J	1.2
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U	0.12		U L	0.91	0.28	J	0.92		U	0.14
PCB-127	Penta			U	0.11		U L	0.76		U	0.18		U	0.12
PCB-128	Hexa		1.3	C	0.4	18	C L	5.8	2.5	C L	0.69	1.1	C	0.58
PCB-129	Hexa		0.54		0.43	6.6	L	5.6	1.1	L	0.73	0.43	J	0.65
PCB-130	Hexa		0.95		0.43	10	L	5.6	1.4	L	0.73	0.61	J	0.65
PCB-131	Hexa		0.45	C,J	0.46	4.4	C,J L	5.4	0.8	C	0.78	0.38	C,J	0.71

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI				LDW-Y2-SC-ENR+AC-CC-SSWI				LDW-Y2-SC-ENR-CC-SSWI				LDW-Y2-SC-ENR-CD-SSWI			
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)				
			PCB-87	Penta		5.1	C	1.2	52	C L	9.9	14	C	2.6	17	C	1.2	
PCB-88	Penta			UC	0.15		UC L	0.97		UC	0.2		UC	0.12				
PCB-89	Penta		0.49	J	1.6	3.8	J L	10	1.5	J	3.3	1.6		1.4				
PCB-90	Penta		16	C	1.2	150	C L	9.9	47	C	2.6	54	C	1.2				
PCB-91	Penta			C088			C088			C088			C088					
PCB-92	Penta			C084			C084			C084			C084					
PCB-93	Penta			U	0.16		U L	1		U	0.21		U	0.13				
PCB-94	Penta			U	0.17		U L	1.1		U	0.23	0.53	J	1.4				
PCB-95	Penta		23		1.6	180	L	10	61		3.3	74		1.4				
PCB-96	Penta		0.35	J	1.4	2.7	J L	10	0.79	J	2.9	0.89	J	1.3				
PCB-97	Penta		4.2		1.2	43	L	9.9	12		2.6	15		1.2				
PCB-98	Penta			UC	0.17		UC L	1.1		UC	0.23		UC	0.14				
PCB-99	Penta		6.1		1.2	63	L	9.9	19		2.6	22		1.2				
PCB-100	Penta		0.32	J	1.6	3.4	J L	10	0.97	J	3.3	0.92	J	1.4				
PCB-101	Penta			C090			C090			C090			C090					
PCB-102	Penta			C098			C098			C098			C098					
PCB-103	Penta		0.53	J	1.6	4	J L	10	1.6	J	3.3	1.5		1.4				
PCB-104	Penta	PRC																
PCB-105	Penta		2.2		0.91	28	L	9.5	5.9		2.1	8.3		0.97				
PCB-106	Penta		5.6	C	0.91	78	C L	9.5	17	C	2.1	23	C	0.97				
PCB-107	Penta		0.47	C,J	0.91	2.6	C,J L	9.5	0.51	C,J	2.1	1.8	C	0.97				
PCB-108	Penta			C107			C107			C107			C107					
PCB-109	Penta			U	0.21		U L	2.5		U	0.53		U	0.25				
PCB-110	Penta		12		1.2	130	L	9.9	36		2.6	43		1.2				
PCB-111	Penta		0.28	C,J	1	3.1	C,J L	9.7	0.8	C,J	2.4	0.66	C,J	1.1				
PCB-112	Penta			C083			C083			C083			C083					
PCB-113	Penta			U	0.22		U L	2.6		U	0.55		U	0.26				
PCB-114	Penta		0.22	J	0.91	2.5	J L	9.5	0.56	J	2.1	0.51	J	0.97				
PCB-115	Penta			C111			C111			C111			C111					
PCB-116	Penta			C085			C085			C085			C085					
PCB-117	Penta			C087			C087			C087			C087					
PCB-118	Penta			C106			C106			C106			C106					
PCB-119	Penta		0.45	J	1.2	4.6	J L	9.9	1.5	J	2.6	1.5		1.2				
PCB-120	Penta			U	0.15		U L	2.2		U	0.39		U	0.19				
PCB-121	Penta	PRC																
PCB-122	Penta			U	0.14		U L	1.4		U	0.31	0.36	J	0.97				
PCB-123	Penta		0.21	J	0.91	2.8	J L	9.5	0.56	J	2.1	0.57	J	0.97				
PCB-124	Penta		0.39	J	0.91	4.5	J L	9.5	1	J	2.1	1.3		0.97				
PCB-125	Penta			C087			C087			C087			C087					
PCB-126	Penta			U	0.12		U L	1.6		U	0.29		U	0.16				
PCB-127	Penta			U	0.11		U L	1.4		U	0.25		U	0.14				
PCB-128	Hexa		0.44	C	0.41	9.8	C L	8.5	1.4	C	1.2	2	C L	0.55				
PCB-129	Hexa		0.23	J	0.46	4.5	J L	8.6	0.56	J	1.3	0.73	L	0.6				
PCB-130	Hexa		0.22	J	0.46	5.8	J L	8.6	0.87	J	1.3	1.2	L	0.6				
PCB-131	Hexa		0.17	C,J	0.51	4.1	C,J L	8.7	0.61	C,J	1.4	0.55	C,J L	0.64				

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CE-SSWI				LDW-Y2-IN-ENR+AC-CA-SSWI				LDW-Y2-IN-ENR+AC-CB-SSWI				LDW-Y2-IN-ENR+AC-CC-SSWI			
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)				
			PCB-87	Penta		31	C L	2.1	10	C	0.93	16	C L	1.7	12	C	1.1	
PCB-88	Penta			UC L	0.21		UC	0.079		UC	0.14		UC	0.087				
PCB-89	Penta		2.1	J L	2.5	0.51	J	1.1	0.6	J	1.9	0.61	J	1.2				
PCB-90	Penta		90	C L	2.1	31	C	0.93	46	C L	1.7	36	C	1.1				
PCB-91	Penta			C088			C088			C088			C088					
PCB-92	Penta			C084			C084			C084			C084					
PCB-93	Penta			U L	0.22		U	0.081		U	0.15		U	0.089				
PCB-94	Penta		1.1	J L	2.5	0.32	J	1.1	0.42	J	1.9	0.35	J	1.2				
PCB-95	Penta		140	- L	2.5	39		1.1	62		1.9	46		1.2				
PCB-96	Penta		1.8	J L	2.3	0.28	J	1	0.57	J L	1.8	0.43	J	1.1				
PCB-97	Penta		27	L	2.1	8.3		0.93	14	L	1.7	12		1.1				
PCB-98	Penta			UC L	0.24		UC	0.087		UC	0.16		UC	0.096				
PCB-99	Penta		38	L	2.1	14		0.93	21	L	1.7	16		1.1				
PCB-100	Penta		1.9	J L	2.5	0.51	J	1.1	0.74	J	1.9	0.57	J	1.2				
PCB-101	Penta			C090			C090			C090			C090					
PCB-102	Penta			C098			C098			C098			C098					
PCB-103	Penta		3.3	L	2.5	0.67	J	1.1	1.1	J	1.9	0.87	J	1.2				
PCB-104	Penta	PRC																
PCB-105	Penta		15	L	1.8	4.8		0.8	8	L	1.6	5.7		0.94				
PCB-106	Penta		44	C L	1.8	15	C	0.8	25	C L	1.6	17	C	0.94				
PCB-107	Penta		3.2	C L	1.8	1.3	C	0.8	2.2	C L	1.6	1.5	C	0.94				
PCB-108	Penta			C107			C107			C107			C107					
PCB-109	Penta			U L	0.47		U	0.2		U L	0.32		U	0.22				
PCB-110	Penta		78	L	2.1	30		0.93	49	L	1.7	36		1.1				
PCB-111	Penta		1.7	C,J L	1.9	0.56	C,J	0.86	0.9	C,J L	1.7	0.61	C,J	1				
PCB-112	Penta			C083			C083			C083			C083					
PCB-113	Penta			U L	0.49		U	0.19		U L	0.3		U	0.21				
PCB-114	Penta		1.3	J L	1.8	0.39	J	0.8	0.64	J L	1.6	0.3	J	0.94				
PCB-115	Penta			C111			C111			C111			C111					
PCB-116	Penta			C085			C085			C085			C085					
PCB-117	Penta			C087			C087			C087			C087					
PCB-118	Penta			C106			C106			C106			C106					
PCB-119	Penta		2.5	L	2.1	0.85	J	0.93	1.4	J L	1.7	1.1		1.1				
PCB-120	Penta			U L	0.37		U	0.16		U L	0.28		U	0.19				
PCB-121	Penta	PRC																
PCB-122	Penta			U L	0.37	0.22	J	0.8	0.43	J L	1.6	0.3	J	0.94				
PCB-123	Penta		1.1	J L	1.8	0.37	J	0.8	0.67	J L	1.6	0.35	J	0.94				
PCB-124	Penta		2.3	L	1.8	0.74	J	0.8	1.1	J L	1.6	0.87	J	0.94				
PCB-125	Penta			C087			C087			C087			C087					
PCB-126	Penta			U L	0.38		U	0.12		U L	0.22		U L	0.15				
PCB-127	Penta			U L	0.32		U	0.1		U L	0.19		U L	0.13				
PCB-128	Hexa		4	C L	1.1	1.9	C L	0.53	3.2	C L	1.3	2	C L	0.66				
PCB-129	Hexa		1.6	L	1.2	0.32	J L	0.56	1.2	J L	1.3	0.83	L	0.69				
PCB-130	Hexa		2.2	L	1.2	0.95	L	0.56	1.8	L	1.3	1.1	L	0.69				
PCB-131	Hexa		1.2	C,J L	1.3	0.38	C,J	0.59	0.9	C,J L	1.3	0.56	C,J L	0.73				

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-SSWI		LDW-Y2-IN-ENR-CB-SSWI		LDW-Y2-IN-ENR-CE-SSWI				
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-87	Penta		17	C	1.2	22	C L	2
PCB-88	Penta			UC	0.11		UC L	0.21		UC	0.085
PCB-89	Penta		0.67	J	1.3	0.99	J L	2.1	0.81	J	1.2
PCB-90	Penta		45	C	1.2	64	C L	2	41	C	1
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.12		U L	0.23		U	0.095
PCB-94	Penta		0.46	J	1.3		U L	0.23		U	0.096
PCB-95	Penta		60		1.3	81	L	2.1	56		1.2
PCB-96	Penta		0.52	J	1.3	0.83	J L	2	0.39	J	1.1
PCB-97	Penta		13		1.2	18	L	2	11		1
PCB-98	Penta			UC	0.12		UC L	0.22		UC	0.089
PCB-99	Penta		19		1.2	27	L	2	16		1
PCB-100	Penta		0.78	J	1.3	1.1	J L	2.1	0.53	J	1.2
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		1.1	J	1.3	1.5	J L	2.1	0.72	J	1.2
PCB-104	Penta	PRC									
PCB-105	Penta		7.8		1	11	L	1.9	6.7		0.85
PCB-106	Penta		22	C	1	36	C L	1.9	20	C	0.85
PCB-107	Penta		2	C	1	3.4	C L	1.9	1.8	C	0.85
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U	0.24		U L	0.46		U	0.21
PCB-110	Penta		51		1.2	65	L	2	40		1
PCB-111	Penta		0.92	C,J	1.1	1.3	C,J L	1.9	0.73	C,J	0.93
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U	0.23		U L	0.52		U	0.24
PCB-114	Penta		0.56	J	1	0.87	J L	1.9	0.56	J	0.85
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		1.5		1.2	2.1	L	2	1.2		1
PCB-120	Penta			U	0.21		U L	0.42		U	0.17
PCB-121	Penta	PRC									
PCB-122	Penta		0.33	J	1		U L	0.33	0.31	J	0.85
PCB-123	Penta		0.46	J	1	0.85	J L	1.9	0.44	J	0.85
PCB-124	Penta		1.1		1	2	L	1.9	1.1		0.85
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	0.18		U L	0.4		U	0.16
PCB-127	Penta			U L	0.16		U L	0.33		U	0.14
PCB-128	Hexa		2.7	C L	0.75	6.1	C L	1.7	1.9	C	0.52
PCB-129	Hexa		0.95	L	0.78	2	L	1.7	0.8		0.56
PCB-130	Hexa		1.5	L	0.78	3.3	L	1.7	1.1		0.56
PCB-131	Hexa		0.77	C,J L	0.82	1.5	C,J L	1.7	0.54	C,J	0.6

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010		LDW-Y2-SC-ENR+AC-CB-S010		LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010				
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-132	Hexa		15	C L	3.3	18	C L	3.6	4.8	C	0.9
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		3.9	C L	3.4	4.9	C L	3.6	1.3	C	0.98	2.1	C L	1
PCB-135	Hexa		9	L	3.4	10	L	3.6	2.9		0.98	4.8	L	1
PCB-136	Hexa		13	L	3.2	13	L	3.6	2.9		0.85	5.8	L	0.91
PCB-137	Hexa		2.1	J L	3.2	2.2	J L	3.6	0.6	J	0.84	0.91	L	0.9
PCB-138	Hexa		46	C L	3.2	51	C L	3.6	13	C	0.84	20	C L	0.9
PCB-139	Hexa		56	C L	3.4	62	C L	3.6	17	C	0.98	27	C L	1
PCB-140	Hexa			U L	0.44	0.84	J L	3.6	0.33	J	0.98	0.26	J L	1
PCB-141	Hexa		8.8	L	3.2	9.4	L	3.6	1.9		0.84	3.9	L	0.9
PCB-142	Hexa	PRC												
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		4	L	3.4	4.8	L	3.6	1.3		0.98	2	L	1
PCB-145	Hexa			U L	0.3		U L	0.2		U	0.074		U L	0.066
PCB-146	Hexa		11	C L	3.2	12	C L	3.6	3.3	C	0.84	4.6	C L	0.9
PCB-147	Hexa		1.5	J L	3.4	1.6	J L	3.6	0.42	J	0.98	0.63	J L	1
PCB-148	Hexa			U L	0.47		U L	0.29		U	0.12		U L	0.11
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U L	0.28		U L	0.21		U	0.075		U L	0.061
PCB-151	Hexa		20	L	3.4	19	L	3.6	5.8		0.98	11	L	1
PCB-152	Hexa			U L	0.28		U L	0.21		U	0.076		U L	0.062
PCB-153	Hexa		53	L	3.2	59	L	3.6	14		0.84	22	L	0.9
PCB-154	Hexa		1.7	J L	3.4	1.6	J L	3.6	0.4	J	0.98	0.91	L	1
PCB-155	Hexa	PRC												
PCB-156	Hexa		3	J L	3	3.3	J L	3.5	0.66	J L	0.71	1.2	L	0.78
PCB-157	Hexa		0.98	J L	3	1	J L	3.5	0.17	J L	0.71	0.38	J L	0.78
PCB-158	Hexa		4.8	C L	3.2	5.1	C L	3.6	1.4	C	0.84	1.9	C L	0.9
PCB-159	Hexa		1.2	J L	3	1.7	J L	3.5	0.28	J L	0.71	0.44	J L	0.78
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U L	0.35		U L	0.46		U	0.11		U L	0.1
PCB-167	Hexa		1.6	J L	3	1.8	J L	3.5	0.37	J L	0.71	0.6	J L	0.78
PCB-168	Hexa			U L	0.34		U L	0.42		U	0.098		U L	0.099
PCB-169	Hexa			U L	0.29		U L	0.39		U L	0.077		U L	0.08
PCB-170	Hepta		6.9	L	2.4	6.9	L	3.4	0.92	L	0.43	1.8	L	0.51
PCB-171	Hepta		2.8	L	2.6	2.9	J L	3.4	0.47	J L	0.49	0.7	L	0.57
PCB-172	Hepta		3.9	L	2.4	3.2	L	3.4	0.3	L	0.43	0.11	L	0.51
PCB-173	Hepta			U L	0.42		U L	0.5		U L	0.088		U L	0.078
PCB-174	Hepta		9.2	L	2.6	10	L	3.4	1.5	L	0.49	2.8	L	0.57
PCB-175	Hepta			U L	0.37		U L	0.44		U L	0.076		U L	0.07
PCB-176	Hepta		1.6	J L	2.4	2.2	J L	3.4	0.28	J L	0.42	0.45	J L	0.5

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010		LDW-Y2-SC-ENR-CE-S010		LDW-Y2-SU-ENR+AC-CA-S010		LDW-Y2-SU-ENR+AC-CB-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-132	Hexa		19	C L	1.6	19	C L	1.6	86	C L	2.7
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		4.8	C L	1.7	4.7	C L	1.6	18	C L	2.7	6.6	C L	1.1
PCB-135	Hexa		12	L	1.7	13	L	1.6	43	L	2.7	18	L	1.1
PCB-136	Hexa		15	L	1.6	15	L	1.5	56	L	2.8	19	L	0.98
PCB-137	Hexa		2.2	L	1.6	2.1	L	1.5	11	L	2.8	3.1	L	0.97
PCB-138	Hexa		53	C L	1.6	51	C L	1.5	210	C L	2.8	72	C L	0.97
PCB-139	Hexa		66	C L	1.7	66	C L	1.6	240	C L	2.7	89	C L	1.1
PCB-140	Hexa			U L	0.26	0.75	J L	1.6	2.8	L	2.7	1.2	L	1.1
PCB-141	Hexa		10	L	1.6	10	L	1.5	43	L	2.8	14	L	0.97
PCB-142	Hexa	PRC												
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		4.4	L	1.7	4.6	L	1.6	16	L	2.7	5	L	1.1
PCB-145	Hexa			U L	0.11		U L	0.14		U L	0.3		U L	0.079
PCB-146	Hexa		11	C L	1.6	13	C L	1.5	40	C L	2.8	16	C L	0.97
PCB-147	Hexa		1.8	L	1.7	1.8	L	1.6	5.7	L	2.7	2.2	L	1.1
PCB-148	Hexa			U L	0.17		U L	0.23		U L	0.41		U L	0.12
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U L	0.099		U L	0.13	1.3	J L	2.8	0.46	J L	0.98
PCB-151	Hexa		23	L	1.7	24	L	1.6	77	L	2.7	30	L	1.1
PCB-152	Hexa			U L	0.1		U L	0.13		U L	0.31		U L	0.081
PCB-153	Hexa		59	L	1.6	59	L	1.5	200	L	2.8	71	L	0.97
PCB-154	Hexa		3.4	L	1.7	2.3	L	1.6	4.6	L	2.7	2.6	L	1.1
PCB-155	Hexa	PRC												
PCB-156	Hexa		3.3	L	1.6	3.2	L	1.4	16	L	2.9	4.6	L	0.87
PCB-157	Hexa		0.81	J L	1.6	0.64	J L	1.4	4	L	2.9	0.79	J L	0.87
PCB-158	Hexa		4.9	C L	1.6	4.8	C L	1.5	23	C L	2.8	7.4	C L	0.97
PCB-159	Hexa		0.99	J L	1.6	0.98	J L	1.4	3	L	2.9	0.98	L	0.87
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U L	0.21		U L	0.19		U L	0.49		U L	0.18
PCB-167	Hexa		1.5	J L	1.6	1.5	L	1.4	7	L	2.9	1.7	L	0.87
PCB-168	Hexa			U L	0.2		U L	0.18		U L	0.47		U L	0.18
PCB-169	Hexa			U L	0.22		U L	0.17		U L	0.53		U L	0.14
PCB-170	Hepta		7.6	L	1.4	6.5	L	1.1	34	L	3.2	6.8	L	0.63
PCB-171	Hepta		3	L	1.5	2.8	L	1.2	13	L	3.1	2.7	L	0.69
PCB-172	Hepta		2.7	L	1.4	2.2	L	1.1	8.7	L	3.2	1.9	L	0.63
PCB-173	Hepta			U L	0.18		U L	0.2		U L	0.83		U L	0.12
PCB-174	Hepta		11	L	1.5	9.5	L	1.2	49	L	3.1	12	L	0.69
PCB-175	Hepta			U L	0.16		U L	0.18	1.3	J L	3.1	0.5	J L	0.69
PCB-176	Hepta		2.1	L	1.4	1.7	L	1.1	8.9	L	3.3	1.7	L	0.62

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-132	Hexa		28	C	0.44	30	C L	1	52	C L	0.9
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		7.7	C	0.48	7	C L	1.1	13	C L	0.95	5.9	C L	1
PCB-135	Hexa		18		0.48	16	L	1.1	31	L	0.95	16	L	1
PCB-136	Hexa		18		0.42	16	L	0.97	33	L	0.87	15	L	0.88
PCB-137	Hexa		3.5		0.41	3	L	0.96	6.5	L	0.86	2.9	L	0.87
PCB-138	Hexa		69	C	0.41	68	C L	0.96	140	C L	0.86	63	C L	0.87
PCB-139	Hexa		89	C	0.48	84	C L	1.1	160	C L	0.95	84	C L	1
PCB-140	Hexa		0.8		0.48	1	J L	1.1	1.8	L	0.95	0.95	J L	1
PCB-141	Hexa		14		0.41	13	L	0.96	28	L	0.86	13	L	0.87
PCB-142	Hexa	PRC												
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		5.4		0.48	5.5	L	1.1	9.4	L	0.95	5	L	1
PCB-145	Hexa			U	0.041		U L	0.048		U L	0.058		U L	0.086
PCB-146	Hexa		11	C	0.41	14	C L	0.96	24	C L	0.86	12	C L	0.87
PCB-147	Hexa		2.4		0.48	2.1	L	1.1	4.1	L	0.95	1.8	L	1
PCB-148	Hexa			U	0.067		U L	0.074		U L	0.088		U L	0.12
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa		0.26	J	0.42	0.4	J L	0.97	0.56	J L	0.87	0.37	J L	0.88
PCB-151	Hexa		28		0.48	28	L	1.1	48	L	0.95	25	L	1
PCB-152	Hexa		0.14	J	0.42		U L	0.049	0.3	J L	0.87		U L	0.09
PCB-153	Hexa		61		0.41	60	L	0.96	130	L	0.86	65	L	0.87
PCB-154	Hexa		1.3		0.48	2	L	1.1	3.3	L	0.95	1.4	L	1
PCB-155	Hexa	PRC												
PCB-156	Hexa		4.3		0.34	4.3	L	0.85	9.8	L	0.78	3.9	L	0.75
PCB-157	Hexa		0.77		0.34	1	L	0.85	2.3	L	0.78	1	L	0.75
PCB-158	Hexa		7.9	C	0.41	7.4	C L	0.96	16	C L	0.86	7	C L	0.87
PCB-159	Hexa		0.49		0.34	0.84	J L	0.85	0.93	L	0.78	0.89	L	0.75
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa		0.38	J	0.41		U L	0.17		U L	0.18		U L	0.18
PCB-167	Hexa		1.7		0.34	1.9	L	0.85	4.1	L	0.78	1.4	L	0.75
PCB-168	Hexa			U	0.1		U L	0.16		U L	0.17		U L	0.17
PCB-169	Hexa			U	0.074		U L	0.13		U L	0.14		U L	0.12
PCB-170	Hepta		3.8	L	0.2	5.3	L	0.59	14	L	0.58	3.8	L	0.48
PCB-171	Hepta		1.6		0.23	2.2	L	0.65	5.5	L	0.63	1.6	L	0.55
PCB-172	Hepta		0.79	L	0.2	1.3	L	0.59	3	L	0.58	0.79	L	0.48
PCB-173	Hepta		0.18	J	0.23		U L	0.066	0.61	J L	0.63		U L	0.085
PCB-174	Hepta		6.3		0.23	9	L	0.65	22	L	0.63	6.7	L	0.55
PCB-175	Hepta		0.32		0.23		U L	0.059	1.1	L	0.63	0.44	J L	0.55
PCB-176	Hepta		0.95	L	0.2	1.4	L	0.58	3.5	L	0.57	1.2	L	0.47

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB				LDW-Y2-IN-ENR+AC-CA-S010				LDW-Y2-IN-ENR+AC-CB-S010				LDW-Y2-IN-ENR+AC-CC-S010			
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL				
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)				
PCB-132	Hexa			UC L	0.081	2.6	C	0.47	9.1	C L	1.3	8.8	C L	1.3				
PCB-133	Hexa			C131			C131			C131			C131					
PCB-134	Hexa			UC L	0.11	0.75	C	0.5	2.4	C L	1.3	2.2	C L	1.3				
PCB-135	Hexa			U L	0.11	1.8		0.5	6.7	L	1.3	5.1	L	1.3				
PCB-136	Hexa			U L	0.076	1.9		0.44	7.2	L	1.2	5.6	L	1.2				
PCB-137	Hexa			U L	0.085	0.46		0.44	1.8	L	1.2	1.5	L	1.2				
PCB-138	Hexa		0.29	C,J L	1.2	7.5	C	0.44	32	C L	1.2	22	C L	1.2				
PCB-139	Hexa		0.5	C,J L	1.4	8.7	C	0.5	35	C L	1.3	26	C L	1.3				
PCB-140	Hexa			U L	0.096		U	0.038		U L	0.3		U L	0.34				
PCB-141	Hexa			U L	0.089	1.4		0.44	6	L	1.2	4.4	L	1.2				
PCB-142	Hexa	PRC																
PCB-143	Hexa			C134			C134			C134			C134					
PCB-144	Hexa			U L	0.1	0.48	J	0.5	2.3	L	1.3	1.4	L	1.3				
PCB-145	Hexa			U L	0.072		U	0.033		U L	0.13		U L	0.16				
PCB-146	Hexa			UC L	0.07	1.7	C	0.44	6.6	C L	1.2	7.1	C L	1.2				
PCB-147	Hexa			U L	0.09	0.28	J	0.5	1.1	J L	1.3	0.98	J L	1.3				
PCB-148	Hexa			U L	0.12		U	0.054		U L	0.19		U L	0.24				
PCB-149	Hexa			C139			C139			C139			C139					
PCB-150	Hexa			U L	0.062		U	0.029		U L	0.11		U L	0.14				
PCB-151	Hexa			U L	0.11	2.5		0.5	10	L	1.3	6.7	L	1.3				
PCB-152	Hexa			U L	0.068		U	0.032		U L	0.12		U L	0.16				
PCB-153	Hexa		2	L	1.2	7.7		0.44	32	L	1.2	23	L	1.2				
PCB-154	Hexa		0.3	J L	1.4	0.35		0.5	1.1	L	1.3	1.2	L	1.3				
PCB-155	Hexa	PRC																
PCB-156	Hexa			U L	0.056	0.45		0.38	2	L	1.1	1.2	L	1.2				
PCB-157	Hexa			U L	0.057	0.17	J	0.38	0.74	J L	1.1		U L	0.23				
PCB-158	Hexa		0.2	C,J L	1.2	0.91	C	0.44	3.3	C L	1.2	2.6	C L	1.2				
PCB-159	Hexa		0.26	J L	0.99	0.16	J	0.38		U L	0.19	0.61	J L	1.2				
PCB-160	Hexa			C158			C158			C158			C158					
PCB-161	Hexa			C132			C132			C132			C132					
PCB-162	Hexa			C128			C128			C128			C128					
PCB-163	Hexa			C138			C138			C138			C138					
PCB-164	Hexa			C138			C138			C138			C138					
PCB-165	Hexa			C146			C146			C146			C146					
PCB-166	Hexa			U L	0.064		U	0.027		U L	0.22		U L	0.25				
PCB-167	Hexa			U L	0.049	0.23	J	0.38	1	J L	1.1	0.8	J L	1.2				
PCB-168	Hexa			U L	0.064		U	0.027		U L	0.22		U L	0.25				
PCB-169	Hexa			U L	0.042		U	0.019		U L	0.16		U L	0.22				
PCB-170	Hepta			U L	0.049	0.46	L	0.25	2.2	L	0.88	1.8	L	0.96				
PCB-171	Hepta			U L	0.054		U L	0.016	0.82	J L	0.94	0.99	J L	1				
PCB-172	Hepta		0.83	L	0.59	0.2	L	0.25	0.4	L	0.88	0.88	L	0.96				
PCB-173	Hepta			U L	0.06		U L	0.018		U L	0.16		U L	0.23				
PCB-174	Hepta			U L	0.057	0.76	L	0.28	3.7	L	0.94	2.8	L	1				
PCB-175	Hepta			U L	0.053	0.045	J L	0.28		U L	0.14		U L	0.2				
PCB-176	Hepta			U L	0.034	0.12	J L	0.24	0.68	J L	0.87	0.5	J L	0.95				

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-S010		LDW-Y2-IN-ENR-CB-S010		LDW-Y2-IN-ENR-CE-S010		LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI					
			[PCB Cfree] Result		[PCB Cfree] DL	[PCB Cfree] Result		[PCB Cfree] DL	[PCB Cfree] Result		[PCB Cfree] DL			
			(pg/L)	Qualifier	(pg/L)	(pg/L)	Qualifier	(pg/L)	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	
PCB-132	Hexa		3.6	C	0.46	33	C L	5.4	5.4	C	0.78	3.4	C	0.71
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		1	C	0.5	9.1	C L	5.3	1.8	C	0.83	0.93	C	0.78
PCB-135	Hexa		2.4		0.5	19	L	5.3	1.2		0.83	2.4		0.78
PCB-136	Hexa		2.3		0.44	24	L	5.6	3.5	L	0.74	2.5		0.66
PCB-137	Hexa		0.58		0.43	5.8	L	5.6	1.2	L	0.73	0.47	J	0.65
PCB-138	Hexa		9.9	C	0.43	110	C L	5.6	16	C L	0.73	9.6	C	0.65
PCB-139	Hexa		12	C	0.5	100	C L	5.3	17	C	0.83	13	C	0.78
PCB-140	Hexa		0.17	J	0.5		U L	1		U	0.24	0.27	J	0.78
PCB-141	Hexa		1.8		0.43	18	L	5.6	3.2	L	0.73	1.8		0.65
PCB-142	Hexa	PRC												
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		0.63		0.5	5.9	L	5.3	1.2		0.83	0.89		0.78
PCB-145	Hexa			U	0.055		U L	0.51		U L	0.13		U	0.056
PCB-146	Hexa		2.5	C	0.43	26	C L	5.6	3.4	C L	0.73	1.9	C	0.65
PCB-147	Hexa		0.42	J	0.5	3.5	J L	5.3	0.62	J	0.83	0.32	J	0.78
PCB-148	Hexa			U	0.088		U L	0.68		U	0.22		U	0.1
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	0.047		U L	0.44		U L	0.12		U	0.055
PCB-151	Hexa		3.4		0.5	30	L	5.3	5.7		0.83	4.5		0.78
PCB-152	Hexa			U	0.052		U L	0.48		U L	0.13		U	0.062
PCB-153	Hexa		10		0.43	100	L	5.6	15	L	0.73	11		0.65
PCB-154	Hexa		0.47		0.5	3.1	L	5.3	0.47	J	0.83	0.4	J	0.78
PCB-155	Hexa	PRC												
PCB-156	Hexa		0.59		0.37	7.8	L	6	1.2	L	0.65	0.55		0.53
PCB-157	Hexa		0.2	J	0.37	3	J L	6	0.4	J L	0.65	0.15	J	0.53
PCB-158	Hexa		0.97	C	0.43	12	C L	5.6	1.9	C L	0.73	0.96	C	0.65
PCB-159	Hexa		0.18	J	0.37	2.7	J L	6		U L	0.15	0.19	J	0.53
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	0.069		U L	0.86		U L	0.18		U	0.092
PCB-167	Hexa		0.31	J	0.37	4.4	J L	6	0.6	J L	0.65	0.27	J	0.53
PCB-168	Hexa			U	0.069		U L	0.85		U L	0.17		U	0.087
PCB-169	Hexa			U	0.05		U L	0.89		U L	0.16		U	0.05
PCB-170	Hepta		0.55	L	0.24	12	L	7.4	1.2	L	0.44	0.65		0.29
PCB-171	Hepta		0.25	J L	0.27	4.3	J L	7	0.56	L	0.49	0.29	J	0.34
PCB-172	Hepta		0.071	L	0.24	11	L	7.4	0.41	L	0.44	0.17		0.29
PCB-173	Hepta			U L	0.05		U L	1.1		U L	0.12		U	0.066
PCB-174	Hepta		0.85	L	0.27	16	L	7	1.6	L	0.49	1		0.34
PCB-175	Hepta			U L	0.044		U L	1		U L	0.11		U	0.058
PCB-176	Hepta		0.14	J L	0.23	3.7	J L	7.5	0.28	J L	0.43	0.18	J	0.27

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI		LDW-Y2-SC-ENR+AC-CC-SSWI		LDW-Y2-SC-ENR-CC-SSWI		LDW-Y2-SC-ENR-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-132	Hexa		1.3	C	0.51	32	C L	8.7	5.2	C	1.4	6.7	C L	0.64
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		0.39	C,J	0.57	8.9	C L	8.8	1.4	C,J	1.5	1.7	C L	0.69
PCB-135	Hexa		0.83		0.57	18	L	8.8	3.3		1.5	4.3	L	0.69
PCB-136	Hexa		0.93		0.47	20	L	8.6	3.3		1.3	4.4	L	0.6
PCB-137	Hexa		0.2	J	0.46	4.2	J L	8.6	0.62	J	1.3	0.53	J L	0.6
PCB-138	Hexa		3.4	C	0.46	87	C L	8.6	12	C	1.3	18	C L	0.6
PCB-139	Hexa		5.4	C	0.57	97	C L	8.8	18	C	1.5	24	C L	0.69
PCB-140	Hexa		0.11	J	0.57		U L	1.6		U	0.29	0.28	J L	0.69
PCB-141	Hexa		0.71		0.46	17	L	8.6	2.5		1.3	3.3	L	0.6
PCB-142	Hexa	PRC												
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		0.37	J	0.57	7.7	J L	8.8	1.2	J	1.5	1.7	L	0.69
PCB-145	Hexa			U	0.045		U L	0.96		U	0.094		U L	0.057
PCB-146	Hexa		0.86	C	0.46	26	C L	8.6	3.4	C	1.3	3.7	C L	0.6
PCB-147	Hexa		0.2	J	0.57	2.1	J L	8.8	0.53	J	1.5	0.62	J L	0.69
PCB-148	Hexa			U	0.083		U L	1.5		U	0.16		U L	0.098
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	0.045		U L	0.95		U	0.092		U L	0.056
PCB-151	Hexa		1.7		0.57	30	L	8.8	5.9		1.5	7.3	L	0.69
PCB-152	Hexa			U	0.05		U L	1.1		U	0.1		U L	0.063
PCB-153	Hexa		4		0.46	92	L	8.6	14		1.3	18	L	0.6
PCB-154	Hexa		0.17	J	0.57	3.5	J L	8.8	0.56	J	1.5	0.55	L	0.69
PCB-155	Hexa	PRC												
PCB-156	Hexa		0.17	J	0.37	5.9	J L	8.3	0.72	J	1.1	0.93	L	0.5
PCB-157	Hexa		0.094	J	0.37	2.5	J L	8.3		U	0.19	0.21	J L	0.5
PCB-158	Hexa		0.36	C,J	0.46	9.1	C L	8.6	1.3	C	1.3	1.7	C L	0.6
PCB-159	Hexa		0.088	J	0.37	2.5	J L	8.3	0.32	J	1.1	0.3	J L	0.5
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	0.071		U L	1.3		U	0.21		U L	0.12
PCB-167	Hexa		0.093	J	0.37	2.9	J L	8.3	0.35	J	1.1	0.44	J L	0.5
PCB-168	Hexa			U	0.066		U L	1.2		U	0.19		U L	0.11
PCB-169	Hexa			U	0.038		U L	1.2		U	0.12		U L	0.087
PCB-170	Hepta		0.2		0.18	9.8	L	7.6	0.67	L	0.62	1.1	L	0.31
PCB-171	Hepta		0.086	J	0.22	4.1	J L	7.8	0.3	J	0.72	0.51	L	0.35
PCB-172	Hepta		0.026		0.18	0.85	L	7.6	0.029	L	0.62	0.55	L	0.31
PCB-173	Hepta			U	0.041		U L	1.5		U	0.12		U L	0.069
PCB-174	Hepta		0.36		0.22	15	L	7.8	1.3		0.72	2	L	0.35
PCB-175	Hepta			U	0.036		U L	1.3		U	0.11		U L	0.06
PCB-176	Hepta		0.073	J	0.18	2.7	J L	7.5	0.24	J L	0.6	0.32	L	0.3

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CE-SSWI		LDW-Y2-IN-ENR+AC-CA-SSWI		LDW-Y2-IN-ENR+AC-CB-SSWI		LDW-Y2-IN-ENR+AC-CC-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-132	Hexa		13	C L	1.3	4.1	C	0.59	7.2	C L	1.3
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		3.3	C L	1.3	1.1	C	0.63	2	C L	1.4	1.3	C L	0.76
PCB-135	Hexa		8.8	L	1.3	2.6		0.63	4	L	1.4	2.9	L	0.76
PCB-136	Hexa		9.2	L	1.2	2.4	L	0.57	4.7	L	1.3	3.2	L	0.7
PCB-137	Hexa		1.6	L	1.2	0.78	L	0.56	1.4	L	1.3	0.94	L	0.69
PCB-138	Hexa		35	C L	1.2	11	C L	0.56	21	C L	1.3	13	C L	0.69
PCB-139	Hexa		46	C L	1.3	12	C	0.63	21	C L	1.4	13	C L	0.76
PCB-140	Hexa		0.77	J L	1.3	0.26	J	0.63	0.4	J L	1.4	0.25	J L	0.76
PCB-141	Hexa		6.9	L	1.2	2.2	L	0.56	3.6	L	1.3	2.6	L	0.69
PCB-142	Hexa	PRC												
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		3.2	L	1.3	0.66		0.63	1.4	L	1.4	0.97	L	0.76
PCB-145	Hexa			U L	0.092		U L	0.044		U L	0.12		U L	0.063
PCB-146	Hexa		8.3	C L	1.2	2.7	C L	0.56	4.5	C L	1.3	2.9	C L	0.69
PCB-147	Hexa		1.1	J L	1.3	0.59	J	0.63	0.88	J L	1.4	0.62	J L	0.76
PCB-148	Hexa			U L	0.16		U	0.073		U L	0.2		U L	0.1
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U L	0.09		U L	0.041		U L	0.12		U L	0.059
PCB-151	Hexa		15	L	1.3	4.4		0.63	6.4	L	1.4	4.9	L	0.76
PCB-152	Hexa			U L	0.1		U L	0.042		U L	0.12		U L	0.06
PCB-153	Hexa		36	L	1.2	11	L	0.56	18	L	1.3	12	L	0.69
PCB-154	Hexa		1.1	L	1.3	0.33		0.63	0.52	J L	1.4	0.44	L	0.76
PCB-155	Hexa	PRC												
PCB-156	Hexa		2.1	L	1	0.77	L	0.5	1.5	L	1.2	0.85	L	0.63
PCB-157	Hexa		0.55	J L	1	0.29	J L	0.5	0.56	J L	1.2	0.29	J L	0.63
PCB-158	Hexa		3.4	C L	1.2	1.4	C L	0.56	2.5	C L	1.3	1.4	C L	0.69
PCB-159	Hexa		0.68	J L	1	0.19	J L	0.5	0.5	J L	1.2	0.23	J L	0.63
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U L	0.23		U L	0.084		U L	0.17		U L	0.088
PCB-167	Hexa		0.96	J L	1	0.36	J L	0.5	0.85	J L	1.2	0.46	J L	0.63
PCB-168	Hexa			U L	0.22		U L	0.081		U L	0.16		U L	0.084
PCB-169	Hexa			U L	0.18		U L	0.071		U L	0.14		U L	0.072
PCB-170	Hepta		2.6	L	0.68	0.86	L	0.36	2	L	1	1.1	L	0.47
PCB-171	Hepta		1.1	L	0.76	0.36	J L	0.39	0.81	J L	1.1	0.45	J L	0.51
PCB-172	Hepta		0.97	L	0.68	0.34	L	0.36	1.4	L	1	0.47	L	0.47
PCB-173	Hepta			U L	0.15		U L	0.067		U L	0.21		U L	0.098
PCB-174	Hepta		4.1	L	0.76	1.2	L	0.39	2.5	L	1.1	1.5	L	0.51
PCB-175	Hepta			U L	0.13	0.12	J L	0.39		U L	0.19		U L	0.088
PCB-176	Hepta		0.77	L	0.67	0.2	J L	0.35	0.42	J L	1	0.26	J L	0.46

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-SSWI			LDW-Y2-IN-ENR-CB-SSWI			LDW-Y2-IN-ENR-CE-SSWI		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-132	Hexa		6.1	C L	0.82	13	C L	1.7	4.8	C	0.6
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		1.8	C L	0.85	3.3	C L	1.8	1.4	C	0.64
PCB-135	Hexa		3.7	L	0.85	7.5	L	1.8	3		0.64
PCB-136	Hexa		3.4	L	0.79	6.9	L	1.7	2.5		0.57
PCB-137	Hexa		1.2	L	0.78	2	L	1.7	0.81		0.56
PCB-138	Hexa		18	C L	0.78	34	C L	1.7	13	C	0.56
PCB-139	Hexa		17	C L	0.85	37	C L	1.8	14	C	0.64
PCB-140	Hexa			U L	0.14		U L	0.39		U	0.12
PCB-141	Hexa		3.4	L	0.78	6.5	L	1.7	2.3		0.56
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		1.1	L	0.85	2.2	L	1.8	0.88		0.64
PCB-145	Hexa			U L	0.056		U L	0.15		U	0.047
PCB-146	Hexa		4.5	C L	0.78	9.9	C L	1.7	3	C	0.56
PCB-147	Hexa		0.63	J L	0.85	1.5	J L	1.8	0.61	J	0.64
PCB-148	Hexa			U L	0.092		U L	0.22		U	0.074
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	0.053		U L	0.15		U	0.048
PCB-151	Hexa		6.2	L	0.85	12	L	1.8	4.2		0.64
PCB-152	Hexa			U L	0.053		U L	0.16		U	0.049
PCB-153	Hexa		15	L	0.78	38	L	1.7	13		0.56
PCB-154	Hexa		0.58	L	0.85	0.95	L	1.8	0.35	J	0.64
PCB-155	Hexa	PRC									
PCB-156	Hexa		1.2	L	0.71	2.5	L	1.7	0.8		0.49
PCB-157	Hexa		0.38	J L	0.71	0.85	J L	1.7	0.27	J	0.49
PCB-158	Hexa		1.9	C L	0.78	3.9	C L	1.7	1.4	C	0.56
PCB-159	Hexa		0.35	J L	0.71	0.71	J L	1.7	0.22	J	0.49
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	0.11		U L	0.33		U	0.093
PCB-167	Hexa		0.55	J L	0.71	1.5	J L	1.7	0.44	J	0.49
PCB-168	Hexa			U L	0.11		U L	0.3	0.11	U	0.085
PCB-169	Hexa			U L	0.094		U L	0.27		U L	0.069
PCB-170	Hepta		1.4	L	0.54	3.2	L	1.6	0.65	L	0.32
PCB-171	Hepta		0.56	J L	0.58	1.2	J L	1.6	0.28	J L	0.36
PCB-172	Hepta		0.41	L	0.54	1.3	L	1.6	0.31	L	0.32
PCB-173	Hepta			U L	0.096		U L	0.3		U L	0.055
PCB-174	Hepta		1.6	L	0.58	4	L	1.6	1.1	L	0.36
PCB-175	Hepta			U L	0.086		U L	0.26		U L	0.048
PCB-176	Hepta		0.33	J L	0.53	0.73	J L	1.6	0.16	J L	0.31

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010		LDW-Y2-SC-ENR+AC-CB-S010		LDW-Y2-SC-ENR+AC-CC-S010		LDW-Y2-SC-ENR-CC-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-177	Hepta		6	L	2.6	6.4	L	3.4	1	L	0.49
PCB-178	Hepta		2.7	L	2.6	3.2	J L	3.4	0.47	J L	0.49	0.66	L	0.57
PCB-179	Hepta		5.3	L	2.4	6.6	L	3.4	0.81	L	0.42	1.4	L	0.5
PCB-180	Hepta		19	L	2.4	18	L	3.4	2.4	L	0.43	4.6	L	0.51
PCB-181	Hepta		0.89	J L	2.6	0.87	J L	3.4		U L	0.073		U L	0.071
PCB-182	Hepta		13	C L	2.6	15	C L	3.4	2.1	C L	0.49	3.5	C L	0.57
PCB-183	Hepta		7.2	L	2.6	7.3	L	3.4	1.2	L	0.49	1.8	L	0.57
PCB-184	Hepta	PRC												
PCB-185	Hepta		1.5	J L	2.6	1.3	J L	3.4	0.26	J L	0.49	0.43	J L	0.57
PCB-186	Hepta			U L	0.24		U L	0.31		U L	0.046		U L	0.041
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		0.79	J L	2.4	1.7	J L	3.4	0.1	J L	0.42	0.16	J L	0.5
PCB-189	Hepta			U L	0.21		U L	0.28		U L	0.038		U L	0.036
PCB-190	Hepta		1.6	J L	2.4	2.1	J L	3.4	0.21	J L	0.43	0.42	J L	0.51
PCB-191	Hepta			U L	0.27		U L	0.34		U L	0.053		U L	0.049
PCB-192	Hepta	PRC												
PCB-193	Hepta		1.4	J L	2.4		U L	0.34		U L	0.052	0.29	J L	0.51
PCB-194	Octa		1.6	J L	1.9	2	J L	3.2	0.17	J L	0.22	0.33	L	0.29
PCB-195	Octa		0.91	J L	2	1	J L	3.3	0.09	J L	0.25	0.15	J L	0.32
PCB-196	Octa		2.6	C L	2	3.8	C L	3.3	0.29	C L	0.25	0.6	C L	0.32
PCB-197	Octa		0.7	L	1.8	0.41	L	3.2	0.024	L	0.21	0.1	L	0.28
PCB-198	Octa			U L	0.21		U L	0.51		U L	0.036		U L	0.046
PCB-199	Octa		2.3	L	1.8	3.2	J L	3.2	0.24	L	0.21	0.55	L	0.28
PCB-200	Octa		0.47	J L	1.8		U L	0.33		U L	0.019		U L	0.028
PCB-201	Octa			U L	0.16		U L	0.34		U L	0.024		U L	0.034
PCB-202	Octa		0.71	J L	1.8	0.94	J L	3.2	0.076	J L	0.21	0.15	J L	0.28
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC												
PCB-205	Octa			U L	0.17		U L	0.31		U L	0.019		U L	0.041
PCB-206	Nona		0.4	J L	1.5		U L	0.56	0.036	J L	0.13	0.072	J L	0.19
PCB-207	Nona		0.14	L	1.4	0.64	L	3.1		U B L	0.11		U B L	0.16
PCB-208	Nona		0.21	J L	1.4		U L	0.39		U L	0.0096		U L	0.022
PCB-209	Deca		0.18	L	1.1	0.7	L	3		U B L	0.057	0.0077	L	0.092
Total Detected PCB Congeners			4700			5100			3400			7300		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010		LDW-Y2-SC-ENR-CE-S010		LDW-Y2-SU-ENR+AC-CA-S010		LDW-Y2-SU-ENR+AC-CB-S010					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-177	Hepta		6.8	L	1.5	6	L	1.2	28	L	3.1
PCB-178	Hepta		2.9	L	1.5	2.7	L	1.2	12	L	3.1	2.9	L	0.69
PCB-179	Hepta		7	L	1.4	6.2	L	1.1	30	L	3.3	5.9	L	0.62
PCB-180	Hepta		20	L	1.4	17	L	1.1	92	L	3.2	19	L	0.63
PCB-181	Hepta			U L	0.16	0.49	J L	1.2		U L	0.73		U L	0.11
PCB-182	Hepta		16	C L	1.5	13	C L	1.2	62	C L	3.1	15	C L	0.69
PCB-183	Hepta		7.4	L	1.5	6.7	L	1.2	28	L	3.1	6.8	L	0.69
PCB-184	Hepta	PRC												
PCB-185	Hepta		1.6	L	1.5	1.3	L	1.2	6.3	L	3.1	1.3	L	0.69
PCB-186	Hepta			U L	0.1	0.37	J L	1.1		U L	0.53		U L	0.067
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		0.75	J L	1.4	0.52	J L	1.1	2.2	J L	3.3	0.37	J L	0.62
PCB-189	Hepta			U L	0.096		U L	0.11	1.6	J L	3.3	0.26	J L	0.57
PCB-190	Hepta		1.7	L	1.4	1.4	L	1.1	7.8	L	3.2	1.5	L	0.63
PCB-191	Hepta			U L	0.12		U L	0.13	1.3	J L	3.2	0.22	J L	0.63
PCB-192	Hepta	PRC												
PCB-193	Hepta		1.3	J L	1.4	1.4	L	1.1	5	L	3.2	1.1	L	0.63
PCB-194	Octa		2	L	1.3	1.5	L	0.85	13	L	3.8	1.6	L	0.41
PCB-195	Octa		1	J L	1.3	0.81	J L	0.9	5.9	L	3.7	0.86	L	0.45
PCB-196	Octa		3.2	C L	1.3	2.7	C L	0.9	17	C L	3.7	2.5	C L	0.45
PCB-197	Octa		0.62	L	1.3	0.2	L	0.83	1.8	L	3.9	0.081	L	0.4
PCB-198	Octa			U L	0.17		U L	0.078	1.1	J L	3.7	0.16	J L	0.45
PCB-199	Octa		3.3	L	1.3	2.3	L	0.83	18	L	3.9	2.4	L	0.4
PCB-200	Octa			U L	0.12	0.43	J L	0.83	3.2	J L	3.9	0.3	J L	0.4
PCB-201	Octa			U L	0.13		U L	0.057		U L	0.37		U L	0.032
PCB-202	Octa		0.97	J L	1.3	0.72	J L	0.83	3.1	J L	3.9	0.6	L	0.4
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC												
PCB-205	Octa		0.21	J L	1.3		U L	0.12	1	J L	3.8	0.11	J L	0.41
PCB-206	Nona		0.7	J L	1.2	0.39	J L	0.69	4.3	J L	4.3	0.35	L	0.3
PCB-207	Nona		0.081	L	1.1	0.12	L	0.63	0.87	L	4.6	0.083	L	0.26
PCB-208	Nona		0.3	J L	1.1	0.19	J L	0.63	1.9	J L	4.6	0.13	J L	0.26
PCB-209	Deca		0.14	L	1	0.068	L	0.48	3.6	L	5.4	0.067	L	0.18
Total Detected PCB Congeners			5100			7800			15000			9800		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
PCB-177	Hepta		4		0.23	5.3	L	0.65	13	L	0.63	4	L	0.55
PCB-178	Hepta		1.4		0.23	2.2	L	0.65	4.9	L	0.63	1.8	L	0.55
PCB-179	Hepta		3.1	L	0.2	4.5	L	0.58	11	L	0.57	3.8	L	0.47
PCB-180	Hepta		9.7	L	0.2	15	L	0.59	36	L	0.58	10	L	0.48
PCB-181	Hepta			U	0.037		U L	0.058		U L	0.07		U L	0.078
PCB-182	Hepta		7.6	C	0.23	11	C L	0.65	26	C L	0.63	9.2	C L	0.55
PCB-183	Hepta		3.7		0.23	5.2	L	0.65	13	L	0.63	4	L	0.55
PCB-184	Hepta	PRC												
PCB-185	Hepta		0.75		0.23	1.2	L	0.65	2.6	L	0.63	0.88	L	0.55
PCB-186	Hepta			U L	0.022	0.17	J L	0.58		U L	0.045	0.16	J L	0.47
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		0.099	J L	0.2	0.32	J L	0.58	0.39	J L	0.57	0.31	J L	0.47
PCB-189	Hepta		0.12	J L	0.17	0.2	J L	0.53	0.46	J L	0.53	0.23	J L	0.42
PCB-190	Hepta		0.84	L	0.2	1.2	L	0.59	3	L	0.58	0.93	L	0.48
PCB-191	Hepta		0.21	L	0.2		U L	0.041	0.71	L	0.58		U L	0.05
PCB-192	Hepta	PRC												
PCB-193	Hepta		0.55	L	0.2	0.82	L	0.59	2.1	L	0.58	0.67	L	0.48
PCB-194	Octa		0.58	L	0.1	1.1	L	0.37	3.6	L	0.4	0.89	L	0.27
PCB-195	Octa		0.3	L	0.12	0.61	L	0.4	1.8	L	0.43	0.51	L	0.3
PCB-196	Octa		1	C L	0.12	1.7	C L	0.4	5.1	C L	0.43	1.3	C L	0.3
PCB-197	Octa		0.031	L	0.097		UB L	0.35	0.12	L	0.38	0.043	L	0.26
PCB-198	Octa		0.05	J L	0.12	0.13	J L	0.4	0.27	J L	0.43	0.15	J L	0.3
PCB-199	Octa		0.79	L	0.097	1.5	L	0.35	4.2	L	0.38	1.1	L	0.26
PCB-200	Octa		0.11	L	0.097	0.23	J L	0.35	0.64	L	0.38	0.2	J L	0.26
PCB-201	Octa		0.14	L	0.12	0.25	J L	0.4	0.74	L	0.43	0.16	J L	0.3
PCB-202	Octa		0.21	L	0.097	0.41	L	0.35	1.1	L	0.38	0.32	L	0.26
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC												
PCB-205	Octa		0.04	J L	0.1	0.098	J L	0.37	0.22	J L	0.4	0.2	J L	0.27
PCB-206	Nona		0.095	L	0.06	0.24	J L	0.25	0.77	L	0.3	0.22	L	0.17
PCB-207	Nona		0.0099	L	0.049	0.068	L	0.22	0.076	L	0.26	0.052	L	0.15
PCB-208	Nona		0.029	J L	0.049	0.078	J L	0.22	0.24	J L	0.26	0.081	J L	0.15
PCB-209	Deca		0.0088	L	0.025	0.046	L	0.14	0.12	L	0.18	0.053	L	0.082
Total Detected PCB Congeners			18000			13000			23000			13000		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB		LDW-Y2-IN-ENR+AC-CA-S010		LDW-Y2-IN-ENR+AC-CB-S010		LDW-Y2-IN-ENR+AC-CC-S010					
			[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL				
			(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier				
PCB-177	Hepta			U L	0.063	0.48	L	0.28	2	L	0.94	1.9	L	1
PCB-178	Hepta			U L	0.062	0.25	J L	0.28	1.2	L	0.94	1	L	1
PCB-179	Hepta			U L	0.034	0.41	L	0.24		U L	0.1	1.9	L	0.95
PCB-180	Hepta			U L	0.049	1.3	L	0.25	6.3	L	0.88	5.7	L	0.96
PCB-181	Hepta		0.25	J L	0.68	0.094	J L	0.28		U L	0.14		U L	0.2
PCB-182	Hepta		0.15	C,J L	0.68	1.1	C L	0.28	5.2	C L	0.94	3.9	C L	1
PCB-183	Hepta		0.24	J L	0.68	0.54	L	0.28	2.5	L	0.94	2	L	1
PCB-184	Hepta	PRC												
PCB-185	Hepta			U L	0.057	0.1	J L	0.28	0.52	J L	0.94		U L	0.22
PCB-186	Hepta		0.14	J L	0.57	0.048	J L	0.24		U L	0.1		U L	0.15
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		0.11	J L	0.57	0.074	J L	0.24	0.27	J L	0.87	0.5	J L	0.95
PCB-189	Hepta			U L	0.024		U L	0.0073		U L	0.087		U L	0.11
PCB-190	Hepta			U L	0.034	0.11	J L	0.25	0.47	J L	0.88	0.4	J L	0.96
PCB-191	Hepta			U L	0.035		U L	0.011		U L	0.1		U L	0.15
PCB-192	Hepta	PRC												
PCB-193	Hepta			U L	0.034	0.1	J L	0.25		U L	0.1		U L	0.15
PCB-194	Octa			U L	0.022	0.089	J L	0.15	0.54	J L	0.65	0.57	J L	0.75
PCB-195	Octa			U L	0.028	0.049	J L	0.16	0.27	J L	0.69	0.29	J L	0.78
PCB-196	Octa			U C L	0.022	0.16	C,J L	0.16	0.87	C L	0.69	0.82	C L	0.78
PCB-197	Octa			U B L	0.28	0.011	L	0.14	0.31	L	0.63	0.3	L	0.74
PCB-198	Octa			U L	0.028		U L	0.019		U L	0.1		U L	0.14
PCB-199	Octa			U L	0.02	0.13	J L	0.14	0.69	L	0.63	0.75	L	0.74
PCB-200	Octa			U L	0.017		U L	0.012		U L	0.067		U L	0.093
PCB-201	Octa			U L	0.021	0.031	J L	0.16		U L	0.076		U L	0.1
PCB-202	Octa			U L	0.016	0.048	J L	0.14	0.29	J L	0.63		U L	0.092
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC												
PCB-205	Octa			U L	0.017		U L	0.0083		U L	0.075		U L	0.11
PCB-206	Nona			U L	0.022	0.022	J L	0.095	0.15	J L	0.51		U L	0.15
PCB-207	Nona			U B L	0.14		U B L	0.082	0.045	L	0.47	0.058	L	0.58
PCB-208	Nona			U L	0.013	0.011	J L	0.082		U L	0.055		U L	0.11
PCB-209	Deca		0.0061	L	0.069	0.00027	L	0.048	0.11	L	0.35	0.15	L	0.46
Total Detected PCB Congeners			160			790			1200			850		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-S010		LDW-Y2-IN-ENR-CB-S010		LDW-Y2-IN-ENR-CE-S010		LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI					
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)			
PCB-177	Hepta		0.64	L	0.27	13	L	7	1.1	L	0.49	0.61		0.34
PCB-178	Hepta		0.32	L	0.27	6.1	J L	7	0.5	L	0.49	0.31	J	0.34
PCB-179	Hepta		0.55	L	0.23	12	L	7.5	0.81	L	0.43	0.47		0.27
PCB-180	Hepta		1.7	L	0.24	40	L	7.4	2.8	L	0.44	0.18	J	0.29
PCB-181	Hepta			U L	0.042		U L	0.96		U L	0.11		U	0.06
PCB-182	Hepta		1.2	C L	0.27	26	C L	7	2	C L	0.49	1.4	C	0.34
PCB-183	Hepta		0.64	L	0.27	11	L	7	1.1	L	0.49	0.81		0.34
PCB-184	Hepta	PRC												
PCB-185	Hepta			U L	0.048	2.8	J L	7		U L	0.1		U	0.059
PCB-186	Hepta			U L	0.029		U L	0.82		U L	0.063		U	0.034
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		0.11	J L	0.23		U L	0.94		U L	0.065		U	0.036
PCB-189	Hepta			U L	0.021		U L	0.67		U L	0.059		U	0.028
PCB-190	Hepta		0.15	J L	0.24	3.6	J L	7.4	0.31	J L	0.44		U	0.037
PCB-191	Hepta			U L	0.03		U L	0.81		U L	0.073		U	0.038
PCB-192	Hepta	PRC												
PCB-193	Hepta		0.12	J L	0.24	4.8	J L	7.4	0.24	J L	0.44		U	0.038
PCB-194	Octa		0.1	J L	0.13	7.6	J L	9.9	0.23	J L	0.27	0.1	J L	0.13
PCB-195	Octa		0.051	J L	0.15	2.7	J L	9.4	0.12	J L	0.3	0.05	J L	0.15
PCB-196	Octa		0.17	C L	0.15	9.3	C, J L	9.4	0.31	C L	0.3	0.19	C L	0.15
PCB-197	Octa		0.039	L	0.12	3.2	L	10		U B L	0.26	0.024	L	0.12
PCB-198	Octa			U L	0.03		U L	1.4		U L	0.071		U L	0.021
PCB-199	Octa		0.15	L	0.12	7.1	J L	10	0.27	L	0.26	0.13	L	0.12
PCB-200	Octa			U L	0.019		U L	1.1		U L	0.045		U L	0.013
PCB-201	Octa			U L	0.023		U L	1.1		U L	0.053		U L	0.016
PCB-202	Octa			U L	0.019		U L	1.1		U L	0.048	0.05	J L	0.12
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC												
PCB-205	Octa			U L	0.013		U L	0.96		U L	0.052		U L	0.015
PCB-206	Nona		0.025	J L	0.084		U L	2.5		U L	0.06	0.023	J L	0.066
PCB-207	Nona		0.0016	L	0.071	2.6	L	13	0.0082	L	0.16	0.0018	L	0.052
PCB-208	Nona			U L	0.0067		U L	1.9		U L	0.043		U L	0.0061
PCB-209	Deca		0.0019	L	0.04	8	L	18	0.018	L	0.1	0.00088	L	0.023
Total Detected PCB Congeners			670			2200			1100			3800		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI		LDW-Y2-SC-ENR+AC-CC-SSWI		LDW-Y2-SC-ENR-CC-SSWI		LDW-Y2-SC-ENR-CD-SSWI					
			[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL				
			(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier				
PCB-177	Hepta		0.23		0.22	9.7	L	7.8	0.78		0.72	1.1	L	0.35
PCB-178	Hepta		0.11	J	0.22	4.8	J L	7.8	0.4	J	0.72	0.52	L	0.35
PCB-179	Hepta		0.17	J	0.18	8.1	L	7.5	0.73	L	0.6	1	L	0.3
PCB-180	Hepta		0.52		0.18	27	L	7.6	2	L	0.62	0.31	J L	0.31
PCB-181	Hepta			U	0.037		U L	1.3		U	0.11		U L	0.062
PCB-182	Hepta		0.49	C	0.22	20	C L	7.8	1.8	C	0.72	2.6	C L	0.35
PCB-183	Hepta		0.31		0.22	11	L	7.8	1		0.72	1.4	L	0.35
PCB-184	Hepta	PRC												
PCB-185	Hepta			U	0.036		U L	1.3		U	0.11		U L	0.061
PCB-186	Hepta			U	0.02		U L	0.88		U L	0.065		U L	0.036
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta			U	0.023		U L	1.1		U L	0.073	0.097	J L	0.3
PCB-189	Hepta			U	0.015		U L	0.71		U L	0.052		U L	0.029
PCB-190	Hepta			U	0.022		U L	0.94		U L	0.071		U L	0.04
PCB-191	Hepta			U	0.023		U L	0.96		U L	0.072		U L	0.041
PCB-192	Hepta	PRC												
PCB-193	Hepta			U	0.023		U L	0.95		U L	0.072		U L	0.04
PCB-194	Octa		0.028	J	0.073	2.7	J L	6.7	0.15	J L	0.31	0.2	L	0.16
PCB-195	Octa			U	0.017		U L	1.5	0.073	J L	0.35	0.12	J L	0.18
PCB-196	Octa		0.056	C,J	0.086	4.5	C,J L	6.9	0.27	C,J L	0.35	0.31	C L	0.18
PCB-197	Octa		0.0042	J	0.067	3.5	L	6.6		U L	0.029	0.019	L	0.15
PCB-198	Octa			U	0.013		U L	1		U L	0.047		U L	0.019
PCB-199	Octa		0.04	J	0.067	4.6	J L	6.6	0.17	J L	0.29	0.24	L	0.15
PCB-200	Octa			U	0.0079		U L	0.77		U L	0.03		U L	0.013
PCB-201	Octa			U	0.01		U L	0.79	0.036	L	0.35		U L	0.015
PCB-202	Octa			U	0.0085		U L	0.83		U L	0.032	0.083	J L	0.15
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC								J				
PCB-205	Octa			U	0.011		U L	1		U L	0.023		U L	0.023
PCB-206	Nona			U	0.0076		U L	1.3	0.032	J L	0.18	0.036	J L	0.097
PCB-207	Nona			UB J	0.027	0.55	L	5.9		UB J L	0.15		UB L	0.08
PCB-208	Nona			U	0.0048		U L	0.98		U L	0.011	0.016	J L	0.08
PCB-209	Deca			UB J	0.011	1.1	L	5.2		UB J L	0.074	0.0076	L	0.043
Total Detected PCB Congeners			3100			9000			5700			5900		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CE-SSWI		LDW-Y2-IN-ENR+AC-CA-SSWI		LDW-Y2-IN-ENR+AC-CB-SSWI		LDW-Y2-IN-ENR+AC-CC-SSWI					
			[PCB Cfree] Result		[PCB Cfree] DL	[PCB Cfree] Result		[PCB Cfree] DL	[PCB Cfree] Result		[PCB Cfree] DL			
			(pg/L)	Qualifier	(pg/L)	(pg/L)	Qualifier	(pg/L)	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	
PCB-177	Hepta		2.4	L	0.76	0.79	L	0.39	1.7	L	1.1	1	L	0.51
PCB-178	Hepta		1.2	L	0.76	0.37	J L	0.39	0.86	J L	1.1	0.52	L	0.51
PCB-179	Hepta		2.3	L	0.67	0.69	L	0.35	1.5	L	1	0.85	L	0.46
PCB-180	Hepta		0.7	L	0.68	2.5	L	0.36	6	L	1	3.2	L	0.47
PCB-181	Hepta			U L	0.13	0.15	J L	0.39	0.38	J L	1.1		U L	0.088
PCB-182	Hepta		5.7	C L	0.76	1.7	C L	0.39	3.9	C L	1.1	2.2	C L	0.51
PCB-183	Hepta		3	L	0.76	0.9	L	0.39	2	L	1.1	1.1	L	0.51
PCB-184	Hepta	PRC												
PCB-185	Hepta			U L	0.13	0.22	J L	0.39	0.47	J L	1.1	0.19	J L	0.51
PCB-186	Hepta			U L	0.079	0.11	J L	0.35	0.32	J L	1	0.11	J L	0.46
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		0.27	J L	0.67	0.092	J L	0.35	0.32	J L	1	0.15	J L	0.46
PCB-189	Hepta			U L	0.057		U L	0.029		U L	0.093		U L	0.043
PCB-190	Hepta			U L	0.087	0.23	J L	0.36	0.55	J L	1	0.28	J L	0.47
PCB-191	Hepta			U L	0.088		U L	0.042		U L	0.14		U L	0.063
PCB-192	Hepta	PRC												
PCB-193	Hepta			U L	0.088	0.21	J L	0.36	0.54	J L	1	0.24	J L	0.47
PCB-194	Octa		0.54	L	0.4	0.17	J L	0.23	0.51	J L	0.8	0.24	J L	0.33
PCB-195	Octa		0.24	J L	0.44	0.091	J L	0.25	0.22	J L	0.83	0.14	J L	0.35
PCB-196	Octa		0.86	C L	0.44	0.3	C L	0.25	0.85	C L	0.83	0.38	C L	0.35
PCB-197	Octa		0.092	L	0.38	0.063	L	0.22	0.48	L	0.78		U B L	0.32
PCB-198	Octa			U L	0.058		U L	0.033		U L	0.088		U L	0.042
PCB-199	Octa		0.75	L	0.38	0.32	L	0.22	0.81	L	0.78	0.4	L	0.32
PCB-200	Octa			U L	0.039		U L	0.021		U L	0.059		U L	0.027
PCB-201	Octa			U L	0.044		U L	0.024		U L	0.065		U L	0.031
PCB-202	Octa		0.2	J L	0.38	0.094	J L	0.22	0.21	J L	0.78	0.13	J L	0.32
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC												
PCB-205	Octa			U L	0.054		U L	0.025		U L	0.095		U L	0.036
PCB-206	Nona		0.1	J L	0.26	0.056	J L	0.17	0.16	J L	0.67	0.069	J L	0.24
PCB-207	Nona		0.076	L	0.22		U B L	0.15	0.16	L	0.62	0.021	L	0.22
PCB-208	Nona		0.047	J L	0.22		U L	0.017	0.13	J L	0.62	0.04	J L	0.22
PCB-209	Deca		0.051	L	0.13		U B L	0.097	0.15	L	0.49	0.015	L	0.15
Total Detected PCB Congeners			10000			730			1100			900		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CA-SSWI		LDW-Y2-IN-ENR-CB-SSWI		LDW-Y2-IN-ENR-CE-SSWI				
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)	[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-177	Hepta		1.1	L	0.58	2.8	L	1.6
PCB-178	Hepta		0.56	J L	0.58	1.5	J L	1.6	0.32	J L	0.36
PCB-179	Hepta		1	L	0.53	2.7	L	1.6	0.47	L	0.31
PCB-180	Hepta		4	L	0.54	10	L	1.6	1.7	L	0.32
PCB-181	Hepta		0.32	J L	0.58	0.62	J L	1.6		U L	0.046
PCB-182	Hepta		2.7	C L	0.58	6.1	C L	1.6	1.3	C L	0.36
PCB-183	Hepta		1.2	L	0.58	3	L	1.6	0.66	L	0.36
PCB-184	Hepta	PRC									
PCB-185	Hepta		0.32	J L	0.58	0.67	J L	1.6		U L	0.05
PCB-186	Hepta		0.14	J L	0.53	0.52	J L	1.6		U L	0.03
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta		0.24	J L	0.53	0.75	J L	1.6		U L	0.036
PCB-189	Hepta			U L	0.044		U L	0.16		U L	0.024
PCB-190	Hepta		0.28	J L	0.54	0.77	J L	1.6	0.17	J L	0.32
PCB-191	Hepta			U L	0.062		U L	0.2		U L	0.034
PCB-192	Hepta	PRC									
PCB-193	Hepta		0.36	J L	0.54	0.71	J L	1.6	0.21	J L	0.32
PCB-194	Octa		0.27	J L	0.38	0.88	J L	1.4	0.11	J L	0.19
PCB-195	Octa		0.14	J L	0.4	0.56	J L	1.4	0.051	J L	0.21
PCB-196	Octa		0.39	C, J L	0.4	1.5	C L	1.4	0.21	C L	0.21
PCB-197	Octa		0.078	L	0.37	0.17	L	1.4		UB L	0.18
PCB-198	Octa			U L	0.054		U L	0.23		U L	0.029
PCB-199	Octa		0.46	L	0.37	1.6	L	1.4	0.15	J L	0.18
PCB-200	Octa			U L	0.035		U L	0.14		U L	0.016
PCB-201	Octa			U L	0.04		U L	0.15		U L	0.019
PCB-202	Octa		0.15	J L	0.37	0.53	J L	1.4	0.057	J L	0.18
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	0.035		U L	0.19		U L	0.017
PCB-206	Nona		0.083	J L	0.29	0.38	J L	1.3	0.026	J L	0.12
PCB-207	Nona		0.03	L	0.26	0.5	L	1.3		UB L	0.11
PCB-208	Nona			U L	0.039	0.31	J L	1.3		U L	0.0097
PCB-209	Deca		0.027	L	0.19	0.79	L	1.2	0.0018	L	0.063
Total Detected PCB Congeners			1000			1400			960		

Notes

C: Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter. For example, PCB-20 co-elutes with PCB-21 and PCB-33

J: Analyte concentration is below calibration range

L: Percent to steady state less than 20%

PCB: Polychlorinated biphenyl

pg/L: picogram per liter

PRC: Performance Reference Compound

U: Not detected at the Detection Limit (DL) shown in the second column for each sample.

UB: Cfree concentration after correction for trace PCBs present in the sampler before deployment is less than zero and is not reported as detectable

ATTACHMENT A: DATA ANALYSIS METHODS

Attachment A: Data Analysis Methods
Concentrations of Freely-Dissolved Polychlorinated Biphenyls (PCBs)
Measured via SP3ME™ Passive Samplers

Information about the SPME fiber and exposure duration for the samples reported in this document are provided in Table A1. The exposure duration as shown in Table A1 was calculated as the average exposure duration of each fiber in the composite sample. The deployment and retrieval dates and exposure duration of each composited fiber are shown in Table A2. The mass of PCB congeners in the extracts (Table A3) obtained from Frontier Analytical Laboratory report (Attachment C of the Data Report) were used in a multi-step data process to calculate C_{free} PCBs as described below.

Step 1:

The concentration of PCB analytes in the PDMS phase of the sampler was calculated as the mass of each PCB analyte (as reported by the laboratory, Table A3) divided by the volume PDMS. Volume of PDMS is shown in Table A2 and is based on the measured mass of the SPME fiber prior to compositing the fibers, the conversion factor of 0.069 gram per cm, 0.631 μL per cm, and density of PDMS (0.965 kilogram per liter [kg/L]).

The concentration of the PRCs in PDMS [$PDMS_t$] was used to calculate the elimination rate (k_e) values for the PRCs in each sample using the following equation (Lohmann, 2012):

$$PRC\ k_e = \ln\left(\frac{[PDMS_{t=0}]}{[PDMS_{t=final}]}\right) \div t_{final}$$

where:

$PDMS_{t=0}$ = the average concentration of the PRC in the PDMS at the beginning of the deployment (obtained from an average measurement of the Trip Blanks);

$PDMS_{t=final}$ = the concentration of the PRC in the PDMS after the deployment (obtained from each sample); and

t_{final} = the deployment time (in days).

k_e = the elimination rate (in days⁻¹)

PRC k_e values for the PRCs in the sediment-deployed sample are shown in Table A4. The values are also expressed as a percentage of steady state (concentration at equilibrium). A number of PRC k_e values were not calculated and were treated as outliers because $PDMS_{t=final}$ values were equal to or greater than $PDMS_{t=0}$ values.

PRC k_e values which deviated significantly from the log PRC K_e -log PRC K_{PDMS} regression line (resulting in p-value > 0.05) were also treated as outliers. In these cases, the outlier PRC(s) were removed to obtain a p-value less than 0.05.

Step 2:

The second step was to estimate k_e values for the non-PRC PCBs (primary analyte PCBs) in the sample. This was accomplished by developing a linear regression model using PRC k_e values (dependent variable, from Table A4) and PDMS-water partition coefficients (K_{PDMS}) for each PCB. K_{PDMS} values were the independent variable and were obtained from Smedes et al. (2009) and provided in Table A5. Note, regressions were specific to each sample (i.e. not global to the whole deployment) as local geologic and hydrodynamic can vary greatly within a site.

Values were log₁₀-transformed per Tomaszewski and Luthy (2008). Models were developed for each sample. By entering the PCB-specific K_{PDMS} into the linear regression model developed for each sample, k_e values for each of the primary analyte PCBs for each sample were calculated. The p-value and r^2 for each sample-specific model is provided in Table A4 as measures of how well the linear PRC model performed.

Step 3:

Concentrations of some primary analyte PCBs in PDMS (derived from the PCB masses in Table A3 and PDMS masses in Table A1) were corrected for trace levels of primary analyte PCBs present in the Trip Blanks (due to trace levels present in the PRC spiking solutions). Using the sample specific k_e values, the expected amount of these trace primary analyte PCBs present in the sample at the end of deployment ($Trace\ PCB_{t=final}$) were calculated via the following equation:

$$[Trace\ PCB_{t=final}] = \frac{[Trace\ PCB_{t=0}]}{e^{k_e \times t_{final}}}$$

where:

$Trace\ PCB_{t=final}$ = the expected concentration of trace PCBs remaining in the sample at the end of the deployment;

$Trace\ PCB_{t=0}$ = the average concentration of the trace PCB in the PDMS at the beginning of the deployment;

k_e = the elimination rate value predicted by the sampler-specific regression model (in days⁻¹); and

t_{final} = the deployment time (in days).

Trace PCB $t=0$ values were obtained from an average measurement of the trace PCBs in the Trip Blanks. The concentrations of Trace PCBs in Trip Blanks were assumed to be zero when Trace PCBs were not detected.

Concentrations of *Trace PCB* $t=final$ values were then subtracted from the measured concentrations of primary analyte PCBs in PDMS (derived from the PCB masses in Table A3 and PDMS masses in Table A1).

Step 4:

This step describes the calculation of sampling rate correction factor (*CF*) for each primary analyte PCB in each sample. The following equation is used, as adapted from Lohmann (2012):

$$CF = \frac{1}{1 - e^{-k_e \times t_{final}}}$$

where:

- k_e = the elimination rate value predicted by the sample-specific regression model (in days⁻¹); and
- t_{final} = the deployment time (in days).

Step 5:

The concentration of PCBs in the PDMS of each sample (derived from the PCB masses in Table A3 and PDMS masses in Table A1, or values corrected for *Trace PCB* $t=final$) were multiplied by the *CF* values to calculate the steady-state concentration of PCBs.

Step 6:

In the final step, the steady-state concentrations are divided by K_{PDMS} values (Smedes et al., 2009) to obtain the concentrations of C_{free} PCBs. These are reported in Table 1. C_{free} Detection Limits (DLs) were calculated in the approach described above by dividing the estimated DL concentration in sample extracts, as reported by Frontier Analytical Laboratory and shown in Table A3, by the mass of PDMS extracted in each sample, as shown in Table A1.

The estimated detection limit (EDL) was used for non-detected results and the minimum level of quantitation (ML) was used for detected results. Cases in which the percentage of steady state was indicated to be less than 20% for a primary analyte PCB, a qualifier, “L”, was noted³. All other qualifiers, as reported in the original analytical results for PCB masses of each congener in each sampler extract (Attachment C of the Data Report), are carried through and reported in the C_{free} results. Table 1 also reports the sum of the detected C_{free} PCB congeners.

³ Differences in $t=0$ and $t=final$ concentrations of less than 10-20% may be within measurement error, as determined by general variability in PRCs in Trip Blank measurements. When a PCB reaches less than 10-20% of steady state in a sampler, C_{free} calculations are potentially affected by measurement uncertainty.

It should be noted that in some cases, corrections for impurity (subtracting the concentration of impurity from the detected PCB concentration in PDMS), leads to a concentration that is below the DL. In those cases, the estimated C_{free} values are not flagged with a J qualifier (although they are below the C_{free} DL).

An uncertainty analysis was conducted to evaluate the uncertainty in the estimation of CF values for each of the primary analytes. From the linear regression model using PRC k_e values (dependent variable, from Table A4) and PRC K_{PDMS} values (Step 2), upper and lower bound estimates for k_e values were obtained for each PCB analyte in each sample by calculating the lower and upper 80% confidence level (CL) model predictions for predicted k_e (Sokal and Rohlf, 1999). These 80% lower and upper CL k_e values were then used to calculate lower and upper CL CF values that were applied to calculate upper and lower CL values for C_{free} for each PCB congener in each sample (Steps 4 and 5). These lower and upper CL C_{free} values are shown in Table A6. Via summing the lower CL values for C_{free} for the PCB congeners, a lower CL value for the C_{free} total PCBs were calculated (Table A6). Via summing the upper CL values for C_{free} for the PCB congeners, an upper CL value for the C_{free} total PCBs were calculated (Table A6). The range between the lower and upper CL C_{free} values represents the range of values that would contain approximately 80% of possible C_{free} estimates calculated via the above approach. Expressed alternatively, there is 80% confidence the C_{free} value lies within that range.

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- United States Environmental Protection Agency (USEPA). 2003. Table of PCB Species by Congener Number.

TABLE A1

Table A1. Fiber Details.

Sample ID	Sample Type	Mass of Vial, Empty (g)	Mass of Vial, with Fiber (g)	Mass of Fiber (g)	Length of Fiber, based on mass (cm)	Number of Fibers Included	Length of Fiber Trimmed ^[3] (cm)	Length of Fiber, Nominal (cm)	Recovery (%)	Volume of PDMS (µL)	Mass of PDMS (g)	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date	Average Exposure Duration (days)
LDW-Y2-SC-ENR+AC-CA/AC-CD-S010	Sample ^[1]	16.92892	19.60851	2.6796	38.8346	4	0	40.0	97%	24.5	0.024	5/13/2019	6/25/2019	41
LDW-Y2-SC-ENR+AC-CB-S010	Sample	8.46064	11.06716	2.6065	37.7757	4	0	40.0	94%	23.8	0.023	5/13/2019	6/25/2019	41
LDW-Y2-SC-ENR+AC-CC-S010	Sample	8.49648	11.02832	2.5318	36.6933	4	0	40.0	92%	23.2	0.022	5/13/2019	6/25/2019	41
LDW-Y2-SC-ENR-CC-S010	Sample	8.46482	11.75859	3.2938	47.7358	5	0	50.0	95%	30.1	0.029	5/13/2019	6/22/2019	38
LDW-Y2-SC-ENR-CD-S010	Sample	8.43421	12.44811	4.0139	58.1725	6	0	60.0	97%	36.5	0.035	4/26/2019	6/22/2019	38
LDW-Y2-SC-ENR-CE-S010	Sample	8.4635	12.44987	3.98637	57.7735	6	0	60.0	96%	38.1	0.037	4/26/2019	6/22/2019	38
LDW-Y2-SU-ENR+AC-CA-S010	Sample	8.49569	12.66564	4.1700	60.4341	6	0	60.0	101%	38.1	0.037	4/26/2019	6/22/2019	57
LDW-Y2-SU-ENR+AC-CB-S010	Sample	8.36276	12.38871	4.0260	58.3471	6	0	60.0	97%	36.8	0.036	4/26/2019	6/22/2019	57
LDW-Y2-SU-ENR+AC-CC-S010	Sample	8.30820	12.46348	4.1553	60.2214	6	0	60.0	100%	38.0	0.037	4/26/2019	6/22/2019	57
LDW-Y2-SU-ENR-CA-S010	Sample	8.27244	12.46562	4.1932	60.7707	6	0	60.0	101%	38.3	0.037	4/26/2019	6/22/2019	57
LDW-Y2-SU-ENR-CB-S010	Sample	8.37637	12.53737	4.1610	60.3043	6	0	60.0	101%	38.1	0.037	4/26/2019	6/22/2019	57
LDW-Y2-SU-ENR-CC-S010	Sample	8.51443	12.64894	4.1345	59.9204	6	0	60.0	100%	37.8	0.036	4/26/2019	6/22/2019	57
LDW-Y2-SU-S010-LCB	Sample	8.40526	12.53070	4.1254	59.7890	6	0	60.0	100%	37.7	0.036	4/26/2019	6/22/2019	57
LDW-Y2-IN-ENR+AC-CA-S010	Sample	8.44056	12.35861	3.9181	56.7833	6	0	60.0	95%	35.8	0.035	5/9/2019	6/18/2019	39
LDW-Y2-IN-ENR+AC-CB-S010	Sample	8.45859	12.36024	3.9017	56.5457	6	0	60.0	94%	35.7	0.034	5/9/2019	6/18/2019	39
LDW-Y2-IN-ENR+AC-CC-S010	Sample	8.46233	12.51318	4.0509	58.7080	6	0	60.0	98%	37.0	0.036	5/9/2019	6/17/2019	39
LDW-Y2-IN-ENR-CA-S010	Sample	8.47332	12.30000	3.8267	55.4591	6	0	60.0	92%	35.0	0.034	5/9/2019	6/19/2019	40
LDW-Y2-IN-ENR-CB-S010	Sample	8.46884	11.96312	3.4943	50.6417	6	0	60.0	84%	32.0	0.031	5/9/2019	6/19/2019	40
LDW-Y2-IN-ENR-CE-S010	Sample	8.48440	11.62856	3.1442	45.5675	5	0	50.0	91%	28.8	0.028	5/9/2019	6/19/2019	40
LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI	Sample ^[2]	16.90022	19.55512	2.6549	38.4768	4	0	40.0	96%	24.3	0.023	5/13/2019	6/25/2019	41
LDW-Y2-SC-ENR+AC-CB-SSWI	Sample	8.46838	10.48143	2.0131	29.1746	3	0	30.0	97%	18.4	0.018	5/13/2019	6/25/2019	41
LDW-Y2-SC-ENR+AC-CC-SSWI	Sample	8.47965	10.53161	2.0520	29.7386	3	0	30.0	99%	18.8	0.018	5/13/2019	6/25/2019	41
LDW-Y2-SC-ENR-CC-SSWI	Sample	8.49904	9.80730	1.3083	18.9603	2	0	20.0	95%	12.0	0.012	5/13/2019	6/22/2019	38
LDW-Y2-SC-ENR-CD-SSWI	Sample	8.43564	12.47678	4.0411	58.5672	6	0	60.0	98%	37.0	0.036	5/13/2019	6/22/2019	38
LDW-Y2-SC-ENR-CE-SSWI	Sample	8.46666	12.47875	4.0121	58.1462	5	0	50.0	116%	36.7	0.035	5/13/2019	6/22/2019	38
LDW-Y2-IN-ENR+AC-CA-SSWI	Sample	8.48070	12.62485	4.1442	60.0601	6	0	60.0	100%	37.9	0.037	5/9/2019	6/18/2019	39
LDW-Y2-IN-ENR+AC-CB-SSWI	Sample	8.40565	12.55778	4.1521	60.1758	6	0	60.0	100%	38.0	0.037	5/9/2019	6/18/2019	39
LDW-Y2-IN-ENR+AC-CC-SSWI	Sample	8.44567	12.57694	4.1313	59.8735	6	0	60.0	100%	37.8	0.036	5/9/2019	6/17/2019	39
LDW-Y2-IN-ENR-CA-SSWI	Sample	8.39603	12.52044	4.1244	59.7741	6	0	60.0	100%	37.7	0.036	5/9/2019	6/19/2019	40
LDW-Y2-IN-ENR-CB-SSWI	Sample	8.45839	12.64030	4.1819	60.6074	6	0	60.0	101%	38.2	0.037	5/9/2019	6/19/2019	40
LDW-Y2-IN-ENR-CE-SSWI	Sample	8.47164	11.92825	3.4566	50.0958	5	0	50.0	100%	31.6	0.031	5/9/2019	6/19/2019	40
LDW-Y2-SC-S010-TB	Trip Blank	8.40862	12.54314	4.1345	59.9206	6	0	60.0	100%	37.8	0.036	5/9/2019	5/9/2019	0
LDW-Y2-SU-S010-TB	Trip Blank	8.45645	12.53849	4.0820	59.1600	6	0	60.0	99%	37.3	0.036	5/9/2019	5/9/2019	0
LDW-Y2-IN-S010-TB	Trip Blank	8.44842	12.59719	4.1488	60.1271	6	0	60.0	100%	37.9	0.037	5/9/2019	5/9/2019	0

Notes

[1]: Combination of 2 retrieved SPME fibers from LDW-Y2-SC-ENR+AC-CA-S010 and 2 fibers from LDW-Y2-SC-ENR+AC-CD-S010 composites. The values used for the earliest and latest sampler deployment/retrieval dates and the average exposure date are based on the averages of those values for the two composites

[2]: Combination of 2 retrieved SPME fibers from LDW-Y2-SC-ENR+AC-CA-SSWI and 2 fibers from LDW-Y2-SC-ENR+AC-CD-SSWI composites. The values used for the earliest and latest sampler deployment/retrieval dates and the average exposure date are based on the averages of those values for the two composites

[3]: For fibers that were observed to be exposed to more than approximately 2.5 cm (or more) of overlying water during their *situ* exposures (i.e., only the lower 7.5 cm of the fiber was found to be full inserted within the sediment at the time of retrieval), the portion of the fiber exposed to the overlying water (rounded up to the nearest cm) was removed and excluded prior to compositing the lower portion of the fiber into the extraction vial.

%: percent

g: gram

µL: microliter

cm: centimeter

TABLE A2

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y2-SC-ENR+AC-1-A-S010-SPME	LDW-Y2-SC-ENR+AC-CA-S010	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-A-S010-SPME	LDW-Y2-SC-ENR+AC-CA-S010	5/14/2019	Not retrieved	N	NA			
LDW-Y2-SC-ENR+AC-3-A-S010-SPME	LDW-Y2-SC-ENR+AC-CA-S010	5/14/2019	6/24/2019	N	41			
LDW-Y2-SC-ENR+AC-4-A-S010-SPME	LDW-Y2-SC-ENR+AC-CA-S010	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-5-A-S010-SPME	LDW-Y2-SC-ENR+AC-CA-S010	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-A-S010-SPME	LDW-Y2-SC-ENR+AC-CA-S010	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR+AC-1-B-S010-SPME	LDW-Y2-SC-ENR+AC-CB-S010	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-B-S010-SPME	LDW-Y2-SC-ENR+AC-CB-S010	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-3-B-S010-SPME	LDW-Y2-SC-ENR+AC-CB-S010	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-4-B-S010-SPME	LDW-Y2-SC-ENR+AC-CB-S010	5/14/2019	6/22/2019	Y	39			
LDW-Y2-SC-ENR+AC-5-B-S010-SPME	LDW-Y2-SC-ENR+AC-CB-S010	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-B-S010-SPME	LDW-Y2-SC-ENR+AC-CB-S010	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-C-S010-SPME	LDW-Y2-SC-ENR+AC-CC-S010	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-C-S010-SPME	LDW-Y2-SC-ENR+AC-CC-S010	5/15/2019	6/24/2019	Y	40			
LDW-Y2-SC-ENR+AC-3-C-S010-SPME	LDW-Y2-SC-ENR+AC-CC-S010	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-4-C-S010-SPME	LDW-Y2-SC-ENR+AC-CC-S010	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR+AC-5-C-S010-SPME	LDW-Y2-SC-ENR+AC-CC-S010	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-C-S010-SPME	LDW-Y2-SC-ENR+AC-CC-S010	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-D-S010-SPME	LDW-Y2-SC-ENR+AC-CD-S010	5/14/2019	6/25/2019	N	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-D-S010-SPME	LDW-Y2-SC-ENR+AC-CD-S010	5/15/2019	6/24/2019	Y	40			
LDW-Y2-SC-ENR+AC-3-D-S010-SPME	LDW-Y2-SC-ENR+AC-CD-S010	5/14/2019	6/24/2019	N	41			
LDW-Y2-SC-ENR+AC-4-D-S010-SPME	LDW-Y2-SC-ENR+AC-CD-S010	5/14/2019	6/22/2019	N	39			
LDW-Y2-SC-ENR+AC-5-D-S010-SPME	LDW-Y2-SC-ENR+AC-CD-S010	5/13/2019	6/24/2019	Y	42			
LDW-Y2-SC-ENR+AC-6-D-S010-SPME	LDW-Y2-SC-ENR+AC-CD-S010	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-E-S010-SPME	LDW-Y2-SC-ENR+AC-CE-S010	5/14/2019	6/25/2019	N	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-E-S010-SPME	LDW-Y2-SC-ENR+AC-CE-S010	5/14/2019	Not retrieved	N	NA			
LDW-Y2-SC-ENR+AC-3-E-S010-SPME	LDW-Y2-SC-ENR+AC-CE-S010	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-4-E-S010-SPME	LDW-Y2-SC-ENR+AC-CE-S010	5/14/2019	6/22/2019	N	39			
LDW-Y2-SC-ENR+AC-5-E-S010-SPME	LDW-Y2-SC-ENR+AC-CE-S010	5/13/2019	6/24/2019	Y	42			
LDW-Y2-SC-ENR+AC-6-E-S010-SPME	LDW-Y2-SC-ENR+AC-CE-S010	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-F-S010-SPME	LDW-Y2-SC-ENR+AC-CF-S010	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-F-S010-SPME	LDW-Y2-SC-ENR+AC-CF-S010	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-3-F-S010-SPME	LDW-Y2-SC-ENR+AC-CF-S010	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-4-F-S010-SPME	LDW-Y2-SC-ENR+AC-CF-S010	5/14/2019	6/22/2019	Y	39			
LDW-Y2-SC-ENR+AC-5-F-S010-SPME	LDW-Y2-SC-ENR+AC-CF-S010	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-F-S010-SPME	LDW-Y2-SC-ENR+AC-CF-S010	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR+AC-CA/AC-CD-S010-SPME ^[1]	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010	See Note 1	See Note 1	Y	See Note 1	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR-1-A-S010-SPME	LDW-Y2-SC-ENR-CA-S010	5/15/2019	6/21/2019	Y	37	38	5/13/2019	6/21/2019
LDW-Y2-SC-ENR-2-A-S010-SPME	LDW-Y2-SC-ENR-CA-S010	5/15/2019	6/21/2019	Y	37			
LDW-Y2-SC-ENR-3-A-S010-SPME	LDW-Y2-SC-ENR-CA-S010	5/14/2019	6/21/2019	N	38			
LDW-Y2-SC-ENR-4-A-S010-SPME	LDW-Y2-SC-ENR-CA-S010	5/13/2019	6/20/2019	N	38			
LDW-Y2-SC-ENR-5-A-S010-SPME	LDW-Y2-SC-ENR-CA-S010	5/13/2019	6/20/2019	Y	38			
LDW-Y2-SC-ENR-6-A-S010-SPME	LDW-Y2-SC-ENR-CA-S010	5/13/2019	6/20/2019	Y	38			
LDW-Y2-SC-ENR-1-B-S010-SPME	LDW-Y2-SC-ENR-CB-S010	5/15/2019	6/21/2019	Y	37	38	5/13/2019	6/21/2019
LDW-Y2-SC-ENR-2-B-S010-SPME	LDW-Y2-SC-ENR-CB-S010	5/15/2019	6/21/2019	Y	37			
LDW-Y2-SC-ENR-3-B-S010-SPME	LDW-Y2-SC-ENR-CB-S010	5/13/2019	6/21/2019	N	39			
LDW-Y2-SC-ENR-4-B-S010-SPME	LDW-Y2-SC-ENR-CB-S010	5/14/2019	6/20/2019	Y	37			
LDW-Y2-SC-ENR-5-B-S010-SPME	LDW-Y2-SC-ENR-CB-S010	5/13/2019	Not retrieved	N	NA			
LDW-Y2-SC-ENR-6-B-S010-SPME	LDW-Y2-SC-ENR-CB-S010	5/13/2019	6/20/2019	Y	38			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y2-IN-ENR+AC-1-D-S010-SPME	LDW-Y2-IN-ENR+AC-CD-S010	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-D-S010-SPME	LDW-Y2-IN-ENR+AC-CD-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-D-S010-SPME	LDW-Y2-IN-ENR+AC-CD-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-D-S010-SPME	LDW-Y2-IN-ENR+AC-CD-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-D-S010-SPME	LDW-Y2-IN-ENR+AC-CD-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-6-D-S010-SPME	LDW-Y2-IN-ENR+AC-CD-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-1-E-S010-SPME	LDW-Y2-IN-ENR+AC-CE-S010	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-E-S010-SPME	LDW-Y2-IN-ENR+AC-CE-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-E-S010-SPME	LDW-Y2-IN-ENR+AC-CE-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-E-S010-SPME	LDW-Y2-IN-ENR+AC-CE-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-E-S010-SPME	LDW-Y2-IN-ENR+AC-CE-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-6-E-S010-SPME	LDW-Y2-IN-ENR+AC-CE-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-1-F-S010-SPME	LDW-Y2-IN-ENR+AC-CF-S010	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-F-S010-SPME	LDW-Y2-IN-ENR+AC-CF-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-F-S010-SPME	LDW-Y2-IN-ENR+AC-CF-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-F-S010-SPME	LDW-Y2-IN-ENR+AC-CF-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-F-S010-SPME	LDW-Y2-IN-ENR+AC-CF-S010	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-6-F-S010-SPME	LDW-Y2-IN-ENR+AC-CF-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-A-S010-SPME	LDW-Y2-IN-ENR-CA-S010	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-A-S010-SPME	LDW-Y2-IN-ENR-CA-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-A-S010-SPME	LDW-Y2-IN-ENR-CA-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-A-S010-SPME	LDW-Y2-IN-ENR-CA-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-A-S010-SPME	LDW-Y2-IN-ENR-CA-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-A-S010-SPME	LDW-Y2-IN-ENR-CA-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-B-S010-SPME	LDW-Y2-IN-ENR-CB-S010	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-B-S010-SPME	LDW-Y2-IN-ENR-CB-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-B-S010-SPME	LDW-Y2-IN-ENR-CB-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-B-S010-SPME	LDW-Y2-IN-ENR-CB-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-B-S010-SPME	LDW-Y2-IN-ENR-CB-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-6-B-S010-SPME	LDW-Y2-IN-ENR-CB-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-C-S010-SPME	LDW-Y2-IN-ENR-CC-S010	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-C-S010-SPME	LDW-Y2-IN-ENR-CC-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-C-S010-SPME	LDW-Y2-IN-ENR-CC-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-C-S010-SPME	LDW-Y2-IN-ENR-CC-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-C-S010-SPME	LDW-Y2-IN-ENR-CC-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-6-C-S010-SPME	LDW-Y2-IN-ENR-CC-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-D-S010-SPME	LDW-Y2-IN-ENR-CD-S010	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-D-S010-SPME	LDW-Y2-IN-ENR-CD-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-D-S010-SPME	LDW-Y2-IN-ENR-CD-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-D-S010-SPME	LDW-Y2-IN-ENR-CD-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-D-S010-SPME	LDW-Y2-IN-ENR-CD-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-D-S010-SPME	LDW-Y2-IN-ENR-CD-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-E-S010-SPME	LDW-Y2-IN-ENR-CE-S010	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-E-S010-SPME	LDW-Y2-IN-ENR-CE-S010	5/9/2019	Not retrieved	N	NA			
LDW-Y2-IN-ENR-3-E-S010-SPME	LDW-Y2-IN-ENR-CE-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-E-S010-SPME	LDW-Y2-IN-ENR-CE-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-E-S010-SPME	LDW-Y2-IN-ENR-CE-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-E-S010-SPME	LDW-Y2-IN-ENR-CE-S010	5/9/2019	6/18/2019	Y	40			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y2-IN-ENR-1-F-S010-SPME	LDW-Y2-IN-ENR-CF-S010	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-F-S010-SPME	LDW-Y2-IN-ENR-CF-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-F-S010-SPME	LDW-Y2-IN-ENR-CF-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-F-S010-SPME	LDW-Y2-IN-ENR-CF-S010	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-F-S010-SPME	LDW-Y2-IN-ENR-CF-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-F-S010-SPME	LDW-Y2-IN-ENR-CF-S010	5/9/2019	6/18/2019	Y	40			
LDW-Y2-SC-ENR+AC-1-A-SSWI-SPME	LDW-Y2-SC-ENR+AC-CA-SSWI	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-A-SSWI-SPME	LDW-Y2-SC-ENR+AC-CA-SSWI	5/14/2019	Not retrieved	N	NA			
LDW-Y2-SC-ENR+AC-3-A-SSWI-SPME	LDW-Y2-SC-ENR+AC-CA-SSWI	5/14/2019	6/24/2019	N	41			
LDW-Y2-SC-ENR+AC-4-A-SSWI-SPME	LDW-Y2-SC-ENR+AC-CA-SSWI	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-5-A-SSWI-SPME	LDW-Y2-SC-ENR+AC-CA-SSWI	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-A-SSWI-SPME	LDW-Y2-SC-ENR+AC-CA-SSWI	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR+AC-1-B-SSWI-SPME	LDW-Y2-SC-ENR+AC-CB-SSWI	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-B-SSWI-SPME	LDW-Y2-SC-ENR+AC-CB-SSWI	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-3-B-SSWI-SPME	LDW-Y2-SC-ENR+AC-CB-SSWI	5/14/2019	6/24/2019	N	41			
LDW-Y2-SC-ENR+AC-4-B-SSWI-SPME	LDW-Y2-SC-ENR+AC-CB-SSWI	5/14/2019	6/22/2019	Y	39			
LDW-Y2-SC-ENR+AC-5-B-SSWI-SPME	LDW-Y2-SC-ENR+AC-CB-SSWI	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-B-SSWI-SPME	LDW-Y2-SC-ENR+AC-CB-SSWI	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-C-SSWI-SPME	LDW-Y2-SC-ENR+AC-CC-SSWI	5/14/2019	6/25/2019	Y	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-C-SSWI-SPME	LDW-Y2-SC-ENR+AC-CC-SSWI	5/15/2019	6/24/2019	Y	40			
LDW-Y2-SC-ENR+AC-3-C-SSWI-SPME	LDW-Y2-SC-ENR+AC-CC-SSWI	5/14/2019	6/24/2019	Y	41			
LDW-Y2-SC-ENR+AC-4-C-SSWI-SPME	LDW-Y2-SC-ENR+AC-CC-SSWI	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-5-C-SSWI-SPME	LDW-Y2-SC-ENR+AC-CC-SSWI	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-C-SSWI-SPME	LDW-Y2-SC-ENR+AC-CC-SSWI	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-D-SSWI-SPME	LDW-Y2-SC-ENR+AC-CD-SSWI	5/14/2019	6/25/2019	N	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-D-SSWI-SPME	LDW-Y2-SC-ENR+AC-CD-SSWI	5/15/2019	6/24/2019	Y	40			
LDW-Y2-SC-ENR+AC-3-D-SSWI-SPME	LDW-Y2-SC-ENR+AC-CD-SSWI	5/14/2019	6/24/2019	N	41			
LDW-Y2-SC-ENR+AC-4-D-SSWI-SPME	LDW-Y2-SC-ENR+AC-CD-SSWI	5/14/2019	6/22/2019	N	39			
LDW-Y2-SC-ENR+AC-5-D-SSWI-SPME	LDW-Y2-SC-ENR+AC-CD-SSWI	5/13/2019	6/24/2019	Y	42			
LDW-Y2-SC-ENR+AC-6-D-SSWI-SPME	LDW-Y2-SC-ENR+AC-CD-SSWI	5/13/2019	6/22/2019	N	40			
LDW-Y2-SC-ENR+AC-1-E-SSWI-SPME	LDW-Y2-SC-ENR+AC-CE-SSWI	5/14/2019	6/25/2019	N	42	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR+AC-2-E-SSWI-SPME	LDW-Y2-SC-ENR+AC-CE-SSWI	5/14/2019	Not retrieved	N	NA			
LDW-Y2-SC-ENR+AC-3-E-SSWI-SPME	LDW-Y2-SC-ENR+AC-CE-SSWI	5/14/2019	6/24/2019	N	41			
LDW-Y2-SC-ENR+AC-4-E-SSWI-SPME	LDW-Y2-SC-ENR+AC-CE-SSWI	5/14/2019	6/22/2019	N	39			
LDW-Y2-SC-ENR+AC-5-E-SSWI-SPME	LDW-Y2-SC-ENR+AC-CE-SSWI	5/13/2019	6/24/2019	N	42			
LDW-Y2-SC-ENR+AC-6-E-SSWI-SPME	LDW-Y2-SC-ENR+AC-CE-SSWI	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI-SPME ^[2]	LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI	See Note 2	See Note 2	Y	See Note 2	41	5/13/2019	6/25/2019
LDW-Y2-SC-ENR-1-A-SSWI-SPME	LDW-Y2-SC-ENR-CA-SSWI	5/15/2019	6/21/2019	Y	37	38	5/13/2019	6/21/2019
LDW-Y2-SC-ENR-2-A-SSWI-SPME	LDW-Y2-SC-ENR-CA-SSWI	5/15/2019	6/21/2019	N	37			
LDW-Y2-SC-ENR-3-A-SSWI-SPME	LDW-Y2-SC-ENR-CA-SSWI	5/14/2019	6/21/2019	N	38			
LDW-Y2-SC-ENR-4-A-SSWI-SPME	LDW-Y2-SC-ENR-CA-SSWI	5/13/2019	6/20/2019	N	38			
LDW-Y2-SC-ENR-5-A-SSWI-SPME	LDW-Y2-SC-ENR-CA-SSWI	5/13/2019	6/20/2019	Y	38			
LDW-Y2-SC-ENR-6-A-SSWI-SPME	LDW-Y2-SC-ENR-CA-SSWI	5/13/2019	6/20/2019	Y	38			
LDW-Y2-SC-ENR-1-B-SSWI-SPME	LDW-Y2-SC-ENR-CB-SSWI	5/15/2019	6/21/2019	N	37	38	5/13/2019	6/21/2019
LDW-Y2-SC-ENR-2-B-SSWI-SPME	LDW-Y2-SC-ENR-CB-SSWI	5/15/2019	6/21/2019	Y	37			
LDW-Y2-SC-ENR-3-B-SSWI-SPME	LDW-Y2-SC-ENR-CB-SSWI	5/13/2019	6/21/2019	N	39			
LDW-Y2-SC-ENR-4-B-SSWI-SPME	LDW-Y2-SC-ENR-CB-SSWI	5/14/2019	6/20/2019	Y	37			
LDW-Y2-SC-ENR-5-B-SSWI-SPME	LDW-Y2-SC-ENR-CB-SSWI	5/13/2019	Not retrieved	N	NA			
LDW-Y2-SC-ENR-6-B-SSWI-SPME	LDW-Y2-SC-ENR-CB-SSWI	5/13/2019	6/20/2019	Y	38			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y2-SC-ENR-1-C-SSWI-SPME	LDW-Y2-SC-ENR-CC-SSWI	5/15/2019	6/21/2019	Y	37	38	5/13/2019	6/22/2019
LDW-Y2-SC-ENR-2-C-SSWI-SPME	LDW-Y2-SC-ENR-CC-SSWI	5/15/2019	6/21/2019	N	37			
LDW-Y2-SC-ENR-3-C-SSWI-SPME	LDW-Y2-SC-ENR-CC-SSWI	5/14/2019	6/21/2019	N	38			
LDW-Y2-SC-ENR-4-C-SSWI-SPME	LDW-Y2-SC-ENR-CC-SSWI	5/14/2019	6/20/2019	N	37			
LDW-Y2-SC-ENR-5-C-SSWI-SPME	LDW-Y2-SC-ENR-CC-SSWI	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR-6-C-SSWI-SPME	LDW-Y2-SC-ENR-CC-SSWI	5/13/2019	6/20/2019	N	38			
LDW-Y2-SC-ENR-1-D-SSWI-SPME	LDW-Y2-SC-ENR-CD-SSWI	5/15/2019	6/21/2019	Y	37	38	5/13/2019	6/22/2019
LDW-Y2-SC-ENR-2-D-SSWI-SPME	LDW-Y2-SC-ENR-CD-SSWI	5/15/2019	6/21/2019	Y	37			
LDW-Y2-SC-ENR-3-D-SSWI-SPME	LDW-Y2-SC-ENR-CD-SSWI	5/14/2019	6/21/2019	Y	38			
LDW-Y2-SC-ENR-4-D-SSWI-SPME	LDW-Y2-SC-ENR-CD-SSWI	5/14/2019	6/20/2019	Y	37			
LDW-Y2-SC-ENR-5-D-SSWI-SPME	LDW-Y2-SC-ENR-CD-SSWI	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR-6-D-SSWI-SPME	LDW-Y2-SC-ENR-CD-SSWI	5/13/2019	6/20/2019	Y	38			
LDW-Y2-SC-ENR-1-E-SSWI-SPME	LDW-Y2-SC-ENR-CE-SSWI	5/15/2019	6/21/2019	Y	37	38	5/13/2019	6/22/2019
LDW-Y2-SC-ENR-2-E-SSWI-SPME	LDW-Y2-SC-ENR-CE-SSWI	5/15/2019	6/21/2019	Y	37			
LDW-Y2-SC-ENR-3-E-SSWI-SPME	LDW-Y2-SC-ENR-CE-SSWI	5/14/2019	6/20/2019	Y	37			
LDW-Y2-SC-ENR-4-E-SSWI-SPME	LDW-Y2-SC-ENR-CE-SSWI	5/14/2019	6/20/2019	Y	37			
LDW-Y2-SC-ENR-5-E-SSWI-SPME	LDW-Y2-SC-ENR-CE-SSWI	5/13/2019	6/22/2019	Y	40			
LDW-Y2-SC-ENR-6-E-SSWI-SPME	LDW-Y2-SC-ENR-CE-SSWI	5/13/2019	6/20/2019	N	38			
LDW-Y2-IN-ENR+AC-1-A-SSWI-SPME	LDW-Y2-IN-ENR+AC-CA-SSWI	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-A-SSWI-SPME	LDW-Y2-IN-ENR+AC-CA-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-A-SSWI-SPME	LDW-Y2-IN-ENR+AC-CA-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-A-SSWI-SPME	LDW-Y2-IN-ENR+AC-CA-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-A-SSWI-SPME	LDW-Y2-IN-ENR+AC-CA-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-6-A-SSWI-SPME	LDW-Y2-IN-ENR+AC-CA-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-1-B-SSWI-SPME	LDW-Y2-IN-ENR+AC-CB-SSWI	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-B-SSWI-SPME	LDW-Y2-IN-ENR+AC-CB-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-B-SSWI-SPME	LDW-Y2-IN-ENR+AC-CB-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-B-SSWI-SPME	LDW-Y2-IN-ENR+AC-CB-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-B-SSWI-SPME	LDW-Y2-IN-ENR+AC-CB-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-6-B-SSWI-SPME	LDW-Y2-IN-ENR+AC-CB-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-1-C-SSWI-SPME	LDW-Y2-IN-ENR+AC-CC-SSWI	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/17/2019
LDW-Y2-IN-ENR+AC-2-C-SSWI-SPME	LDW-Y2-IN-ENR+AC-CC-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-C-SSWI-SPME	LDW-Y2-IN-ENR+AC-CC-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-C-SSWI-SPME	LDW-Y2-IN-ENR+AC-CC-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-C-SSWI-SPME	LDW-Y2-IN-ENR+AC-CC-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-6-C-SSWI-SPME	LDW-Y2-IN-ENR+AC-CC-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-1-D-SSWI-SPME	LDW-Y2-IN-ENR+AC-CD-SSWI	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-D-SSWI-SPME	LDW-Y2-IN-ENR+AC-CD-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-D-SSWI-SPME	LDW-Y2-IN-ENR+AC-CD-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-D-SSWI-SPME	LDW-Y2-IN-ENR+AC-CD-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-D-SSWI-SPME	LDW-Y2-IN-ENR+AC-CD-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-6-D-SSWI-SPME	LDW-Y2-IN-ENR+AC-CD-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR+AC-1-E-SSWI-SPME	LDW-Y2-IN-ENR+AC-CE-SSWI	5/9/2019	6/17/2019	Y	39	39	5/9/2019	6/18/2019
LDW-Y2-IN-ENR+AC-2-E-SSWI-SPME	LDW-Y2-IN-ENR+AC-CE-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-3-E-SSWI-SPME	LDW-Y2-IN-ENR+AC-CE-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-4-E-SSWI-SPME	LDW-Y2-IN-ENR+AC-CE-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-5-E-SSWI-SPME	LDW-Y2-IN-ENR+AC-CE-SSWI	5/9/2019	6/17/2019	Y	39			
LDW-Y2-IN-ENR+AC-6-E-SSWI-SPME	LDW-Y2-IN-ENR+AC-CE-SSWI	5/9/2019	6/18/2019	Y	40			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y2-IN-ENR-1-A-SSWI-SPME	LDW-Y2-IN-ENR-CA-SSWI	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-A-SSWI-SPME	LDW-Y2-IN-ENR-CA-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-A-SSWI-SPME	LDW-Y2-IN-ENR-CA-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-A-SSWI-SPME	LDW-Y2-IN-ENR-CA-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-A-SSWI-SPME	LDW-Y2-IN-ENR-CA-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-A-SSWI-SPME	LDW-Y2-IN-ENR-CA-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-B-SSWI-SPME	LDW-Y2-IN-ENR-CB-SSWI	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-B-SSWI-SPME	LDW-Y2-IN-ENR-CB-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-B-SSWI-SPME	LDW-Y2-IN-ENR-CB-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-B-SSWI-SPME	LDW-Y2-IN-ENR-CB-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-B-SSWI-SPME	LDW-Y2-IN-ENR-CB-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-6-B-SSWI-SPME	LDW-Y2-IN-ENR-CB-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-C-SSWI-SPME	LDW-Y2-IN-ENR-CC-SSWI	5/9/2019	6/18/2019	N	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-C-SSWI-SPME	LDW-Y2-IN-ENR-CC-SSWI	5/9/2019	6/18/2019	N	40			
LDW-Y2-IN-ENR-3-C-SSWI-SPME	LDW-Y2-IN-ENR-CC-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-C-SSWI-SPME	LDW-Y2-IN-ENR-CC-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-C-SSWI-SPME	LDW-Y2-IN-ENR-CC-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-6-C-SSWI-SPME	LDW-Y2-IN-ENR-CC-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-D-SSWI-SPME	LDW-Y2-IN-ENR-CD-SSWI	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-D-SSWI-SPME	LDW-Y2-IN-ENR-CD-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-3-D-SSWI-SPME	LDW-Y2-IN-ENR-CD-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-D-SSWI-SPME	LDW-Y2-IN-ENR-CD-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-D-SSWI-SPME	LDW-Y2-IN-ENR-CD-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-D-SSWI-SPME	LDW-Y2-IN-ENR-CD-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-1-E-SSWI-SPME	LDW-Y2-IN-ENR-CE-SSWI	5/9/2019	6/18/2019	Y	40	40	5/9/2019	6/19/2019
LDW-Y2-IN-ENR-2-E-SSWI-SPME	LDW-Y2-IN-ENR-CE-SSWI	5/9/2019	Not retrieved	N	NA			
LDW-Y2-IN-ENR-3-E-SSWI-SPME	LDW-Y2-IN-ENR-CE-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-4-E-SSWI-SPME	LDW-Y2-IN-ENR-CE-SSWI	5/9/2019	6/19/2019	Y	41			
LDW-Y2-IN-ENR-5-E-SSWI-SPME	LDW-Y2-IN-ENR-CE-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-IN-ENR-6-E-SSWI-SPME	LDW-Y2-IN-ENR-CE-SSWI	5/9/2019	6/18/2019	Y	40			
LDW-Y2-SC-1-S010-SPME-TB	LDW-Y2-SC-S010-TB	5/9/2019	5/9/2019	Y	0	0	5/9/2019	5/9/2019
LDW-Y2-SC-2-S010-SPME-TB	LDW-Y2-SC-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SC-3-S010-SPME-TB	LDW-Y2-SC-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SC-4-S010-SPME-TB	LDW-Y2-SC-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SC-5-S010-SPME-TB	LDW-Y2-SC-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SC-6-S010-SPME-TB	LDW-Y2-SC-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SU-1-S010-SPME-TB	LDW-Y2-SU-S010-TB	5/9/2019	5/9/2019	Y	0	0	5/9/2019	5/9/2019
LDW-Y2-SU-2-S010-SPME-TB	LDW-Y2-SU-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SU-3-S010-SPME-TB	LDW-Y2-SU-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SU-4-S010-SPME-TB	LDW-Y2-SU-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SU-5-S010-SPME-TB	LDW-Y2-SU-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-SU-6-S010-SPME-TB	LDW-Y2-SU-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-IN-1-S010-SPME-TB	LDW-Y2-IN-S010-TB	5/9/2019	5/9/2019	Y	0	0	5/9/2019	5/9/2019
LDW-Y2-IN-2-S010-SPME-TB	LDW-Y2-IN-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-IN-3-S010-SPME-TB	LDW-Y2-IN-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-IN-4-S010-SPME-TB	LDW-Y2-IN-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-IN-5-S010-SPME-TB	LDW-Y2-IN-S010-TB	5/9/2019	5/9/2019	Y	0			
LDW-Y2-IN-6-S010-SPME-TB	LDW-Y2-IN-S010-TB	5/9/2019	5/9/2019	Y	0			

Notes

[1]: Combination of 2 retrieved SPME fibers from LDW-Y2-SC-ENR+AC-CA-S010 and 2 fibers from LDW-Y2-SC-ENR+AC-CD-S010 composites. The values used for the earliest and latest sampler deployment/retrieval dates and the average exposure date are based on the averages of those values for the two composites

[2]: Combination of 2 retrieved SPME fibers from LDW-Y2-SC-ENR+AC-CA-SSWI and 2 fibers from LDW-Y2-SC-ENR+AC-CD-SSWI composites. The values used for the earliest and latest sampler deployment/retrieval dates and the average exposure date are based on the averages of those values for the two composites

TABLE A3

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010			LDW-Y2-SC-ENR+AC-CB-S010			LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		3.19	J	20		U	1.82		U	2.11	6.55	J	20
PCB-2	Mono			U	1.44		U	1.89		U	2.24		U	2.69
PCB-3	Mono			U	1.53		U	2		U	2.4		U	2.86
PCB-4	Di		67.8		20	83.2		20	87.9		20	217		20
PCB-5	Di			U	5.4		U	6.75		U	8.13		U	6.76
PCB-6	Di		48.5		20	61.5		20	68.9		20	136		20
PCB-7	Di		10.8	J	20	9.38	J	20		U	7.83	33.1		20
PCB-8	Di		256		20	277		20	311		20	706		20
PCB-9	Di		15.4	J	20	17.3	J	20		U	7.86	43.6		20
PCB-10	Di		7.15	J	20		U	7.18		U	8.66	19.6	J	20
PCB-11	Di		46.7		20	29.4		20		U	9.63	46.1		20
PCB-12	Di			U	5.81		U	7.62		U	9.19		U	7.28
PCB-13	Di			U	5.86		U	8.04		U	9.69		U	7.34
PCB-14	Di	PRC	479		20	234		20	216		20	325		20
PCB-15	Di		76		20	95.2		20	59.9		20	220		20
PCB-16	Tri		322		20	557		20	283		20	729		20
PCB-17	Tri		373		20	703		20	404		20	1060		20
PCB-18	Tri		932		20	1650		20	967		20	2470		20
PCB-19	Tri		108		20	123		20	110		20	246		20
PCB-20	Tri		449	C	20	953	C	20	521	C	20	1600	C	20
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		219		20	462		20	268		20	737		20
PCB-23	Tri			U	2.24	4.63	J	20		U	4.48	7.55	J	20
PCB-24	Tri		47.3		20	80.2		20	46.3		20	132		20
PCB-25	Tri		74.2		20	143		20	90		20	245		20
PCB-26	Tri		136		20	269		20	153		20	435		20
PCB-27	Tri		41.4		20	61.5		20	48.6		20	100		20
PCB-28	Tri		581		20	1230		20	775		20	2040		20
PCB-29	Tri		7.58	J	20	15.7	J	20	8.17	J	20	25.3		20
PCB-30	Tri			U	1.66		U	1.9		U	2.35		U	2.57
PCB-31	Tri		572		20	1230		20	661		20	2290		20
PCB-32	Tri		256		20	445		20	328		20	752		20
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		4.5	J	20	7.49	J	20		U	4.53	11.6	J	20
PCB-35	Tri		9.13	J	20	17.9	J	20	12.7	J	20	26.2		20
PCB-36	Tri	PRC	545		20	510		20	365		20	492		20
PCB-37	Tri		121		20	202		20	134		20	432		20
PCB-38	Tri			U	2.29	5.94	J	20		U	4.88	10.6	J	20
PCB-39	Tri			U	2.35		U	2.05		U	4.88		U	3.3
PCB-40	Tetra		127		20	171		20	129		20	317		20
PCB-41	Tetra		546	C	20	682	C	20	522	C	20	1310	C	20
PCB-42	Tetra		255	C	20	320	C	20	257	C	20	623	C	20
PCB-43	Tetra		575	C	20	687	C	20	568	C	20	1350	C	20
PCB-44	Tetra		616		20	780		20	583		20	1500		20
PCB-45	Tetra		172		20	259		20	175		20	445		20
PCB-46	Tetra		67.6		20	109		20	73		20	171		20
PCB-47	Tetra		202		20	225		20	203		20	452		20
PCB-48	Tetra		157	C	20	217	C	20	151	C	20	415	C	20
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		7.96	J	20	9.68	J	20	6.3	J	20	14.2	J	20
PCB-51	Tetra		53.2		20	76		20	51.2		20	127		20
PCB-52	Tetra		737	C	20	887	C	20	711	C	20	1690	C	20
PCB-53	Tetra		155		20	221		20	153		20	399		20
PCB-54	Tetra		5.27	J	20	8.05	J	20	4.94	J	20	10.7	J	20
PCB-55	Tetra		45.9		20	45.1		20	38.2		20	73.3		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010			LDW-Y2-SC-ENR-CE-S010			LDW-Y2-SU-ENR+AC-CA-S010			LDW-Y2-SU-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		9.23	J	20	14.1	J	20	12.4	J	20	18.9	J	20
PCB-2	Mono			U	1.87		U	2.02		U	3.66		U	3.68
PCB-3	Mono		4.15	J	20	5.86	J	20		U	3.99		U	3.84
PCB-4	Di		251		20	453		20	383		20	406		20
PCB-5	Di			U	7.78		U	8.7		U	9.54		U	6.82
PCB-6	Di		134		20	265		20	248		20	262		20
PCB-7	Di		30.7		20	57.3		20	55.1		20	34.4		20
PCB-8	Di		716		20	1420		20	968		20	756		20
PCB-9	Di		46.1		20	83		20	65.9		20	55.2		20
PCB-10	Di		29.9		20	34.5		20	37.1		20	26.6		20
PCB-11	Di		53.2		20	66.2		20	86.1		20	46.1		20
PCB-12	Di		15.6	J	20	21.7		20	19.5	J	20	19.1	J	20
PCB-13	Di		16.5	J	20	21		20	21.1		20	14.3	J	20
PCB-14	Di	PRC	422		20	573		20	482		20	442		20
PCB-15	Di		248		20	372		20	262		20	154		20
PCB-16	Tri		815		20	1040		20	1870		20	925		20
PCB-17	Tri		927		20	1450		20	2990		20	1640		20
PCB-18	Tri		2250		20	3680		20	7110		20	3900		20
PCB-19	Tri		308		20	487		20	526		20	414		20
PCB-20	Tri		1130	C	20	1400	C	20	3550	C	20	1330	C	20
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		563		20	667		20	1780		20	654		20
PCB-23	Tri		4.13	J	20		U	2.6	11.8	J	20		U	6.25
PCB-24	Tri		138		20	200		20	262		20	168		20
PCB-25	Tri		201		20	234		20	576		20	333		20
PCB-26	Tri		338		20	424		20	1150		20	602		20
PCB-27	Tri		109		20	148		20	270		20	148		20
PCB-28	Tri		1580		20	1920		20	4660		20	1930		20
PCB-29	Tri		16	J	20	20.8		20	59.6		20	18.5	J	20
PCB-30	Tri			U	1.84		U	1.82		U	4.05		U	2.06
PCB-31	Tri		1750		20	2100		20	5600		20	2280		20
PCB-32	Tri		631		20	1050		20	1950		20	1190		20
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		9.68	J	20	11.7	J	20	40.7		20	25.7		20
PCB-35	Tri		19.1	J	20	23.3		20	34.1		20	16.8	J	20
PCB-36	Tri	PRC	573		20	698		20	672		20	632		20
PCB-37	Tri		322		20	351		20	803		20	287		20
PCB-38	Tri		10.1	J	20	12.4	J	20	31.8		20	16.7	J	20
PCB-39	Tri			U	2.23		U	2.72		U	5.71		U	6.95
PCB-40	Tetra		308		20	315		20	1200		20	587		20
PCB-41	Tetra		1270	C	20	1350	C	20	5330	C	20	2650	C	20
PCB-42	Tetra		617	C	20	646	C	20	2390	C	20	1230	C	20
PCB-43	Tetra		1380	C	20	1440	C	20	5300	C	20	3350	C	20
PCB-44	Tetra		1480		20	1550		20	6220		20	3410		20
PCB-45	Tetra		438		20	485		20	1520		20	751		20
PCB-46	Tetra		182		20	187		20	652		20	309		20
PCB-47	Tetra		480		20	486		20	1710		20	1030		20
PCB-48	Tetra		373	C	20	412	C	20	1600	C	20	774	C	20
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		12.5	J	20	15.9	J	20	31.2		20	22.6		20
PCB-51	Tetra		128		20	140		20	427		20	218		20
PCB-52	Tetra		1720	C	20	1860	C	20	7100	C	20	4750	C	20
PCB-53	Tetra		407		20	448		20	1360		20	723		20
PCB-54	Tetra		11.5	J	20	13.9	J	20	23.8		20	15.8	J	20
PCB-55	Tetra		84.6		20	87.4		20	170		20	91.7		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		20.9		20	16.9	J	20	35.2		20	14.5	J	20
PCB-2	Mono			U	3.73		U	1.56	4.86	J	20		U	1.95
PCB-3	Mono			U	4.13	5.15	J	20	8.25	J	20	5.71	J	20
PCB-4	Di		1150		20	483		20	1140		20	488		20
PCB-5	Di			U	8.51		U	5.45		U	7.31		U	6.04
PCB-6	Di		486		20	273		20	1220		20	260		20
PCB-7	Di		95.8		20	44.8		20	110		20	49.5		20
PCB-8	Di		1610		20	1260		20	2530		20	1110		20
PCB-9	Di		96.6		20	70.8		20	178		20	55.6		20
PCB-10	Di		73.6		20	32.1		20	93.7		20	28.8		20
PCB-11	Di		66.7		20	102		20	115		20	84.6		20
PCB-12	Di		15.7	J	20	27.2		20	63.1		20	21.1		20
PCB-13	Di		25.9		20	21.2		20	65.3		20	29.9		20
PCB-14	Di	PRC	388		20	651		20	567		20	706		20
PCB-15	Di		156		20	337		20	478		20	315		20
PCB-16	Tri		2800		20	1290		20	3040		20	1400		20
PCB-17	Tri		4160		20	1920		20	5050		20	1890		20
PCB-18	Tri		10900		20	4830		20	12100		20	4540		20
PCB-19	Tri		1130		20	571		20	1070		20	493		20
PCB-20	Tri		3280	C	20	1980	C	20	4070	C	20	2130	C	20
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		1570		20	964		20	2090		20	1090		20
PCB-23	Tri		13.7	J	20	6.28	J	20	17.8	J	20	7.24	J	20
PCB-24	Tri		382		20	242		20	416		20	176		20
PCB-25	Tri		624		20	363		20	1140		20	379		20
PCB-26	Tri		1280		20	668		20	2240		20	701		20
PCB-27	Tri		371		20	181		20	451		20	216		20
PCB-28	Tri		4280		20	2750		20	5890		20	3200		20
PCB-29	Tri		46.9		20	27.2		20	55.3		20	32.8		20
PCB-30	Tri			U	3.78		U	2.61		U	2.09		U	2.29
PCB-31	Tri		5570		20	3200		20	7600		20	3120		20
PCB-32	Tri		2740		20	1510		20	3280		20	1360		20
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		52.8		20	21.2		20	89.3		20	26.4		20
PCB-35	Tri		34.7		20	31.1		20	53.6		20	39		20
PCB-36	Tri	PRC	558		20	755		20	643		20	770		20
PCB-37	Tri		546		20	504		20	866		20	577		20
PCB-38	Tri		41.4		20	20.5		20	41.4		20	16.3	J	20
PCB-39	Tri			U	6.94		U	2.21		U	5.79		U	2.97
PCB-40	Tetra		1300		20	651		20	1530		20	656		20
PCB-41	Tetra		5870	C	20	2940	C	20	6980	C	20	2790	C	20
PCB-42	Tetra		2590	C	20	1340	C	20	3130	C	20	1240	C	20
PCB-43	Tetra		7190	C	20	3280	C	20	8260	C	20	3060	C	20
PCB-44	Tetra		8150		20	3550		20	8790		20	3490		20
PCB-45	Tetra		1720		20	835		20	1940		20	816		20
PCB-46	Tetra		701		20	350		20	794		20	324		20
PCB-47	Tetra		2210		20	1160		20	2610		20	1010		20
PCB-48	Tetra		1590	C	20	797	C	20	1890	C	20	784	C	20
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		47.3		20	24.7		20	55.9		20	26		20
PCB-51	Tetra		475		20	231		20	535		20	229		20
PCB-52	Tetra		12100	C	20	4550	C	20	11300	C	20	4140	C	20
PCB-53	Tetra		1660		20	767		20	1830		20	729		20
PCB-54	Tetra		36.6		20	16.9	J	20	41.5		20	20.9		20
PCB-55	Tetra		163		20	112		20	165		20	99.5		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB			LDW-Y2-IN-ENR+AC-CA-S010			LDW-Y2-IN-ENR+AC-CB-S010			LDW-Y2-IN-ENR+AC-CC-S010			LDW-Y2-IN-ENR-CA-S010				
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL		
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)		
PCB-1	Mono			U	17.6		U	544		U	2.16		U	2.28		U	2.27		
PCB-2	Mono			U	13.1		U	93.7		U	2.27		U	2.41		U	2.55		
PCB-3	Mono			U	11.4		U	63.7		U	2.46		U	2.63		U	2.94		
PCB-4	Di			U	39.8		U	623	23.6		20	20.5		20	39.8		20		
PCB-5	Di			U	13.5		U	10.4			U	7.84		U	7.51		U	7.19	
PCB-6	Di			U	13.1		U	10.1	18.8		J	20	16.8		J	20	26	20	
PCB-7	Di			U	13.4		U	10.3			U	7.77		U	7.44		U	7.12	
PCB-8	Di			U	14.3	19.3		J	20	45.9		20	38.5		20	52.6		20	
PCB-9	Di			U	14			U	10.7			U	8.09		U	7.74		U	7.41
PCB-10	Di			U	15.3			U	11.7			U	8.85		U	8.47		U	8.11
PCB-11	Di		110		20	35.4		20	32.8		20	34.7		20	32		20		20
PCB-12	Di			U	14.7			U	11.3			U	8.54		U	8.17		U	7.82
PCB-13	Di			U	15			U	11.5			U	8.7		U	8.33		U	7.97
PCB-14	Di	PRC	886		20	135		20	227		20	197		20	146		20		20
PCB-15	Di			U	11.1	13.4		J	20	18		J	20	15		J	20	29.3	20
PCB-16	Tri		9.19		J	20	91.2		20	44.1		20	31.8		20	34.9		20	20
PCB-17	Tri		15.4		J	20	171		20	73.9		20	58.2		20	73.6		20	20
PCB-18	Tri		30			20	336		20	174		20	140		20	154		20	20
PCB-19	Tri				U	7.9	16.4		J	20	25.5		20	20.3		20	25.7		20
PCB-20	Tri		7.04		C,J	20	43.9		C	20	73.1		C	20	68.8		C	20	20
PCB-21	Tri				C020				C020						C020				C020
PCB-22	Tri				U	2.58	27.6		20	43		20	41.6		20	43.8		20	20
PCB-23	Tri				U	2.65			U	2.75		U	5.55		U	4.86		U	8.25
PCB-24	Tri				U	5.44	33.3		20	12.3		J	20	9.84		J	20	12.3	20
PCB-25	Tri				U	2.7	15.8		J	20	34.6		20	29.9		20	35.1		20
PCB-26	Tri				U	2.58	28.3		20	72.6		20	59.3		20	72.2		20	20
PCB-27	Tri				U	5.42	21.7		20	11.4		J	20	9.22		J	20	13.8	20
PCB-28	Tri		8.04		J	20	81.4		20	149		20	148		20	169		20	20
PCB-29	Tri				U	2.53			U	2.64		U	5.31		U	4.66		U	7.9
PCB-30	Tri				U	5.25			U	6.92		U	2.02		U	2.79		U	2.83
PCB-31	Tri		9.15		J	20	79.1		20	152		20	172		20	140		20	20
PCB-32	Tri		13		J	20	124		20	44.6		20	42.3		20	41		20	20
PCB-33	Tri				C020				C020						C020				C020
PCB-34	Tri				U	2.61			U	2.71		U	5.47		U	4.79		U	8.13
PCB-35	Tri				U	3.07			U	3.2		U	6.44		U	5.64		U	9.58
PCB-36	Tri	PRC	1030		20	340		20	565		20	533		20	363		20		20
PCB-37	Tri				U	2.91	21.4		20	24.4		20	26.7		20	27.3		20	20
PCB-38	Tri				U	2.85			U	2.96		U	5.97		U	5.23		U	8.88
PCB-39	Tri				U	2.81			U	2.92		U	5.89		U	5.16		U	8.76
PCB-40	Tetra		9.23		J	20	83.5		20	46.9		20	39.1		20	46.4		20	20
PCB-41	Tetra		25.5		C	20	472		C	20	243		C	20	222		C	20	20
PCB-42	Tetra		11.6		C,J	20	196		C	20	113		C	20	105		C	20	20
PCB-43	Tetra		25.1		C	20	667		C	20	398		C	20	381		C	20	20
PCB-44	Tetra		40.5			20	608		20	358		20	287		20	320		20	20
PCB-45	Tetra		6.96		J	20	69		20	48		20	48.8		20	51		20	20
PCB-46	Tetra				U	2.71	24.7		20	19.6		J	20	19		J	20	19	20
PCB-47	Tetra		68.4			20	233		20	122		20	103		20	125		20	20
PCB-48	Tetra		10.6		C,J	20	120		C	20	58.6		C	20	54.6		C	20	20
PCB-49	Tetra				C043				C043						C043				C043
PCB-50	Tetra		9.36		J	20	10.4		J	20	9.43		J	20	7.82		J	20	20
PCB-51	Tetra		14.9		J	20	25.8		20	19.3		J	20	18.5		J	20	17.6	20
PCB-52	Tetra		56.1		C	20	1120		C	20	784		C	20	674		C	20	20
PCB-53	Tetra		5.29		J	20	81.3		20	67.9		20	56.6		20	67.6		20	20
PCB-54	Tetra				U	1.71			U	2.34		U	2.54		U	2.83		U	2.69
PCB-55	Tetra		141		20	137		20	36		20	39.1		20	39.8		20		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-S010			LDW-Y2-IN-ENR-CE-S010			LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI			LDW-Y2-SC-ENR+AC-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		6.74	J	20		U	2.7	J	20		U	2.79	
PCB-2	Mono			U	2.21		U	3.03	U	2.3		U	2.99	
PCB-3	Mono		8.36	J	20		U	3.2	U	2.54		U	3.19	
PCB-4	Di		57.5		20	23.6		20	97.5		20	94.8	20	
PCB-5	Di			U	7.14		U	7.58	U	9.04		U	4.54	
PCB-6	Di		81.9		20	18.1		20	72.2		20	56.2	20	
PCB-7	Di			U	7.08		U	7.47	U	8.86	11	J	20	
PCB-8	Di		93.1		20	36.1		20	281		20	283	20	
PCB-9	Di			U	7.36		U	7.46	U	8.63	14.3	J	20	
PCB-10	Di			U	8.06	18.7		20		U	9.46	7.66	J	20
PCB-11	Di		26.6		20	25		20	34.2		20	21.8	20	
PCB-12	Di			U	7.78		U	8.17	U	9.8	7.05	J	20	
PCB-13	Di		19.9	J	20		U	8.23	U	10.3	6.03	J	20	
PCB-14	Di	PRC	274		20	141		20	324		20	164	20	
PCB-15	Di		46.7		20	24		20	101		20	83	20	
PCB-16	Tri		39.6		20	47.8		20	356		20	332	20	
PCB-17	Tri		80.9		20	58.4		20	391		20	362	20	
PCB-18	Tri		199		20	144		20	895		20	913	20	
PCB-19	Tri		28.4		20	20.5		20	132		20	115	20	
PCB-20	Tri		69.3	C	20	61.2	C	20	498	C	20	448	C	20
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		41.1		20	39.9		20	267		20	231	20	
PCB-23	Tri			U	7.28		U	6.79	U	2.84		U	5.83	
PCB-24	Tri		17.3	J	20	7.59	J	20	67		20	45.6	20	
PCB-25	Tri		48.2		20	32.8		20	88.7		20	73.4	20	
PCB-26	Tri		100		20	68.4		20	142		20	121	20	
PCB-27	Tri		13.2	J	20	13.2	J	20	36.2		20	41.9	20	
PCB-28	Tri		174		20	133		20	738		20	621	20	
PCB-29	Tri			U	6.98		U	6.75	6.17	J	20		U	6.05
PCB-30	Tri			U	2.19		U	4.01		U	2.9		U	2.43
PCB-31	Tri		160		20	120		20	647		20	553	20	
PCB-32	Tri		54.4		20	27.8		20	316		20	246	20	
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri			U	7.18		U	6.82	4.02	J	20		U	6.95
PCB-35	Tri			U	8.46		U	7.86	12.7	J	20		U	7.63
PCB-36	Tri	PRC	599		20	328		20	425		20	247	20	
PCB-37	Tri		26.8		20	27.3		20	156		20	116	20	
PCB-38	Tri			U	7.84		U	6.93		U	3.29		U	6.74
PCB-39	Tri			U	7.73		U	7.11		U	3.3		U	6.76
PCB-40	Tetra		36.7		20	50.2		20	156		20	108	20	
PCB-41	Tetra		199	C	20	252	C	20	623	C	20	454	C	20
PCB-42	Tetra		96.5	C	20	100	C	20	303	C	20	205	C	20
PCB-43	Tetra		342	C	20	408	C	20	645	C	20	481	C	20
PCB-44	Tetra		302		20	423		20	707		20	537	20	
PCB-45	Tetra		46.9		20	44.9		20	189		20	155	20	
PCB-46	Tetra		15.9	J	20	21.4		20	77		20	64.3	20	
PCB-47	Tetra		110		20	114		20	237		20	161	20	
PCB-48	Tetra		49.7	C	20	56.7	C	20	168	C	20	142	C	20
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		7.45	J	20		U	5.8	7.04	J	20	6.4	J	20
PCB-51	Tetra		14.6	J	20	14.6	J	20	58		20	40	20	
PCB-52	Tetra		616	C	20	913	C	20	771	C	20	593	C	20
PCB-53	Tetra		64.3		20	62.8		20	176		20	139	20	
PCB-54	Tetra			U	2.11		U	4.41	5.46	J	20	4.9	J	20
PCB-55	Tetra		45.6		20	42.6		20	38.5		20	20	20	

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CC-SSWI			LDW-Y2-SC-ENR-CC-SSWI			LDW-Y2-SC-ENR-CD-SSWI			LDW-Y2-SC-ENR-CE-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		5.43	J	20	6.8	J	20	17.8	J	20	23.6		20
PCB-2	Mono			U	2.53		U	2.21		U	2.23		U	2.37
PCB-3	Mono			U	2.69		U	2.39	6.3	J	20	7.81	J	20
PCB-4	Di		143		20	176		20	417		20	517		20
PCB-5	Di			U	6.37		U	8.48		U	9.47		U	8.99
PCB-6	Di		84.5		20	87.8		20	210		20	262		20
PCB-7	Di		12.3	J	20	25.7		20	41.2		20	47.7		20
PCB-8	Di		376		20	401		20	1010		20	1210		20
PCB-9	Di		27		20	25.7		20	58.6		20	66.5		20
PCB-10	Di		13	J	20	16.9	J	20	30.4		20	39.1		20
PCB-11	Di		41		20		U	9.41	66.4		20	80.6		20
PCB-12	Di		8.48	J	20		U	9.2	23.9		20	31.4		20
PCB-13	Di		8.13	J	20		U	9.62	16.9	J	20	23.7		20
PCB-14	Di	PRC	374		20	92.3		20	513		20	728		20
PCB-15	Di		113		20	92.9		20	290		20	424		20
PCB-16	Tri		346		20	286		20	706		20	986		20
PCB-17	Tri		446		20	391		20	991		20	1300		20
PCB-18	Tri		1090		20	959		20	2330		20	3300		20
PCB-19	Tri		136		20	137		20	374		20	500		20
PCB-20	Tri		579	C	20	469	C	20	1200	C	20	1560	C	20
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		296		20	241		20	636		20	812		20
PCB-23	Tri			U	4.12		U	2.87	4.44	J	20	4.24	J	20
PCB-24	Tri		66.9		20	52.5		20	145		20	195		20
PCB-25	Tri		95.5		20	85.8		20	217		20	264		20
PCB-26	Tri		163		20	137		20	368		20	454		20
PCB-27	Tri		37.6		20	43.3		20	117		20	175		20
PCB-28	Tri		777		20	709		20	1940		20	2320		20
PCB-29	Tri		7.52	J	20	6.96	J	20	16.9	J	20	20.1		20
PCB-30	Tri			U	2.49		U	2.27		U	2.3		U	2.47
PCB-31	Tri		833		20	641		20	1650		20	2070		20
PCB-32	Tri		339		20	311		20	829		20	1090		20
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri		6.23	J	20	6.38	J	20	13.6	J	20	14.8	J	20
PCB-35	Tri			U	5.4	7.96	J	20	20.6		20	28.6		20
PCB-36	Tri	PRC	493		20	166		20	660		20	861		20
PCB-37	Tri		139		20	108		20	345		20	407		20
PCB-38	Tri			U	4.77		U	3.32	8.49	J	20	9.57	J	20
PCB-39	Tri			U	4.78		U	3.33	6.61	J	20	5.77	J	20
PCB-40	Tetra		126		20	102		20	301		20	311		20
PCB-41	Tetra		505	C	20	434	C	20	1190	C	20	1220	C	20
PCB-42	Tetra		229	C	20	205	C	20	564	C	20	567	C	20
PCB-43	Tetra		510	C	20	464	C	20	1220	C	20	1240	C	20
PCB-44	Tetra		567		20	492		20	1320		20	1360		20
PCB-45	Tetra		165		20	145		20	407		20	447		20
PCB-46	Tetra		70.7		20	57.7		20	165		20	195		20
PCB-47	Tetra		176		20	161		20	407		20	412		20
PCB-48	Tetra		148	C	20	138	C	20	343	C	20	364	C	20
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		7.34	J	20	4.64	J	20	13.4	J	20	15.3	J	20
PCB-51	Tetra		48.4		20	43.9		20	123		20	133		20
PCB-52	Tetra		649	C	20	592	C	20	1500	C	20	1520	C	20
PCB-53	Tetra		153		20	139		20	387		20	428		20
PCB-54	Tetra		5.43	J	20	4.23	J	20	11.2	J	20	13	J	20
PCB-55	Tetra		36.1		20	22.6		20	70.5		20	74.5		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CA-SSWI			LDW-Y2-IN-ENR+AC-CB-SSWI			LDW-Y2-IN-ENR+AC-CC-SSWI			LDW-Y2-IN-ENR-CA-SSWI			LDW-Y2-IN-ENR-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	3.72		U	3.7		U	3.18		U	3.64		U	2.27
PCB-2	Mono			U	4.08		U	4.08		U	3.57		U	4.56		U	2.35
PCB-3	Mono			U	4.22		U	4.26		U	3.77		U	4.95		U	2.46
PCB-4	Di		33.6		20	38.2		20	36.1		20	47.9		20	44.5		20
PCB-5	Di			U	4.92		U	6.5		U	7.64		U	8.58		U	7.64
PCB-6	Di		20.9		20	24.2		20	23.5		20	40		20	32.5		20
PCB-7	Di			U	4.84		U	6.4		U	7.52		U	8.45		U	7.35
PCB-8	Di		59.5		20	63.5		20	73		20	72.6		20	71.8		20
PCB-9	Di			U	4.84		U	6.39		U	7.51		U	8.44		U	7.38
PCB-10	Di			U	5.08		U	6.71		U	7.88		U	8.86		U	8.13
PCB-11	Di		50.1		20	52.6		20	45		20	38.6		20	39.4		20
PCB-12	Di			U	5.3		U	7		U	8.23		U	9.24		U	8.63
PCB-13	Di			U	5.34		U	7.05		U	8.29		U	9.32		U	9.1
PCB-14	Di	PRC	216		20	433		20	221		20	217		20	260		20
PCB-15	Di		30.5		20	33		20	35.2		20	38		20	34		20
PCB-16	Tri		46.5		20	75.8		20	70		20	68.4		20	62.4		20
PCB-17	Tri		86.6		20	96.2		20	113		20	108		20	117		20
PCB-18	Tri		210		20	233		20	266		20	261		20	299		20
PCB-19	Tri		25.1		20	28.1		20	32.5		20	32.2		20	39.2		20
PCB-20	Tri		86.2	C	20	85.9	C	20	124	C	20	115	C	20	107	C	20
PCB-21	Tri			C020			C020			C020			C020			C020	
PCB-22	Tri		52.2		20	50		20	68.8		20	65.3		20	70		20
PCB-23	Tri			U	6.68		U	8.53		U	7.57		U	3.6		U	3.34
PCB-24	Tri		15	J	20	14.5	J	20	17.2	J	20	20.9		20	22		20
PCB-25	Tri		33.7		20	39.8		20	44		20	55.9		20	51		20
PCB-26	Tri		70.5		20	83.2		20	81.6		20	108		20	103		20
PCB-27	Tri		13.3	J	20	15.2	J	20	14.6	J	20	15	J	20	19.1	J	20
PCB-28	Tri		163		20	167		20	202		20	234		20	219		20
PCB-29	Tri			U	6.64		U	8.48		U	7.52		U	3.58		U	3.47
PCB-30	Tri			U	1.87		U	2.35		U	2.07		U	2.32		U	2.4
PCB-31	Tri		183		20	181		20	218		20	223		20	248		20
PCB-32	Tri		52.3		20	40.6		20	66.2		20	56.4		20	79.5		20
PCB-33	Tri			C020			C020			C020			C020			C020	
PCB-34	Tri			U	6.71		U	8.57		U	7.6		U	3.62		U	3.37
PCB-35	Tri			U	7.73		U	9.87		U	8.76		U	4.17		U	3.98
PCB-36	Tri	PRC	449		20	660		20	504		20	474		20	632		20
PCB-37	Tri		31.9		20	30.8		20	37.4		20	40.5		20	37.6		20
PCB-38	Tri			U	6.81		U	8.7		U	7.72		U	3.68		U	3.64
PCB-39	Tri			U	6.99		U	8.93		U	7.92		U	3.77		U	3.64
PCB-40	Tetra		48.2		20	47.1		20	55.9		20	53.5		20	53.8		20
PCB-41	Tetra		247	C	20	241	C	20	282	C	20	292	C	20	280	C	20
PCB-42	Tetra		108	C	20	104	C	20	133	C	20	131	C	20	135	C	20
PCB-43	Tetra		391	C	20	393	C	20	449	C	20	484	C	20	473	C	20
PCB-44	Tetra		337		20	348		20	410		20	398		20	398		20
PCB-45	Tetra		51.9		20	52		20	61.2		20	63.3		20	60.7		20
PCB-46	Tetra		20.2		20	17.3	J	20	25.8		20	23.5		20	25.1		20
PCB-47	Tetra		122		20	122		20	145		20	148		20	158		20
PCB-48	Tetra		67	C	20	60.8	C	20	74.9	C	20	79.2	C	20	78.6	C	20
PCB-49	Tetra			C043			C043			C043			C043			C043	
PCB-50	Tetra		6.49	J	20	7.58	J	20	6.32	J	20	9.28	J	20	7.03	J	20
PCB-51	Tetra		18.6	J	20	19.3	J	20	24.7		20	23.2		20	22.2		20
PCB-52	Tetra		675	C	20	681	C	20	771	C	20	806	C	20	831	C	20
PCB-53	Tetra		65.3		20	64.1		20	73.1		20	76.3		20	76.4		20
PCB-54	Tetra			U	1.82		U	2.14		U	2.37		U	2.18		U	2.4
PCB-55	Tetra		45.2		20	55.1		20	46.3		20	56.3		20	40.8		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CE-SSWI			LDW-Y2-SC-S010-TB			LDW-Y2-SU-S010-TB			LDW-Y2-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		5.31	J	20		U	2.58		U	1.35		U	1.51
PCB-2	Mono			U	1.98		U	2.83		U	1.51		U	1.7
PCB-3	Mono			U	2.11		U	2.99		U	1.63		U	1.86
PCB-4	Di		45.3		20		U	7.03		U	6		U	6.92
PCB-5	Di			U	6.77		U	5.19		U	4.79		U	4.97
PCB-6	Di		27		20		U	5.05		U	4.67		U	4.84
PCB-7	Di			U	6.51		U	5.28		U	4.88		U	5.06
PCB-8	Di		64		20	13.7	J	20		U	5.13		U	5.32
PCB-9	Di			U	6.53		U	5.22		U	4.82		U	4.99
PCB-10	Di			U	7.2		U	5.33		U	4.93		U	5.11
PCB-11	Di		25.1		20	232		20	54.2		20	53.5		20
PCB-12	Di			U	7.65		U	5.88		U	5.43		U	5.63
PCB-13	Di			U	8.06		U	6.05		U	5.59		U	5.79
PCB-14	Di	PRC	165		20	1510		20	1330		20	1100		20
PCB-15	Di		31.6		20		U	6.17		U	6.03		U	5.81
PCB-16	Tri		55.3		20	5.49	J	20		U	2.79		U	2.24
PCB-17	Tri		86.1		20	7.53	J	20		U	3.03		U	2.44
PCB-18	Tri		202		20	18.3	J	20	6.72	J	20	8.97	J	20
PCB-19	Tri		24		20	4.24	J	20		U	3.3		U	2.66
PCB-20	Tri		86.3	C	20	8.85	C,J	20		UC	20		UC	20
PCB-21	Tri			C020			C020			C020			C020	
PCB-22	Tri		55.2		20		U	2.71		U	2.5		U	2.87
PCB-23	Tri			U	7.7		U	2.72		U	2.52		U	2.88
PCB-24	Tri		14.1	J	20		U	1.48		U	2.29		U	1.84
PCB-25	Tri		42.9		20		U	3.02		U	2.79		U	3.2
PCB-26	Tri		85.7		20		U	3.01		U	2.78		U	3.19
PCB-27	Tri		12	J	20		U	1.54		U	2.38		U	1.91
PCB-28	Tri		193		20	10.3	J	20		U	2.19		U	2.51
PCB-29	Tri			U	7.99		U	2.84		U	2.63		U	3.01
PCB-30	Tri			U	1.88		U	1.46		U	2.26		U	1.82
PCB-31	Tri		170		20	10.6	J	20		U	2.94		U	3.37
PCB-32	Tri		45.8		20	5.29	J	20		U	2.63		U	2.11
PCB-33	Tri			C020			C020			C020			C020	
PCB-34	Tri			U	7.77		U	3.08		U	2.84		U	3.26
PCB-35	Tri			U	9.16		U	3.32		U	3.07		U	3.52
PCB-36	Tri	PRC	386		20	1190		20	1080		20	814		20
PCB-37	Tri		32		20		U	3.14		U	2.9		U	3.32
PCB-38	Tri			U	8.38		U	2.99		U	2.76		U	3.17
PCB-39	Tri			U	8.38		U	3.03		U	2.8		U	3.21
PCB-40	Tetra		41.6		20		U	3.42		U	3.55		U	3.31
PCB-41	Tetra		260	C	20	8.09	C,J	20		UC	20	7.18	C,J	20
PCB-42	Tetra		111	C	20		UC	20		UC	20		UC	20
PCB-43	Tetra		411	C	20	8.52	C,J	20	4.83	C,J	20	7.4	C,J	20
PCB-44	Tetra		395		20	9.73	J	20		U	3.35	9.69	J	20
PCB-45	Tetra		44.5		20		U	2.84		U	2.95	5.98	J	20
PCB-46	Tetra		18	J	20		U	3.01		U	3.12		U	2.91
PCB-47	Tetra		123		20	14.1	J	20	6.74	J	20	6.41	J	20
PCB-48	Tetra		64	C	20		UC	20		UC	20	5.63	C,J	20
PCB-49	Tetra			C043			C043			C043			C043	
PCB-50	Tetra		6.19	J	20	7.45	J	20	7.9	J	20	6.33	J	20
PCB-51	Tetra		16.3	J	20	7.58	J	20	4.69	J	20	4.54	J	20
PCB-52	Tetra		837	C	20	15	C,J	20	7.24	C,J	20	8.99	C,J	20
PCB-53	Tetra		63.8		20		U	2.48		U	2.57		U	2.4
PCB-54	Tetra			U	2.74		U	1.8		U	1.87		U	1.74
PCB-55	Tetra		39.9		20	46.4		20	46.4		20	36.3		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010			LDW-Y2-SC-ENR+AC-CB-S010			LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		283	C	20	317	C	20	290	C	20	768	C	20
PCB-57	Tetra		6.22	J	20	5.76	J	20	4.55	J	20	11	J	20
PCB-58	Tetra			U	2.24		U	2.85		U	2.18	5.11	J	20
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		515	C	20	521	C	20	475	C	20	1140	C	20
PCB-62	Tetra			U	2.31		U	2.59		U	1.98		U	2.69
PCB-63	Tetra		19.9	J	20	21.8	J	20	20.5	J	20	48.9	J	20
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	2.47		U	2.84		U	2.17		U	2.87
PCB-66	Tetra		443	C	20	465	C	20	423	C	20	981	C	20
PCB-67	Tetra		21.5		20	22.2		20	21.2		20	50.8		20
PCB-68	Tetra		13.6	J	20	16.9	J	20	10.6	J	20	19.6	J	20
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		19	J	20	17.9	J	20	16.8	J	20	39.4		20
PCB-74	Tetra		229		20	247		20	220		20	541		20
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		26.3		20	29.6		20	26.3		20	64.9		20
PCB-78	Tetra	PRC	1610		20	1540		20	1240		20	1630		20
PCB-79	Tetra		7.12	J	20	7.26	J	20	7.95	J	20	11.5	J	20
PCB-80	Tetra			U	2.06		U	2.42		U	1.85		U	2.39
PCB-81	Tetra		18.1	J	20	20.7	J	20	21.1	J	20	32.5	J	20
PCB-82	Penta		54.5		20	43.1		20	45.2		20	110		20
PCB-83	Penta		23.6	C	20	21.2	C	20	22.7	C	20	43.4	C	20
PCB-84	Penta		229	C	20	246	C	20	250	C	20	434	C	20
PCB-85	Penta		66.7	C	20	58.4	C	20	60.6	C	20	127	C	20
PCB-86	Penta		8.88	J	20		U	5.49	7.14	J	20	13.6	J	20
PCB-87	Penta		156	C	20	130	C	20	136	C	20	309	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20
PCB-89	Penta		7.49	J	20	11.1	J	20	10.1	J	20	20.2	J	20
PCB-90	Penta		483	C	20	430	C	20	458	C	20	909	C	20
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	1.1		U	1.2		U	1.79		U	1.53
PCB-94	Penta		4.55	J	20	5.13	J	20	4.2	J	20	8.83	J	20
PCB-95	Penta		510		20	523		20	539		20	957		20
PCB-96	Penta		7.58	J	20	7.65	J	20	8.42	J	20	15.9	J	20
PCB-97	Penta		141		20	112		20	120		20	269		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		199		20	169		20	170		20	384		20
PCB-100	Penta		11.9	J	20	9.85	J	20	10.3	J	20	17.4	J	20
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		13.4	J	20	11.9	J	20	11.7	J	20	23.7	J	20
PCB-104	Penta	PRC	1490		20	1560		20	1210		20	1830		20
PCB-105	Penta		85.2		20	85.6		20	85.7		20	154		20
PCB-106	Penta		241	C	20	238	C	20	230	C	20	424	C	20
PCB-107	Penta		18.9	C,J	20	20	C	20	19.2	C,J	20	33.1	C	20
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U	4.76		U	3.82		U	3.72		U	4.82

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010			LDW-Y2-SC-ENR-CE-S010			LDW-Y2-SU-ENR+AC-CA-S010			LDW-Y2-SU-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		681	C	20	652	C	20	2380	C	20	1040	C	20
PCB-57	Tetra		9.54	J	20	10.8	J	20	30.8		20	23.5		20
PCB-58	Tetra		6.02	J	20	5.73	J	20	21.5		20	14	J	20
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		1160	C	20	1190	C	20	4860	C	20	2540	C	20
PCB-62	Tetra			U	2.26		U	3.59		U	5.77		U	5.27
PCB-63	Tetra		45.5		20	46.7		20	202		20	111		20
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	2.41		U	3.83		U	5.83		U	5.32
PCB-66	Tetra		1030	C	20	1100	C	20	3680	C	20	1900	C	20
PCB-67	Tetra		48.9		20	52.2		20	190		20	95.9		20
PCB-68	Tetra		19.4	J	20	24.1		20	61.3		20	46.7		20
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		36.4		20	36.9		20		U	5.38		U	4.92
PCB-74	Tetra		535		20	559		20	2130		20	1050		20
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		62.7		20	67.3		20	210		20	90.7		20
PCB-78	Tetra	PRC	2050		20	2230		20	2200		20	1960		20
PCB-79	Tetra		15.6	J	20	13.8	J	20	28.9		20	26.5		20
PCB-80	Tetra			U	2.01		U	3.2		U	4.71		U	4.3
PCB-81	Tetra		28.8		20	42.9		20	80.8		20	47.5		20
PCB-82	Penta		135		20	124		20	411		20	306		20
PCB-83	Penta		49.3	C	20	50.1	C	20	173	C	20	145	C	20
PCB-84	Penta		520	C	20	535	C	20	1620	C	20	1440	C	20
PCB-85	Penta		161	C	20	163	C	20	453	C	20	348	C	20
PCB-86	Penta		13	J	20	18.7	J	20		U	4.21		U	6.32
PCB-87	Penta		378	C	20	393	C	20	1170	C	20	939	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20
PCB-89	Penta		20.5		20	19.1	J	20	83.7		20	59.9		20
PCB-90	Penta		1120	C	20	1150	C	20	3220	C	20	3000	C	20
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	1.43		U	1.31		U	2.22		U	1.86
PCB-94	Penta		9.15	J	20	10.5	J	20	30.2		20	23		20
PCB-95	Penta		1180		20	1290		20	3720		20	3140		20
PCB-96	Penta		16.5	J	20	17.6	J	20	60.7		20	39.6		20
PCB-97	Penta		348		20	348		20	48.7		20	850		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		475		20	480		20	1310		20	1190		20
PCB-100	Penta		20.1		20	20.1		20	30.5		20	24.9		20
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		29.6		20	31.6		20	57.4		20	63.9		20
PCB-104	Penta	PRC	1960		20	2130		20	2170		20	1940		20
PCB-105	Penta		207		20	210		20	645		20	470		20
PCB-106	Penta		582	C	20	578	C	20	1630	C	20	1400	C	20
PCB-107	Penta		44	C	20	47.5	C	20	142	C	20	122	C	20
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U	3.22		U	4.43		U	3.02		U	4.54

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		2350	C	20	1490	C	20	2770	C	20	1290	C	20
PCB-57	Tetra		41.9		20	26.4		20	61.6		20	21.9		20
PCB-58	Tetra		19.3	J	20	13.4	J	20	36.6		20	11.4	J	20
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		5800	C	20	3040	C	20	6110	C	20	2740	C	20
PCB-62	Tetra			U	8.09		U	5.99		U	6.34		U	6.43
PCB-63	Tetra		227		20	130		20	285		20	110		20
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	8.17		U	6.05		U	6.41		U	5.96
PCB-66	Tetra		3910	C	20	2420	C	20	4760	C	20	2070	C	20
PCB-67	Tetra		178		20	117		20	234		20	102		20
PCB-68	Tetra		67.8		20	40.8		20	86.6		20	48.7		20
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra			U	7.54		U	5.59		U	5.92		U	5.68
PCB-74	Tetra		2240		20	1400		20	2760		20	1230		20
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		198		20	150		20	251		20	131		20
PCB-78	Tetra	PRC	1750		20	2250		20	2050		20	2280		20
PCB-79	Tetra		67.8		20	23.6		20	55.1		20	30.5		20
PCB-80	Tetra			U	6.6		U	4.89		U	5.18		U	5.19
PCB-81	Tetra		121		20	52.5		20	104		20	52.1		20
PCB-82	Penta		837		20	369		20	796		20	294		20
PCB-83	Penta		368	C	20	161	C	20	348	C	20	129	C	20
PCB-84	Penta		3760	C	20	1510	C	20	3290	C	20	1240	C	20
PCB-85	Penta		949	C	20	414	C	20	902	C	20	360	C	20
PCB-86	Penta		38.7		20	31.4		20		U	6		U	6.44
PCB-87	Penta		2830	C	20	1070	C	20	2360	C	20	912	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20
PCB-89	Penta		145		20	62.2		20	144		20	59.4		20
PCB-90	Penta		8410	C	20	3230	C	20	6940	C	20	2680	C	20
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	2.33		U	1.5		U	1.53		U	3.03
PCB-94	Penta		52.1		20	22.4		20	50.5		20	22.2		20
PCB-95	Penta		8450		20	3060		20	6620		20	3030		20
PCB-96	Penta		95.2		20	40		20	92.2		20	42.9		20
PCB-97	Penta		2420		20	984		20	2160		20	816		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		2870		20	1280		20	2690		20	1100		20
PCB-100	Penta		37.6		20	26		20	40.2		20	27.6		20
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		93.4		20	52.2		20	102		20	48.2		20
PCB-104	Penta	PRC	1910		20	2160		20	1900		20	2010		20
PCB-105	Penta		1340		20	575		20	1130		20	479		20
PCB-106	Penta		3470	C	20	1460	C	20	3140	C	20	1340	C	20
PCB-107	Penta		273	C	20	121	C	20	283	C	20	112	C	20
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta		5.99	J	20		U	6.76	8.85	J	20		U	4.72

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB			LDW-Y2-IN-ENR+AC-CA-S010			LDW-Y2-IN-ENR+AC-CB-S010			LDW-Y2-IN-ENR+AC-CC-S010			LDW-Y2-IN-ENR-CA-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra			UC	20	48.8	C	20	94.6	C	20	73.3	C	20	75.5	C	20
PCB-57	Tetra			U	1.98	9.52	J	20		U	2.94	5.76	J	20	6.16	J	20
PCB-58	Tetra			U	1.96	5.17	J	20		U	2.91		U	3.24	U	3.09	
PCB-59	Tetra			C042			C042			C042			C042		C042		
PCB-60	Tetra			C056			C056			C056			C056		C056		
PCB-61	Tetra		25.1	C	20	624	C	20	243	C	20	181	C	20	223	C	20
PCB-62	Tetra			U	1.86		U	2.55		U	2.76		U	3.08		U	2.93
PCB-63	Tetra			U	1.96	25.2		20	12.5	J	20	9.27	J	20	9.99	J	20
PCB-64	Tetra			C041			C041			C041			C041		C041		
PCB-65	Tetra			U	2.03		U	2.79		U	3.02		U	3.36		U	3.2
PCB-66	Tetra		15.1	C,J	20	546	C	20	201	C	20	169	C	20	211	C	20
PCB-67	Tetra			U	2	23.6		20	10.3	J	20	7.96	J	20	9.82	J	20
PCB-68	Tetra		33.6		20	32.4		20	14.6	J	20	12.7	J	20	12.2	J	20
PCB-69	Tetra			C052			C052			C052			C052		C052		
PCB-70	Tetra			C061			C061			C061			C061		C061		
PCB-71	Tetra			C041			C041			C041			C041		C041		
PCB-72	Tetra			C041			C041			C041			C041		C041		
PCB-73	Tetra		32.8		20	30.3		20		U	2.53	15.7	J	20	16	J	20
PCB-74	Tetra		11.1	J	20	251		20	98.8		20	75.2		20	89.4		20
PCB-75	Tetra			C048			C048			C048			C048		C048		
PCB-76	Tetra			C066			C066			C066			C066		C066		
PCB-77	Tetra			U	3.53	14.3	J	20	15.2	J	20	14.1	J	20	14.5	J	20
PCB-78	Tetra	PRC	3260		20	1630		20	2270		20	2160		20	1630		20
PCB-79	Tetra			U	3.09	6.55	J	20	10.7	J	20	8.3	J	20	9.19	J	20
PCB-80	Tetra		24		20		U	2.28		U	2.47	9.4	J	20		U	2.62
PCB-81	Tetra			U	2.95	13.1	J	20	17.4	J	20	27.2		20	23.6		20
PCB-82	Penta			U	2.06	42.3		20	74.1		20	52.7		20	56		20
PCB-83	Penta			UC	20	21.4	C	20	35.3	C	20	29.1	C	20	34	C	20
PCB-84	Penta		5.38	C,J	20	212	C	20	368	C	20	263	C	20	319	C	20
PCB-85	Penta			UC	20	69.3	C	20	103	C	20	71.3	C	20	91	C	20
PCB-86	Penta		6.49	J	20		U	4.23		U	7.7		U	13.8		U	8.99
PCB-87	Penta		4.36	C,J	20	155	C	20	247	C	20	174	C	20	210	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20		UC	20
PCB-89	Penta			U	1.42	4.67	J	20	11.1	J	20	9.39	J	20		U	7.32
PCB-90	Penta		11.5	C,J	20	393	C	20	642	C	20	447	C	20	554	C	20
PCB-91	Penta			C088			C088			C088			C088		C088		
PCB-92	Penta			C084			C084			C084			C084		C084		
PCB-93	Penta		65.9		20		U	1.49		U	2.39		U	2.28		U	2.22
PCB-94	Penta			U	0.906	3.92	J	20		U	2.41		U	2.31		U	2.25
PCB-95	Penta		20.7		20	676		20	876		20	595		20	746		20
PCB-96	Penta			U	0.595	4.82	J	20	8.14	J	20	6.78	J	20	6.56	J	20
PCB-97	Penta		3.43	J	20	127		20	198		20	13.1	J	20	187		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		3.92	J	20	166		20	270		20	193		20	241		20
PCB-100	Penta		9.28	J	20	10.4	J	20	11.5	J	20	11.9	J	20	12.2	J	20
PCB-101	Penta			C090			C090			C090			C090		C090		
PCB-102	Penta			C098			C098			C098			C098		C098		
PCB-103	Penta			U	0.739	9.63	J	20	14.1	J	20	10.9	J	20	13.5	J	20
PCB-104	Penta	PRC	2700		20	1570		20	2260		20	2020		20	1470		20
PCB-105	Penta			U	1.02	92.9		20	131		20	100		20	121		20
PCB-106	Penta		4.65	C,J	20	289	C	20	371	C	20	281	C	20	375	C	20
PCB-107	Penta			UC	20	24.9	C	20	35.7	C	20	27.1	C	20	31.9	C	20
PCB-108	Penta			C107			C107			C107			C107		C107		
PCB-109	Penta			U	1.17		U	2.83		U	5.15		U	9.23		U	6.02

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-S010			LDW-Y2-IN-ENR-CE-S010			LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI			LDW-Y2-SC-ENR+AC-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		61.6	C	20	101	C	20	328	C	20	205	C	20
PCB-57	Tetra		5.21	J	20		U	5.28	5.67	J	20		U	3.56
PCB-58	Tetra		4.32	J	20		U	4.88		U	2.44		U	3.37
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		191	C	20	310	C	20	573	C	20	411	C	20
PCB-62	Tetra			U	2.29		U	5.05		U	2.37		U	3.27
PCB-63	Tetra		9.43	J	20	13.5	J	20	19.8	J	20	16.7	J	20
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	2.5		U	5.38		U	2.45		U	3.39
PCB-66	Tetra		176	C	20	258	C	20	496	C	20	326	C	20
PCB-67	Tetra		7.41	J	20	13.2	J	20	23.5		20	16	J	20
PCB-68	Tetra		11.3	J	20	13	J	20	10.8	J	20	9.25	J	20
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		22.1		20		U	4.71	21		20	13	J	20
PCB-74	Tetra		73.1		20	127		20	257		20	173		20
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		11	J	20	18.3	J	20	38.8		20	22		20
PCB-78	Tetra	PRC	2110		20	1320		20	1230		20	716		20
PCB-79	Tetra		6.98	J	20	9.56	J	20	6.7	J	20	4.05	J	20
PCB-80	Tetra			U	2.05		U	4.5		U	2.15		U	2.97
PCB-81	Tetra		25.4		20	31.6		20	13.9	J	20	10.1	J	20
PCB-82	Penta		48.5		20	80		20	45		20	27.7		20
PCB-83	Penta		29.3	C	20	43.8	C	20	21.9	C	20	12.3	C,J	20
PCB-84	Penta		280	C	20	473	C	20	220	C	20	127	C	20
PCB-85	Penta		71.8	C	20	108	C	20	56.2	C	20	34.6	C	20
PCB-86	Penta			U	6.59		U	7.36		U	5.28		U	4.71
PCB-87	Penta		174	C	20	308	C	20	131	C	20	85.4	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20
PCB-89	Penta			U	5.36	12.2	J	20	10.6	J	20	6.28	J	20
PCB-90	Penta		459	C	20	891	C	20	437	C	20	264	C	20
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	1.82		U	3.54		U	1.62		U	2.04
PCB-94	Penta			U	1.84	8.14	J	20		U	1.74		U	2.2
PCB-95	Penta		637		20	957		20	512		20	292		20
PCB-96	Penta		6.37	J	20	9.71	J	20	7.05	J	20	5.17	J	20
PCB-97	Penta		7.9	J	20	247		20	123		20	70		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		195		20	359		20	180		20	103		20
PCB-100	Penta		12.9	J	20	11.2	J	20	9.68	J	20	4.83	J	20
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		12.6	J	20	14.5	J	20	14.8	J	20	6.76	J	20
PCB-104	Penta	PRC	1890		20	1440		20	1310		20	703		20
PCB-105	Penta		101		20	148		20	88.3		20	48.6		20
PCB-106	Penta		312	C	20	433	C	20	229	C	20	123	C	20
PCB-107	Penta		29.4	C	20	41.8	C	20	18.7	C,J	20	10.4	C,J	20
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U	4.41		U	5.62		U	4.03		U	3.6

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CC-SSWI			LDW-Y2-SC-ENR-CC-SSWI			LDW-Y2-SC-ENR-CD-SSWI			LDW-Y2-SC-ENR-CE-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		213	C	20	230	C	20	603	C	20	628	C	20
PCB-57	Tetra		5.61	J	20		U	3.39	9	J	20	9.75	J	20
PCB-58	Tetra			U	3.36		U	3.21		U	4.82		U	3.32
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		410	C	20	367	C	20	1030	C	20	1040	C	20
PCB-62	Tetra			U	3.26		U	3.11		U	4.68		U	3.22
PCB-63	Tetra		18.6	J	20	14.5	J	20	39.5		20	40.4		20
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	3.38		U	3.23		U	4.85		U	3.34
PCB-66	Tetra		358	C	20	321	C	20	911	C	20	936	C	20
PCB-67	Tetra		21.8		20	14.4	J	20	43.3		20	5.24	J	20
PCB-68	Tetra		10.5	J	20		U	3.05	22.6		20	22.4		20
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		18.3	J	20	11.9	J	20	33.2		20	36.9		20
PCB-74	Tetra		194		20	162		20	464		20	478		20
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		26.5		20	23		20	56		20	70.4		20
PCB-78	Tetra	PRC	1330		20	561		20	2130		20	2550		20
PCB-79	Tetra		3.81	J	20	4.7	J	20	11.4	J	20	10.3	J	20
PCB-80	Tetra			U	2.95		U	2.82		U	4.24		U	2.92
PCB-81	Tetra		16.3	J	20	13.2	J	20	27.6		20	33.3		20
PCB-82	Penta		35		20	30.8		20	89.8		20	84.7		20
PCB-83	Penta		14.5	C,J	20	15.6	C,J	20	39.9	C	20	37.9	C	20
PCB-84	Penta		163	C	20	181	C	20	445	C	20	441	C	20
PCB-85	Penta		43.6	C	20	41	C	20	115	C	20	110	C	20
PCB-86	Penta		8.66	J	20		U	5.28	11.8	J	20	10.3	J	20
PCB-87	Penta		105	C	20	104	C	20	280	C	20	292	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20
PCB-89	Penta		7.29	J	20	9.07	J	20	22.5		20	17.3	J	20
PCB-90	Penta		315	C	20	355	C	20	908	C	20	864	C	20
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	1.97		U	1.3		U	1.81		U	1.81
PCB-94	Penta			U	2.13		U	1.4	7.36	J	20	8.9	J	20
PCB-95	Penta		352		20	373		20	1020		20	1110	-	20
PCB-96	Penta		5.3	J	20	5.39	J	20	13.7	J	20	15.9	J	20
PCB-97	Penta		86.9		20	91.1		20	252		20	261		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		127		20	142		20	368		20	367		20
PCB-100	Penta		8.31	J	20	6.58	J	20	15.2	J	20	18.3	J	20
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		7.76	J	20	9.58	J	20	20.7		20	26.2		20
PCB-104	Penta	PRC	1160		20	583		20	1690		20	2370		20
PCB-105	Penta		58.7		20	55.6		20	171		20	165		20
PCB-106	Penta		165	C	20	163	C	20	467	C	20	494	C	20
PCB-107	Penta		5.39	C,J	20	4.79	C,J	20	36.3	C	20	36.6	C	20
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U	4.98		U	4.03		U	4.2		U	4.5

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CA-SSWI			LDW-Y2-IN-ENR+AC-CB-SSWI			LDW-Y2-IN-ENR+AC-CC-SSWI			LDW-Y2-IN-ENR-CA-SSWI			LDW-Y2-IN-ENR-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		107	C	20	96.7	C	20	132	C	20	136	C	20	127	C	20
PCB-57	Tetra		5.32	J	20	4.46	J	20		U	2.83	6.95	J	20		U	2.9
PCB-58	Tetra			U	2.01	3.24	J	20		U	2.62		U	2.41		U	2.82
PCB-59	Tetra			C042			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056			C056	
PCB-61	Tetra		308	C	20	301	C	20	342	C	20	341	C	20	310	C	20
PCB-62	Tetra			U	2.08		U	2.45		U	2.71		U	2.49		U	2.56
PCB-63	Tetra		11.6	J	20	11.6	J	20	14.4	J	20	16.3	J	20	15.5	J	20
PCB-64	Tetra			C041			C041			C041			C041			C041	
PCB-65	Tetra			U	2.22		U	2.62		U	2.89		U	2.66		U	2.81
PCB-66	Tetra		248	C	20	245	C	20	280	C	20	305	C	20	270	C	20
PCB-67	Tetra		13.9	J	20	9.83	J	20	13.8	J	20	15.7	J	20	15.4	J	20
PCB-68	Tetra		14	J	20	14	J	20	13.9	J	20	14.3	J	20	15.6	J	20
PCB-69	Tetra			C052			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041			C041	
PCB-73	Tetra		16.2	J	20	20.4		20	22		20	23.4		20	22		20
PCB-74	Tetra		124		20	114		20	133		20	144		20	130		20
PCB-75	Tetra			C048			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066			C066	
PCB-77	Tetra		21		20	20.3		20	22		20	25.8		20	21.9		20
PCB-78	Tetra	PRC	1790		20	2160		20	1960		20	1940		20	2280		20
PCB-79	Tetra		10.3	J	20	7.15	J	20	9.76	J	20	8.72	J	20	9.74	J	20
PCB-80	Tetra			U	1.86		U	2.18		U	2.41		U	2.22		U	2.39
PCB-81	Tetra		30.1		20	14.2	J	20	24.5		20	26.3		20	26.3		20
PCB-82	Penta		61.5		20	52.9		20	60.5		20	77.6		20	63.4		20
PCB-83	Penta		33	C	20	27.3	C	20	37.8	C	20	41.7	C	20	38.5	C	20
PCB-84	Penta		346	C	20	292	C	20	356	C	20	394	C	20	410	C	20
PCB-85	Penta		88.9	C	20	77	C	20	93	C	20	117	C	20	90.8	C	20
PCB-86	Penta			U	5.5		U	4.81		U	5.4	9.73	J	20		U	6.79
PCB-87	Penta		222	C	20	189	C	20	230	C	20	282	C	20	224	C	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20		UC	20
PCB-89	Penta		9.39	J	20	6.37	J	20	9.88	J	20	10	J	20	9.59	J	20
PCB-90	Penta		666	C	20	533	C	20	673	C	20	768	C	20	652	C	20
PCB-91	Penta			C088			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084			C084	
PCB-93	Penta			U	1.49		U	1.57		U	1.45		U	1.72		U	2.26
PCB-94	Penta		5.98	J	20	4.47	J	20	5.64	J	20	6.85	J	20		U	2.27
PCB-95	Penta		719		20	661		20	748		20	884		20	784		20
PCB-96	Penta		5.67	J	20	6.32	J	20	7.6	J	20	8.32	J	20	8.23	J	20
PCB-97	Penta		179		20	167		20	218		20	224		20	184		20
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		300		20	241		20	301		20	315		20	278		20
PCB-100	Penta		11.6	J	20	10.7	J	20	11.6	J	20	14	J	20	14	J	20
PCB-101	Penta			C090			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098			C098	
PCB-103	Penta		12.4	J	20	11.2	J	20	14.1	J	20	16.5	J	20	14.2	J	20
PCB-104	Penta	PRC	1710		20	2060		20	1820		20	1860		20	2100		20
PCB-105	Penta		120		20	101		20	121		20	150		20	121		20
PCB-106	Penta		374	C	20	313	C	20	365	C	20	428	C	20	380	C	20
PCB-107	Penta		31.6	C	20	27.9	C	20	31.9	C	20	38.5	C	20	36.1	C	20
PCB-108	Penta			C107			C107			C107			C107			C107	
PCB-109	Penta			U	4.2		U	3.67		U	4.12		U	4.09		U	4.72

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CE-SSWI			LDW-Y2-SC-S010-TB			LDW-Y2-SU-S010-TB			LDW-Y2-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-56	Tetra		118	C	20		UC	20		UC	20		UC	20
PCB-57	Tetra		5.68	J	20		U	2.08		U	2.16		U	2.01
PCB-58	Tetra			U	3.22		U	1.95		U	2.03		U	1.89
PCB-59	Tetra			C042			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056			C056	
PCB-61	Tetra		312	C	20	7.71	C,J	20		UC	20	8.81	C,J	20
PCB-62	Tetra			U	2.93		U	2.12		U	2.2		U	2.05
PCB-63	Tetra		12.3	J	20		U	2.09		U	2.17		U	2.02
PCB-64	Tetra			C041			C041			C041			C041	
PCB-65	Tetra			U	3.21		U	2.14		U	2.22		U	2.07
PCB-66	Tetra		265	C	20		UC	20		UC	20	5.59	C,J	20
PCB-67	Tetra		13	J	20		U	2.18		U	2.26		U	2.11
PCB-68	Tetra		11.3	J	20	10.8	J	20	10.4	J	20	8.4	J	20
PCB-69	Tetra			C052			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041			C041	
PCB-73	Tetra		21.8		20	16.5	J	20	16	J	20	12.3	J	20
PCB-74	Tetra		128		20		U	2.11		U	2.19	4.39	J	20
PCB-75	Tetra			C048			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066			C066	
PCB-77	Tetra		25.1		20		U	3.25		U	3.76		U	3.42
PCB-78	Tetra	PRC	1540		20	3080		20	2920		20	2240		20
PCB-79	Tetra		12.6	J	20		U	2.9		U	3.27		U	2.94
PCB-80	Tetra			U	2.73	9.01	J	20	9.84	J	20	6.69	J	20
PCB-81	Tetra		26.6		20		U	2.86		U	3.15		U	2.8
PCB-82	Penta		75.7		20		U	5.1		U	4.89		U	5.56
PCB-83	Penta		40	C	20		UC	20		UC	20		UC	20
PCB-84	Penta		441	C	20	47.2	C	20	41.5	C	20	38.6	C	20
PCB-85	Penta		104	C	20		UC	20		UC	20		UC	20
PCB-86	Penta			U	6.04		U	4.31		U	4.13		U	4.69
PCB-87	Penta		278	C	20		UC	20		UC	20		UC	20
PCB-88	Penta			UC	20		UC	20		UC	20		UC	20
PCB-89	Penta		13.3	J	20		U	4.06		U	3.9		U	4.43
PCB-90	Penta		812	C	20	7.45	C,J	20		UC	20	7.44	C,J	20
PCB-91	Penta			C088			C088			C088			C088	
PCB-92	Penta			C084			C084			C084			C084	
PCB-93	Penta			U	1.56	49.1		20	55.4		20	39.2		20
PCB-94	Penta			U	1.57		U	2.51		U	2.29		U	2.21
PCB-95	Penta		921		20		U	2.28		U	2.08		U	2
PCB-96	Penta		7.07	J	20		U	1.67		U	1.52		U	1.47
PCB-97	Penta		218		20		U	4.48		U	4.3		U	4.89
PCB-98	Penta			UC	20		UC	20		UC	20		UC	20
PCB-99	Penta		320		20		U	3.4		U	3.26		U	3.7
PCB-100	Penta		10.4	J	20	7.16	J	20		U	1.88		U	1.81
PCB-101	Penta			C090			C090			C090			C090	
PCB-102	Penta			C098			C098			C098			C098	
PCB-103	Penta		11.8	J	20		U	2.09		U	1.91		U	1.84
PCB-104	Penta	PRC	1380		20	2330		20	2580		20	1740		20
PCB-105	Penta		157		20		U	2.62		U	1.51		U	2.33
PCB-106	Penta		474	C	20		UC	20		UC	20		UC	20
PCB-107	Penta		43	C	20		UC	20		UC	20		UC	20
PCB-108	Penta			C107			C107			C107			C107	
PCB-109	Penta			U	4.2		U	3.09		U	2.97		U	3.37

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010			LDW-Y2-SC-ENR+AC-CB-S010			LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		426		20	342		20	369		20	824		20
PCB-111	Penta		8.09	C,J	20	7.42	C,J	20	6.38	C,J	20	17.3	C,J	20
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	4.56		U	4.28		U	4.17		U	4.62
PCB-114	Penta		7.97	J	20	6.36	J	20	7.4	J	20	12.1	J	20
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		14.8	J	20	13.4	J	20	12.8	J	20	26		20
PCB-120	Penta			U	4.65		U	3.57		U	3.48		U	4.71
PCB-121	Penta	PRC	2950		20	2920		20	2310		20	3590		20
PCB-122	Penta		4.15	J	20	4.22	J	20		U	2.98		J	20
PCB-123	Penta		5.24	J	20	5.9	J	20	5.7	J	20	10	J	20
PCB-124	Penta		13.1	J	20	13	J	20	11.9	J	20	20.7		20
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U	2.57		U	3.03		U	3.59		U	3.57
PCB-127	Penta			U	2.22		U	2.56		U	3.13		U	3.43
PCB-128	Hexa		37.6	C	20	38.6	C	20	37.7	C	20	54.5	C	20
PCB-129	Hexa		13.9	J	20	14.4	J	20	13.4	J	20	19.6	J	20
PCB-130	Hexa		18.2	J	20	22.6		20	23.5		20	28.5		20
PCB-131	Hexa		9.95	C,J	20	12	C,J	20	11.6	C,J	20	17.8	C,J	20
PCB-132	Hexa		90.1	C	20	98.5	C	20	107	C	20	143	C	20
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		23	C	20	26.9	C	20	26.4	C	20	40.3	C	20
PCB-135	Hexa		53.3		20	57.8		20	59.1		20	92.6		20
PCB-136	Hexa		83.5		20	70.1		20	69.3		20	128		20
PCB-137	Hexa		13.1	J	20	12.1	J	20	14.3	J	20	20.1		20
PCB-138	Hexa		289	C	20	285	C	20	306	C	20	441	C	20
PCB-139	Hexa		334	C	20	341	C	20	355	C	20	525	C	20
PCB-140	Hexa			U	2.6	4.64	J	20	6.85	J	20	5	J	20
PCB-141	Hexa		55.7		20	52.9		20	45.4		20	87.4		20
PCB-142	Hexa	PRC	7300		20	7770		20	6650		20	8710		20
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		23.7		20	26.5		20	26.1		20	38		20
PCB-145	Hexa			U	1.86		U	1.13		U	1.74		U	1.45
PCB-146	Hexa		69	C	20	65.9	C	20	79	C	20	103	C	20
PCB-147	Hexa		8.94	J	20	8.92	J	20	8.62	J	20	12.3	J	20
PCB-148	Hexa			U	2.8		U	1.59		U	2.44		U	2.17
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	1.73		U	1.16		U	1.77		U	1.34
PCB-151	Hexa		120		20	105		20	118		20	206		20
PCB-152	Hexa			U	1.75		U	1.18		U	1.8		U	1.36
PCB-153	Hexa		378		20	372		20	363		20	525		20
PCB-154	Hexa		18.1	J	20	16.6	J	20	14.2	J	20	26.3		20
PCB-155	Hexa	PRC	2560		20	2650		20	1980		20	3030		20
PCB-156	Hexa		19.9	J	20	18.7	J	20	18.7	J	20	30.7		20
PCB-157	Hexa		6.61	J	20	5.69	J	20	4.74	J	20	9.68	J	20
PCB-158	Hexa		30.4	C	20	28.8	C	20	33.4	C	20	41.3	C	20
PCB-159	Hexa		8.09	J	20	9.86	J	20	8	J	20	11.4	J	20
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	2.22		U	2.6		U	2.57		U	2.3
PCB-167	Hexa		10.5	J	20	10.2	J	20	10.4	J	20	15.5	J	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010			LDW-Y2-SC-ENR-CE-S010			LDW-Y2-SU-ENR+AC-CA-S010			LDW-Y2-SU-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		1030		20	1050		20	2830		20	2530		20
PCB-111	Penta		22.6	C	20	25.2	C	20	70.3	C	20	41.1	C	20
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	3.09		U	4.24		U	3.28		U	4.93
PCB-114	Penta		16	J	20	16.1	J	20	51.2		20	36.3		20
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		34.2		20	32.9		20	80.6		20	82.6		20
PCB-120	Penta			U	3.15		U	4.33		J	20	10.8	J	20
PCB-121	Penta	PRC	3960		20	4360		20	4820		20	4170		20
PCB-122	Penta		9.93	J	20	9.74	J	20	30.1		20	19.6	J	20
PCB-123	Penta		13	J	20	14.7	J	20	41.6		20	27.2		20
PCB-124	Penta		29.9		20	29.8		20	78.1		20	67.5		20
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U	3.42		U	3.68	9.21	J	20	6.53	J	20
PCB-127	Penta			U	3.06		U	3.15		U	4.68		U	2.88
PCB-128	Hexa		83	C	20	84.7	C	20	212	C	20	215	C	20
PCB-129	Hexa		30.1		20	30.1		20	71.6		20	73.1		20
PCB-130	Hexa		44		20	47.9		20	102		20	107		20
PCB-131	Hexa		26	C	20	27.7	C	20	46.9	C	20	50.1	C	20
PCB-132	Hexa		237	C	20	240	C	20	632	C	20	547	C	20
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		57.8	C	20	58.3	C	20	133	C	20	122	C	20
PCB-135	Hexa		140		20	157		20	325		20	336		20
PCB-136	Hexa		182		20	203		20	409		20	390		20
PCB-137	Hexa		27.7		20	27.9		20	82.1		20	62.8		20
PCB-138	Hexa		658	C	20	682	C	20	1550	C	20	1480	C	20
PCB-139	Hexa		791	C	20	823	C	20	1780	C	20	1650	C	20
PCB-140	Hexa			U	3.08	9.31	J	20	21.2		20	23.1		20
PCB-141	Hexa		128		20	138		20	310		20	290		20
PCB-142	Hexa	PRC	11000		20	12000		20	12000		20	10200		20
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		53		20	57.4		20	116		20	92.1		20
PCB-145	Hexa			U	1.32		U	1.87		U	2.19		U	1.6
PCB-146	Hexa		141	C	20	172	C	20	289	C	20	320	C	20
PCB-147	Hexa		21.6		20	22.3		20	42.6		20	40		20
PCB-148	Hexa			U	1.98		U	2.81		U	3.07		U	2.24
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	1.22		U	1.74	9.16	J	20	9.46	J	20
PCB-151	Hexa		279		20	303		20	575		20	549		20
PCB-152	Hexa			U	1.24		U	1.76		U	2.25		U	1.64
PCB-153	Hexa		791		20	843		20	1550		20	1520		20
PCB-154	Hexa		52.3		20	40.9		20	46.4		20	58.6		20
PCB-155	Hexa	PRC	3700		20	3830		20	3860		20	3440		20
PCB-156	Hexa		42.8		20	45.7		20	110		20	105		20
PCB-157	Hexa		10.4	J	20	9.18	J	20	28		20	18.2	J	20
PCB-158	Hexa		60.8	C	20	63.5	C	20	169	C	20	153	C	20
PCB-159	Hexa		12.7	J	20	14.1	J	20	20.9		20	22.6		20
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	2.64		U	2.53		U	3.56		U	3.8
PCB-167	Hexa		18.6	J	20	22		20	48.6		20	38.2		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		6940		20	2730		20	6190		20	2350		20
PCB-111	Penta		158	C	20	65.1	C	20	102	C	20	53.2	C	20
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	6.33		U	7.35		U	4.68		U	4.88
PCB-114	Penta		97.5		20	37.7		20	82.6		20	45.3		20
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		149		20	77.1		20	172		20	70.4		20
PCB-120	Penta		28.9		20		U	6.45	22.3		20		U	4.32
PCB-121	Penta	PRC	4440		20	4490		20	4590		20	4590		20
PCB-122	Penta		54.4		20	20.7		20	45		20	21.7		20
PCB-123	Penta		76.3		20	38.2		20	76.6		20	32.9		20
PCB-124	Penta		174		20	70.4		20	151		20	75.2		20
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta		17.4	J	20	6.91	J	20	15.2	J	20	11.5	J	20
PCB-127	Penta			U	5.1		U	3.15		U	3.71		U	3.77
PCB-128	Hexa		490	C	20	185	C	20	489	C	20	203	C	20
PCB-129	Hexa		193		20	55.3		20	177		20	71.8		20
PCB-130	Hexa		246		20	83.6		20	252		20	104		20
PCB-131	Hexa		136	C	20	56.6	C	20	121	C	20	49.8	C	20
PCB-132	Hexa		1280	C	20	587	C	20	1140	C	20	539	C	20
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		321	C	20	130	C	20	274	C	20	119	C	20
PCB-135	Hexa		737		20	296		20	656		20	323		20
PCB-136	Hexa		879		20	337		20	767		20	346		20
PCB-137	Hexa		169		20	62.9		20	151		20	65.6		20
PCB-138	Hexa		3380	C	20	1410	C	20	3270	C	20	1450	C	20
PCB-139	Hexa		3690	C	20	1570	C	20	3400	C	20	1680	C	20
PCB-140	Hexa		33.2		20	18.9	J	20	37.5		20	19	J	20
PCB-141	Hexa		685		20	266		20	638		20	297		20
PCB-142	Hexa	PRC	9460		20	11500		20	10700		20	12400		20
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		226		20	102		20	199		20	101		20
PCB-145	Hexa			U	1.99		U	0.983		U	1.33		U	1.95
PCB-146	Hexa		537	C	20	282	C	20	550	C	20	283	C	20
PCB-147	Hexa		98.7		20	38.7		20	87.6		20	36.7		20
PCB-148	Hexa			U	2.78		U	1.38		U	1.86		U	2.46
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa		12.6	J	20	8.14	J	20	12.8	J	20	8.4	J	20
PCB-151	Hexa		1160		20	514		20	1010		20	508		20
PCB-152	Hexa		6.62	J	20		U	1.01	6.86	J	20		U	2.04
PCB-153	Hexa		3040		20	1320		20	3120		20	1560		20
PCB-154	Hexa		64.4		20	47.8		20	81.7		20	38.2		20
PCB-155	Hexa	PRC	3230		20	3610		20	3430		20	3310		20
PCB-156	Hexa		249		20	102		20	252		20	103		20
PCB-157	Hexa		45.1		20	24.6		20	59.4		20	27.5		20
PCB-158	Hexa		386	C	20	155	C	20	362	C	20	161	C	20
PCB-159	Hexa		28.6		20	19.8	J	20	23.8		20	23.8		20
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa		18.7	J	20		U	3.53		U	4.07		U	4.13
PCB-167	Hexa		99.8		20	45.1		20	105		20	37.1		20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB			LDW-Y2-IN-ENR+AC-CA-S010			LDW-Y2-IN-ENR+AC-CB-S010			LDW-Y2-IN-ENR+AC-CC-S010			LDW-Y2-IN-ENR-CA-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		9.62	J	20	475		20	751		20	522		20	660		20
PCB-111	Penta			UC	20	8.06	C,J	20	12.2	C,J	20	9.38	C,J	20	12.1	C,J	20
PCB-112	Penta			C083			C083			C083			C083			C083	
PCB-113	Penta			U	1.13		U	2.75		U	5.01		U	8.98		U	5.86
PCB-114	Penta			U	1.09	7.4	J	20		U	3.49		U	4.5	10.3	J	20
PCB-115	Penta			C111			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106			C106	
PCB-119	Penta			U	1.03	11.7	J	20	21.1		20	15.6	J	20	18.8	J	20
PCB-120	Penta			U	1.1		U	2.67		U	4.86		U	8.71		U	5.68
PCB-121	Penta	PRC	6190		20	4110		20	4010		20	3740		20	2880		20
PCB-122	Penta			U	1.09	3.8	J	20		U	3.77		U	4.47	6.8	J	20
PCB-123	Penta			U	1.14	6.47	J	20	7.87	J	20	7.25	J	20	10.4	J	20
PCB-124	Penta			U	1.13	16.8	J	20	22.6		20	16.3	J	20	24.7		20
PCB-125	Penta			C087			C087			C087			C087			C087	
PCB-126	Penta			U	1.21		U	1.75		U	4.28		U	5.27		U	4.35
PCB-127	Penta			U	1.12		U	1.57		U	3.85		U	4.56		U	3.87
PCB-128	Hexa			UC	20	53.8	C	20	65.8	C	20	53.2	C	20	67	C	20
PCB-129	Hexa			U	1.71	20.3		20	29.3		20	20.5		20	25.1		20
PCB-130	Hexa			U	1.72	32.2		20	44.7		20	32.7		20	44		20
PCB-131	Hexa			UC	20	12.5	C,J	20	12.8	C,J	20	18.6	C,J	20	19.7	C,J	20
PCB-132	Hexa			UC	20	113	C	20	144	C	20	139	C	20	154	C	20
PCB-133	Hexa			C131			C131			C131			C131			C131	
PCB-134	Hexa			UC	20	29.8	C	20	36	C	20	33.6	C	20	41.2	C	20
PCB-135	Hexa			U	1.52	71.3		20	102		20	77.8		20	97.9		20
PCB-136	Hexa			U	1.26	84.5		20	118		20	90.5		20	105		20
PCB-137	Hexa			U	1.43	21.1		20	29.9		20	23.6		20	26.9		20
PCB-138	Hexa		4.94	C,J	20	340	C	20	517	C	20	356	C	20	460	C	20
PCB-139	Hexa		7.22	C,J	20	348	C	20	527	C	20	390	C	20	470	C	20
PCB-140	Hexa			U	1.38		U	1.53		U	4.58		U	5.16	6.94	J	20
PCB-141	Hexa			U	1.5	64		20	98.5		20	71.2		20	85.2		20
PCB-142	Hexa	PRC	14700		20	10100		20	13700		20	12400		20	10000		20
PCB-143	Hexa			C134			C134			C134			C134			C134	
PCB-144	Hexa			U	1.48	19.2	J	20	35.2		20	20.9		20	25.4		20
PCB-145	Hexa			U	1.19		U	1.5		U	2.05		U	2.63		U	2.5
PCB-146	Hexa			UC	20	79	C	20	108	C	20	116	C	20	118	C	20
PCB-147	Hexa			U	1.3	11.3	J	20	16.9	J	20	15	J	20	16.8	J	20
PCB-148	Hexa			U	1.68		U	2.14		U	2.91		U	3.73		U	3.56
PCB-149	Hexa			C139			C139			C139			C139			C139	
PCB-150	Hexa			U	1.03		U	1.3		U	1.78		U	2.28		U	2.17
PCB-151	Hexa			U	1.57	99		20	153		20	102		20	139		20
PCB-152	Hexa			U	1.13		U	1.44		U	1.96		U	2.51		U	2.4
PCB-153	Hexa		97.1		20	401		20	582		20	430		20	511		20
PCB-154	Hexa		15.9	J	20	22.5		20	27		20	28.9		20	27.3		20
PCB-155	Hexa	PRC	4190		20	3070		20	4020		20	3690		20	2830		20
PCB-156	Hexa			U	1.13	23.6		20	35.2		20	21.1		20	32.2		20
PCB-157	Hexa			U	1.14	9.01	J	20	13.1	J	20		U	4.03	10.8	J	20
PCB-158	Hexa		3.4	C,J	20	41.5	C	20	54.6	C	20	42.2	C	20	45.2	C	20
PCB-159	Hexa		5.31	J	20	8.29	J	20		U	3.4	10.5	J	20	9.5	J	20
PCB-160	Hexa			C158			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146			C146	
PCB-166	Hexa			U	1.09		U	1.22		U	3.64		U	4.1		U	3.2
PCB-167	Hexa			U	0.992	12.2	J	20	18.1	J	20	13.9	J	20	16.6	J	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-S010			LDW-Y2-IN-ENR-CE-S010			LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI			LDW-Y2-SC-ENR+AC-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		553		20	833		20	354		20	205		20
PCB-111	Penta		7.97	C,J	20	14.6	C,J	20	8.76	C,J	20	5.39	C,J	20
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	4.29		U	5.38		U	4.19		U	3.74
PCB-114	Penta		8.18	J	20	14.5	J	20	6.92	J	20	4.76	J	20
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		17.1	J	20	24.3		20	11.9	J	20	7.6	J	20
PCB-120	Penta			U	4.16		U	5.49		U	3.7		U	3.31
PCB-121	Penta	PRC	3630		20	2900		20	2270		20	1200		20
PCB-122	Penta		5.02	J	20		U	3.74	4.16	J	20		U	3.1
PCB-123	Penta		8.04	J	20	12.8	J	20	5.39	J	20	4.61	J	20
PCB-124	Penta		18.3	J	20	23.7		20	11.8	J	20	8.57	J	20
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U	3.64	6.08	J	20		U	3.1		U	3.58
PCB-127	Penta			U	3.05		U	3.86		U	2.62		U	3.14
PCB-128	Hexa		63.6	C	20	71.3	C	20	36.9	C	20	21.2	C	20
PCB-129	Hexa		23.6		20	30.5		20	13.4	J	20	9.96	J	20
PCB-130	Hexa		37.2		20	37.4		20	18.8	J	20	9.63	J	20
PCB-131	Hexa		16.3	C,J	20	20.4	C	20	10.7	C,J	20	6.62	C,J	20
PCB-132	Hexa		120	C	20	139	C	20	95	C	20	52.3	C	20
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		34.6	C	20	42.8	C	20	23.9	C	20	13.5	C,J	20
PCB-135	Hexa		73.7		20	29.3		20	61.1		20	29.2		20
PCB-136	Hexa		85.3		20	94.1		20	74.4		20	39.6		20
PCB-137	Hexa		20.8		20	32.3		20	14.6	J	20	8.73	J	20
PCB-138	Hexa		393	C	20	434	C	20	296	C	20	147	C	20
PCB-139	Hexa		388	C	20	409	C	20	342	C	20	190	C	20
PCB-140	Hexa			U	3.85		U	5.79	6.94	J	20	3.96	J	20
PCB-141	Hexa		65.1		20	85.8		20	55.6		20	30.7		20
PCB-142	Hexa	PRC	12000		20	8100		20	6260		20	3460		20
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		22.4		20	27.9		20	22.7		20	13.1	J	20
PCB-145	Hexa			U	1.82		U	3.6		U	1.71		U	1.92
PCB-146	Hexa		94.1	C	20	91.5	C	20	58.6	C	20	37.1	C	20
PCB-147	Hexa		13.2	J	20	14.9	J	20	8.15	J	20	6.87	J	20
PCB-148	Hexa			U	2.59		U	5.41		U	2.59		U	2.92
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	1.58		U	3.34		U	1.68		U	1.9
PCB-151	Hexa		113		20	137		20	115		20	58.3		20
PCB-152	Hexa			U	1.74		U	3.4		U	1.89		U	2.13
PCB-153	Hexa		426		20	447		20	365		20	191		20
PCB-154	Hexa		22.5		20	19	J	20	16.2	J	20	9.31	J	20
PCB-155	Hexa	PRC	3490		20	2600		20	2120		20	1110		20
PCB-156	Hexa		25.9		20	35.9		20	20.8		20	9.2	J	20
PCB-157	Hexa		10	J	20	12.5	J	20	5.5	J	20	5.12	J	20
PCB-158	Hexa		43.1	C	20	51.1	C	20	29.6	C	20	15.4	C,J	20
PCB-159	Hexa		8.86	J	20		U	4.56	7.23	J	20	4.8	J	20
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	3.06		U	4.95		U	2.84		U	3.06
PCB-167	Hexa		14.7	J	20	18.5	J	20	10.3	J	20	5.08	J	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CC-SSWI			LDW-Y2-SC-ENR-CC-SSWI			LDW-Y2-SC-ENR-CD-SSWI			LDW-Y2-SC-ENR-CE-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		261		20	273		20	725		20	744		20
PCB-111	Penta		6.35	C,J	20	6.75	C,J	20	12.3	C,J	20	17.7	C,J	20
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	5.18		U	4.19		U	4.37		U	4.68
PCB-114	Penta		5.38	J	20	5.24	J	20	10.5	J	20	15.2	J	20
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		9.32	J	20	11.3	J	20	24.7		20	24.2		20
PCB-120	Penta			U	4.58		U	3.7		U	3.86		U	4.13
PCB-121	Penta	PRC	2300		20	1060		20	3650		20	4520		20
PCB-122	Penta			U	3		U	2.92	7.5	J	20		U	4.18
PCB-123	Penta		5.93	J	20	5.25	J	20	11.8	J	20	11.9	J	20
PCB-124	Penta		9.51	J	20	9.63	J	20	26.6		20	25.9		20
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U	3.45		U	3.36		U	4.12		U	5
PCB-127	Penta			U	3.05		U	2.96		U	3.44		U	4.24
PCB-128	Hexa		23.1	C	20	23.8	C	20	73.6	C	20	71.8	C	20
PCB-129	Hexa		10.5	J	20	8.82	J	20	24.6		20	26.6		20
PCB-130	Hexa		13.4	J	20	13.8	J	20	41.3		20	37		20
PCB-131	Hexa		9.3	C,J	20	8.88	C,J	20	17.1	C,J	20	19	C,J	20
PCB-132	Hexa		74.3	C	20	75.8	C	20	210	C	20	209	C	20
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		20.1	C	20	19.3	C,J	20	49.2	C	20	49.6	C	20
PCB-135	Hexa		40.5		20	44.7		20	125		20	131		20
PCB-136	Hexa		45.5		20	51.1		20	146		20	153		20
PCB-137	Hexa		9.84	J	20	9.9	J	20	17.9	J	20	26.9		20
PCB-138	Hexa		203	C	20	189	C	20	589	C	20	600	C	20
PCB-139	Hexa		219	C	20	244	C	20	705	C	20	689	C	20
PCB-140	Hexa			U	3.61		U	3.87	8.16	J	20	11.5	J	20
PCB-141	Hexa		40.1		20	40		20	112		20	116		20
PCB-142	Hexa	PRC	6660		20	3210		20	11400		20	13100		20
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		17.3	J	20	16.3	J	20	48		20	47.5		20
PCB-145	Hexa			U	2.23		U	1.46		U	1.87		U	1.54
PCB-146	Hexa		59.6	C	20	54.6	C	20	123	C	20	141	C	20
PCB-147	Hexa		4.77	J	20	7.14	J	20	18	J	20	16.9	J	20
PCB-148	Hexa			U	3.39		U	2.22		U	2.84		U	2.33
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	2.2		U	1.44		U	1.84		U	1.51
PCB-151	Hexa		68.5		20	79.7		20	212		20	224		20
PCB-152	Hexa			U	2.47		U	1.62		U	2.07		U	1.7
PCB-153	Hexa		248		20	231		20	672		20	676		20
PCB-154	Hexa		14	J	20	10.5	J	20	25.9		20	27.6		20
PCB-155	Hexa	PRC	1980		20	1030		20	3170		20	4000		20
PCB-156	Hexa		14.1	J	20	13.7	J	20	36.8		20	40.4		20
PCB-157	Hexa		5.98	J	20		U	3.56	8.5	J	20	10.6	J	20
PCB-158	Hexa		21.3	C	20	20	C	20	57	C	20	57.4	C	20
PCB-159	Hexa		5.94	J	20	6.09	J	20	11.8	J	20	13.3	J	20
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	3.05		U	3.28		U	3.9		U	3.96
PCB-167	Hexa		6.99	J	20	6.65	J	20	17.3	J	20	18.6	J	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CA-SSWI			LDW-Y2-IN-ENR+AC-CB-SSWI			LDW-Y2-IN-ENR+AC-CC-SSWI			LDW-Y2-IN-ENR-CA-SSWI			LDW-Y2-IN-ENR-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		654		20	570		20	674		20	857		20	661		20
PCB-111	Penta		13	C,J	20	10.9	C,J	20	12.1	C,J	20	16.6	C,J	20	13.5	C,J	20
PCB-112	Penta			C083			C083			C083			C083			C083	
PCB-113	Penta			U	4.02		U	3.52		U	3.95		U	3.92		U	5.29
PCB-114	Penta		9.85	J	20	8.08	J	20	6.45	J	20	10.8	J	20	9.18	J	20
PCB-115	Penta			C111			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106			C106	
PCB-119	Penta		18.4	J	20	15.7	J	20	20.2		20	26		20	21.4		20
PCB-120	Penta			U	4.1		U	3.59		U	4.03		U	4		U	4.42
PCB-121	Penta	PRC	3580		20	4210		20	3720		20	4070		20	4280		20
PCB-122	Penta		5.4	J	20	5.42	J	20	6.39	J	20	6.24	J	20		U	3.47
PCB-123	Penta		9.31	J	20	8.44	J	20	7.49	J	20	8.79	J	20	9.06	J	20
PCB-124	Penta		18.5	J	20	13.7	J	20	18.6	J	20	20.7		20	21.4		20
PCB-125	Penta			C087			C087			C087			C087			C087	
PCB-126	Penta			U	3.51		U	2.98		U	3.69		U	3.91		U	4.4
PCB-127	Penta			U	2.88		U	2.58		U	3.17		U	3.54		U	3.64
PCB-128	Hexa		70.1	C	20	51.5	C	20	59.4	C	20	72.8	C	20	71.2	C	20
PCB-129	Hexa		11.5	J	20	18.9	J	20	23.8		20	24.4		20	22.9		20
PCB-130	Hexa		33.8		20	28		20	31.4		20	37.3		20	38.1		20
PCB-131	Hexa		12.7	C,J	20	13.4	C,J	20	15.3	C,J	20	18.8	C,J	20	16.9	C,J	20
PCB-132	Hexa		138	C	20	108	C	20	151	C	20	149	C	20	148	C	20
PCB-133	Hexa			C131			C131			C131			C131			C131	
PCB-134	Hexa		36.4	C	20	29.6	C	20	34.1	C	20	42.5	C	20	37.7	C	20
PCB-135	Hexa		82.9		20	58		20	75		20	87.4		20	84.8		20
PCB-136	Hexa		84		20	72.1		20	90.1		20	86.7		20	79.7		20
PCB-137	Hexa		27.7		20	22.1		20	27		20	29.9		20	23.7		20
PCB-138	Hexa		404	C	20	320	C	20	388	C	20	463	C	20	400	C	20
PCB-139	Hexa		385	C	20	311	C	20	351	C	20	403	C	20	418	C	20
PCB-140	Hexa		8.39	J	20	5.8	J	20	6.49	J	20		U	3.3		U	4.38
PCB-141	Hexa		77.6		20	55.5		20	74.6		20	88		20	75.6		20
PCB-142	Hexa	PRC	10700		20	11200		20	10600		20	10800		20	12400		20
PCB-143	Hexa			C134			C134			C134			C134			C134	
PCB-144	Hexa		21		20	20.4		20	25.5		20	26.5		20	24.6		20
PCB-145	Hexa			U	1.54		U	1.91		U	1.81		U	1.43		U	1.74
PCB-146	Hexa		94.8	C	20	68.5	C	20	84	C	20	114	C	20	115	C	20
PCB-147	Hexa		18.8	J	20	12.8	J	20	16.2	J	20	14.8	J	20	17.5	J	20
PCB-148	Hexa			U	2.32		U	2.87		U	2.72		U	2.15		U	2.45
PCB-149	Hexa			C139			C139			C139			C139			C139	
PCB-150	Hexa			U	1.43		U	1.78		U	1.68		U	1.33		U	1.78
PCB-151	Hexa		139		20	92.4		20	129		20	145		20	131		20
PCB-152	Hexa			U	1.46		U	1.8		U	1.71		U	1.35		U	1.81
PCB-153	Hexa		449		20	338		20	416		20	450		20	502		20
PCB-154	Hexa		20.6		20	19.2	J	20	22.1		20	24.4		20	22.7		20
PCB-155	Hexa	PRC	3250		20	3760		20	3430		20	3540		20	3940		20
PCB-156	Hexa		30.6		20	24.1		20	26.9		20	33.4		20	30.1		20
PCB-157	Hexa		11.5	J	20	9.24	J	20	9.13	J	20	10.7	J	20	10.1	J	20
PCB-158	Hexa		48	C	20	38.5	C	20	40.8	C	20	49.7	C	20	45.3	C	20
PCB-159	Hexa		7.52	J	20	8.14	J	20	7.39	J	20	9.7	J	20	8.47	J	20
PCB-160	Hexa			C158			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146			C146	
PCB-166	Hexa			U	3		U	2.61		U	2.52		U	2.82		U	3.77
PCB-167	Hexa		14.3	J	20	14	J	20	14.7	J	20	15.5	J	20	18	J	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CE-SSWI			LDW-Y2-SC-S010-TB			LDW-Y2-SU-S010-TB			LDW-Y2-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-110	Penta		779		20		U	3.01		U	2.88		U	3.28
PCB-111	Penta		15.7	C,J	20		UC	20		UC	20		UC	20
PCB-112	Penta			C083			C083			C083			C083	
PCB-113	Penta			U	4.71		U	3.36		U	3.23		U	3.66
PCB-114	Penta		13.1	J	20		U	2.26		U	1.39		U	2.34
PCB-115	Penta			C111			C111			C111			C111	
PCB-116	Penta			C085			C085			C085			C085	
PCB-117	Penta			C087			C087			C087			C087	
PCB-118	Penta			C106			C106			C106			C106	
PCB-119	Penta		22.9		20		U	3.06		U	2.93		U	3.33
PCB-120	Penta			U	3.93		U	2.95		U	2.83		U	3.22
PCB-121	Penta	PRC	2950		20	4600		20	4540		20	3530		20
PCB-122	Penta		7.34	J	20		U	2.48		U	1.6		U	2.57
PCB-123	Penta		10.4	J	20		U	2.56		U	1.65		U	2.8
PCB-124	Penta		24.6		20		U	2.3		U	1.48		U	2.38
PCB-125	Penta			C087			C087			C087			C087	
PCB-126	Penta			U	4.52		U	2.95		U	1.92		U	3.04
PCB-127	Penta			U	3.8		U	2.56		U	1.65		U	2.65
PCB-128	Hexa		73.4	C	20		UC	20		UC	20		UC	20
PCB-129	Hexa		28.6		20		U	2.71		U	2.32		U	2.34
PCB-130	Hexa		39.4		20		U	2.44		U	2.08		U	2.1
PCB-131	Hexa		18	C,J	20		UC	20		UC	20		UC	20
PCB-132	Hexa		162	C	20		UC	20		UC	20		UC	20
PCB-133	Hexa			C131			C131			C131			C131	
PCB-134	Hexa		44	C	20		UC	20		UC	20		UC	20
PCB-135	Hexa		94.3		20		U	2.55		U	2.18		U	2.2
PCB-136	Hexa		87.3		20		U	2		U	1.35		U	1.09
PCB-137	Hexa		29.1		20		U	2.55		U	2.17		U	2.19
PCB-138	Hexa		464	C	20		UC	20		UC	20		UC	20
PCB-139	Hexa		440	C	20		UC	20		UC	20		UC	20
PCB-140	Hexa			U	3.87		U	2.12		U	1.81		U	1.82
PCB-141	Hexa		83.8		20		U	2.33		U	1.99		U	2.01
PCB-142	Hexa	PRC	8930		20	12700		20	13500		20	9330		20
PCB-143	Hexa			C134			C134			C134			C134	
PCB-144	Hexa		27.6		20		U	2		U	1.71		U	1.73
PCB-145	Hexa			U	1.66		U	1.95		U	1.32		U	1.06
PCB-146	Hexa		107	C	20		UC	20		UC	20		UC	20
PCB-147	Hexa		19.1	J	20		U	2.17		U	1.85		U	1.86
PCB-148	Hexa			U	2.33		U	2.72		U	1.85		U	1.49
PCB-149	Hexa			C139			C139			C139			C139	
PCB-150	Hexa			U	1.69		U	1.94		U	1.32		U	1.06
PCB-151	Hexa		133		20		U	2.4		U	2.05		U	2.07
PCB-152	Hexa			U	1.72		U	2		U	1.35		U	1.09
PCB-153	Hexa		501		20	69.5		20	67.6		20	42.3		20
PCB-154	Hexa		19.1	J	20	12.6	J	20	12.9	J	20	9.96	J	20
PCB-155	Hexa	PRC	2560		20	3890		20	4190		20	2950		20
PCB-156	Hexa		32.9		20		U	1.73		U	1.74		U	1.74
PCB-157	Hexa		11.2	J	20		U	1.88		U	1.6		U	1.69
PCB-158	Hexa		49.5	C	20		UC	20		UC	20		UC	20
PCB-159	Hexa		8.87	J	20		U	1.73		U	1.47		U	1.49
PCB-160	Hexa			C158			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128			C128	
PCB-163	Hexa			C138			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146			C146	
PCB-166	Hexa			U	3.33		U	1.85		U	1.58		U	1.59
PCB-167	Hexa		18.2	J	20		U	1.88		U	1.62		U	1.65

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010			LDW-Y2-SC-ENR+AC-CB-S010			LDW-Y2-SC-ENR+AC-CC-S010			LDW-Y2-SC-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	2.13		U	2.37		U	2.34		U	2.2
PCB-169	Hexa			U	2.12		U	2.25		U	2.58		U	2.37
PCB-170	Hepta		57.1		20	40.5		20	43.1		20	69.3		20
PCB-171	Hepta		21.5		20	17.2	J	20	19.1	J	20	24.6		20
PCB-172	Hepta		107		20	92.4		20	76.2		20	89.9		20
PCB-173	Hepta			U	3.25		U	2.95		U	3.57		U	2.74
PCB-174	Hepta		72.1		20	60.5		20	61.9		20	96.3		20
PCB-175	Hepta			U	2.92		U	2.57		U	3.11		U	2.46
PCB-176	Hepta		13.4	J	20	13.2	J	20	13.3	J	20	18.2	J	20
PCB-177	Hepta		47.2		20	37.3		20	40.9		20	58.2		20
PCB-178	Hepta		20.9		20	18.8	J	20	19	J	20	23.1		20
PCB-179	Hepta		44		20	39.1		20	38.8		20	57.8		20
PCB-180	Hepta		156		20	109		20	114		20	181		20
PCB-181	Hepta		6.96	J	20	5.09	J	20		U	2.96		U	2.47
PCB-182	Hepta		101	C	20	86.6	C	20	86	C	20	123	C	20
PCB-183	Hepta		56.5		20	42.9		20	47.1		20	62.4		20
PCB-184	Hepta	PRC	3430		20	3200		20	2630		20	3330		20
PCB-185	Hepta		11.7	J	20	7.55	J	20	10.5	J	20	14.9	J	20
PCB-186	Hepta			U	1.97		U	1.81		U	2.19		U	1.67
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		6.58	J	20	9.89	J	20	4.92	J	20	6.25	J	20
PCB-189	Hepta			U	1.86		U	1.65		U	2.07		U	1.62
PCB-190	Hepta		12.9	J	20	12.3	J	20	9.73	J	20	16.5	J	20
PCB-191	Hepta			U	2.25		U	2.03		U	2.46		U	1.91
PCB-192	Hepta	PRC	2950		20	2490		20	2020		20	2640		20
PCB-193	Hepta		11.7	J	20		U	1.99		U	2.41	11.4	J	20
PCB-194	Octa		17.6	J	20	12.1	J	20	14.9	J	20	23		20
PCB-195	Octa		9.25	J	20	6.27	J	20	7.21	J	20	9.54	J	20
PCB-196	Octa		26.2	C	20	23	C	20	23.1	C	20	37.5	C	20
PCB-197	Octa		42.2		20	36.3		20	32		20	47.8		20
PCB-198	Octa			U	2.15		U	3.12		U	2.84		U	2.87
PCB-199	Octa		25.6		20	19.8	J	20	22.8		20	39.7		20
PCB-200	Octa		5.1	J	20		U	2.02		U	1.84		U	2.05
PCB-201	Octa			U	1.59		U	2.09		U	1.9		U	2.12
PCB-202	Octa		7.74	J	20	5.84	J	20	7.24	J	20	11	J	20
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC	7000		20	6600		20	5230		20	7440		20
PCB-205	Octa			U	1.86		U	1.92		U	1.69		U	2.85
PCB-206	Nona		5.27	J	20		U	3.54	5.44	J	20	7.69	J	20
PCB-207	Nona		26.5		20	28		20	21.6		20	27.6		20
PCB-208	Nona		2.98	J	20		U	2.48		U	1.75		U	2.75
PCB-209	Deca		30.5		20	31.2		20	23.1		20	34.4		20
Total Detected PCB Congeners			45823			49570			39454			69289		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010			LDW-Y2-SC-ENR-CE-S010			LDW-Y2-SU-ENR+AC-CA-S010			LDW-Y2-SU-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	2.53		U	2.42		U	3.38		U	3.61
PCB-169	Hexa			U	2.86		U	2.58		U	3.53		U	3.69
PCB-170	Hepta		107		20	115		20	211		20	216		20
PCB-171	Hepta		40.8		20	47.1		20	82.1		20	79.4		20
PCB-172	Hepta		149		20	155		20	172		20	169		20
PCB-173	Hepta			U	2.44		U	3.28		U	5.34		U	3.53
PCB-174	Hepta		156		20	160		20	313		20	336		20
PCB-175	Hepta			U	2.19		U	2.94	8.64	J	20	14.5	J	20
PCB-176	Hepta		29		20	31.3		20	55		20	56.2		20
PCB-177	Hepta		93.2		20	99.7		20	182		20	209		20
PCB-178	Hepta		40.1		20	45.2		20	75.4		20	85.1		20
PCB-179	Hepta		98.2		20	111		20	185		20	190		20
PCB-180	Hepta		275		20	306		20	570		20	591		20
PCB-181	Hepta			U	2.19	8.24	J	20		U	4.68		U	3.09
PCB-182	Hepta		218	C	20	217	C	20	395	C	20	446	C	20
PCB-183	Hepta		101		20	112		20	177		20	198		20
PCB-184	Hepta	PRC	4880		20	5330		20	5190		20	4610		20
PCB-185	Hepta		22.3		20	21.5		20	40.5		20	37.8		20
PCB-186	Hepta			U	1.48	6.65	J	20		U	3.29		U	2.17
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		10.6	J	20	9.39	J	20	13.6	J	20	12.1	J	20
PCB-189	Hepta			U	1.38		U	2.05	9.54	J	20	9.16	J	20
PCB-190	Hepta		24.4		20	25		20	48.6		20	46.7		20
PCB-191	Hepta			U	1.69		U	2.27	7.97	J	20	6.83	J	20
PCB-192	Hepta	PRC	3900		20	4220		20	4000		20	3830		20
PCB-193	Hepta		18.8	J	20	25.5		20	30.8		20	33.8		20
PCB-194	Octa		30.8		20	35.3		20	67.7		20	77.1		20
PCB-195	Octa		16	J	20	18	J	20	31.9		20	38.4		20
PCB-196	Octa		48.7	C	20	59.7	C	20	94.2	C	20	113	C	20
PCB-197	Octa		61.2		20	58.3		20	63.5		20	54.8		20
PCB-198	Octa			U	2.67		U	1.73	5.84	J	20	6.94	J	20
PCB-199	Octa		52.9		20	55.7		20	92.7		20	118		20
PCB-200	Octa			U	1.91	10.3	J	20	16.5	J	20	15	J	20
PCB-201	Octa			U	1.97		U	1.27		U	2.03		U	1.45
PCB-202	Octa		15.5	J	20	17.4	J	20	16.3	J	20	30		20
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC	9560		20	9700		20	9860		20	8910		20
PCB-205	Octa		3.36	J	20		U	2.72	5.35	J	20	5.25	J	20
PCB-206	Nona		12	J	20	11.3	J	20	19.6	J	20	23.3		20
PCB-207	Nona		37.9		20	41.8		20	42.1		20	42.6		20
PCB-208	Nona		5.26	J	20	5.93	J	20	8.34	J	20	9.82	J	20
PCB-209	Deca		43.3		20	45.1		20	55.8		20	48.2		20
Total Detected PCB Congeners			79313			88983			159383			112677		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010			LDW-Y2-SU-ENR-CA-S010			LDW-Y2-SU-ENR-CB-S010			LDW-Y2-SU-ENR-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	4.94		U	3.35		U	3.87		U	3.99
PCB-169	Hexa			U	5.12		U	3.4		U	4.01		U	3.85
PCB-170	Hepta		375		20	179		20	486		20	155		20
PCB-171	Hepta		133		20	68.8		20	174		20	59.9		20
PCB-172	Hepta		174		20	158		20	215		20	142		20
PCB-173	Hepta		15.1	J	20		U	2.03	19.4	J	20		U	3.13
PCB-174	Hepta		541		20	276		20	688		20	244		20
PCB-175	Hepta		27.2		20		U	1.81	35.4		20	16	J	20
PCB-176	Hepta		96.6		20	48.6		20	121		20	49.8		20
PCB-177	Hepta		339		20	163		20	423		20	148		20
PCB-178	Hepta		119		20	68.4		20	157		20	66.8		20
PCB-179	Hepta		318		20	155		20	368		20	162		20
PCB-180	Hepta		956		20	509		20	1230		20	431		20
PCB-181	Hepta			U	3.16		U	1.78		U	2.23		U	2.85
PCB-182	Hepta		645	C	20	349	C	20	837	C	20	338	C	20
PCB-183	Hepta		312		20	159		20	412		20	146		20
PCB-184	Hepta	PRC	4230		20	5010		20	5000		20	5010		20
PCB-185	Hepta		63.9		20	37.7		20	82.4		20	32.1		20
PCB-186	Hepta			U	2.23	5.87	J	20		U	1.56	6.94	J	20
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta		10	J	20	11.2	J	20	13.7	J	20	13.1	J	20
PCB-189	Hepta		14.1	J	20	7.75	J	20	17.3	J	20	10.9	J	20
PCB-190	Hepta		82.4		20	39.8		20	104		20	38.3		20
PCB-191	Hepta		21.1		20		U	1.4	24.3		20		U	2.05
PCB-192	Hepta	PRC	3160		20	3910		20	3880		20	3620		20
PCB-193	Hepta		53.8		20	27.8		20	71.4		20	27.8		20
PCB-194	Octa		112		20	59.8		20	179		20	65.7		20
PCB-195	Octa		50.8		20	30.5		20	83.6		20	33.6		20
PCB-196	Octa		180	C	20	86.6	C	20	240	C	20	83.5	C	20
PCB-197	Octa		53.3		20	52		20	58.9		20	54.5		20
PCB-198	Octa		8.62	J	20	6.51	J	20	12.6	J	20	9.85	J	20
PCB-199	Octa		163		20	87.9		20	221		20	82.5		20
PCB-200	Octa		22.6		20	12.9	J	20	33.3		20	15.7	J	20
PCB-201	Octa		24.7		20	12.7	J	20	34.8		20	10.7	J	20
PCB-202	Octa		44.1		20	23.4		20	57.3		20	25		20
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC	8290		20	9290		20	9380		20	8830		20
PCB-205	Octa		7.7	J	20	5.35	J	20	11.1	J	20	15	J	20
PCB-206	Nona		31.8		20	19.4	J	20	52.2		20	25.9		20
PCB-207	Nona		38.6		20	43.9		20	43.3		20	43.9		20
PCB-208	Nona		11.9	J	20	7.13	J	20	18.1	J	20	11.1	J	20
PCB-209	Deca		46.4		20	48.8		20	55.5		20	54		20
Total Detected PCB Congeners			209503			124879			226883			120760		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SU-S010-LCB			LDW-Y2-IN-ENR+AC-CA-S010			LDW-Y2-IN-ENR+AC-CB-S010			LDW-Y2-IN-ENR+AC-CC-S010			LDW-Y2-IN-ENR-CA-S010			
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	
PCB-168	Hexa			U	1.09		U	1.21		U	3.63		U	4.08		U	3.19	
PCB-169	Hexa			U	1.01		U	1.13		U	3.08		U	4.12		U	3.12	
PCB-170	Hepta			U	1.66	37.2		20	48.9		20	37.4		20	46.6		20	
PCB-171	Hepta			U	1.6			U	1.15	17.4	J	20	19.6	J	20	19.1	J	20
PCB-172	Hepta		139		20	110		20	116		20	130		20	96.4		20	
PCB-173	Hepta			U	1.76			U	1.26		U	3.41		U	4.57		U	3.76
PCB-174	Hepta			U	1.69	54.4		20	78		20	55.5		20	63.8		20	
PCB-175	Hepta			U	1.56	3.22	J	20			U	3.03		U	4.07		U	3.34
PCB-176	Hepta			U	1.18	9.65	J	20	15.6	J	20	10.6	J	20	12.3	J	20	
PCB-177	Hepta			U	1.87	34.7		20	42.9		20	37		20	48.1		20	
PCB-178	Hepta			U	1.84	18	J	20	25.1		20	20.5		20	24.3		20	
PCB-179	Hepta			U	1.18	33.4		20			U	2.29	39.2		20	47.7		20
PCB-180	Hepta			U	1.66	103		20	142		20	120		20	146		20	
PCB-181	Hepta		7.45	J	20	6.71	J	20			U	2.89		U	3.88		U	3.19
PCB-182	Hepta		4.31	C,J	20	75.3	C	20	110	C	20	77.7	C	20	89.5	C	20	
PCB-183	Hepta		7.07	J	20	38.3		20	53.2		20	40		20	48.2		20	
PCB-184	Hepta	PRC	5650		20	4290		20	5650		20	5390		20	3790		20	
PCB-185	Hepta			U	1.67	7.18	J	20	11		J	20		U	4.36		U	3.58
PCB-186	Hepta		4.8		20	3.96	J	20			U	2.3		U	3.09		U	2.54
PCB-187	Hepta			C182			C182			C182			C182			C182		
PCB-188	Hepta		3.92	J	20	6.08	J	20	6.1	J	20	10.5	J	20	9.9	J	20	
PCB-189	Hepta			U	0.964			U	0.662		U	2.12		U	2.4		U	2.08
PCB-190	Hepta			U	1.16	9.14	J	20	10.7	J	20	8.28	J	20	12.6	J	20	
PCB-191	Hepta			U	1.19			U	0.855		U	2.3		U	3.09		U	2.54
PCB-192	Hepta	PRC	3690		20	3140		20	3680		20	3820		20	3020		20	
PCB-193	Hepta			U	1.17	8.14	J	20			U	2.27		U	3.06		J	20
PCB-194	Octa			U	1.53	12.3	J	20	16.7	J	20	15.1	J	20	15.7	J	20	
PCB-195	Octa			U	1.67	6.09	J	20	7.81	J	20	7.49	J	20	6.92	J	20	
PCB-196	Octa			UC	20	19.7	C,J	20	25.4	C	20	20.9	C	20	23.2	C	20	
PCB-197	Octa		40.8		20	47.7		20	59.4		20	59.9		20	50.5		20	
PCB-198	Octa			U	1.65			U	2.37		U	2.93		U	3.47		U	4.17
PCB-199	Octa			U	1.45	19.2	J	20	21.7		20	20.5		20	23.3		20	
PCB-200	Octa			U	1.2			U	1.72		U	2.13		U	2.52		U	3.03
PCB-201	Octa			U	1.24	3.85	J	20			U	2.2		U	2.6		U	3.12
PCB-202	Octa			U	1.19	6.97	J	20	9.05	J	20			U	2.5		U	3
PCB-203	Octa			C196			C196			C196			C196			C196		
PCB-204	Octa	PRC	10400		20	7570		20	8780		20	9100		20	7660		20	
PCB-205	Octa			U	1.18			U	1.15		U	2.32		U	2.99		U	1.98
PCB-206	Nona			U	2.6	4.57	J	20	5.75	J	20			U	4.82		J	20
PCB-207	Nona		35.8		20	31.8		20	37.4		20	38.9		20	33.1		20	
PCB-208	Nona			U	1.85	2.64	J	20			U	2.34		U	3.73		U	1.9
PCB-209	Deca		42.7		20	38.5		20	45.8		20	47.4		20	38.1		20	
Total Detected PCB Congeners			54029			48092			57162			52206			44886			

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-S010			LDW-Y2-IN-ENR-CE-S010			LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI			LDW-Y2-SC-ENR+AC-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	3.05		U	4.74		U	2.67		U	2.87
PCB-169	Hexa			U	2.78		U	5.49		U	2.31		U	2.61
PCB-170	Hepta		33.4		20	52		20	45.4		20	21.6		20
PCB-171	Hepta		12.4	J	20	22.9		20	16.9	J	20	7.78	J	20
PCB-172	Hepta		130		20	98.5		20	72.2		20	35.5		20
PCB-173	Hepta			U	3.26		U	4.77		U	3.93		U	3.68
PCB-174	Hepta		46.6		20	64.4		20	61.8		20	32.3		20
PCB-175	Hepta			U	2.89		U	4.28		U	3.44		U	3.23
PCB-176	Hepta		9.8	J	20	13	J	20	12.9	J	20	8.34	J	20
PCB-177	Hepta		36		20	42.8		20	36		20	20.8		20
PCB-178	Hepta		17.6	J	20	20.2		20	18.2	J	20	10.3	J	20
PCB-179	Hepta		31.9		20	37.3		20	34.1		20	19.5	J	20
PCB-180	Hepta		109		20	128		20	12.6	J	20	56.7		20
PCB-181	Hepta			U	2.76		U	4.29		U	3.54		U	3.32
PCB-182	Hepta		75.2	C	20	81.4	C	20	83	C	20	44.6	C	20
PCB-183	Hepta		32.1		20	43.2		20	48		20	28.2		20
PCB-184	Hepta	PRC	4860		20	3480		20	2480		20	1360		20
PCB-185	Hepta		7.97	J	20			4.24		U	3.49		U	3.27
PCB-186	Hepta			U	2.2			2.89		U	2.45		U	2.29
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta			U	2.52		U	3		U	2.65		U	2.65
PCB-189	Hepta			U	1.7		U	3		U	2.34		U	2.05
PCB-190	Hepta		9.8	J	20	13.8	J	20		U	2.61		U	2.44
PCB-191	Hepta			U	2.2		U	3.31		U	2.66		U	2.49
PCB-192	Hepta	PRC	3730		20	2730		20	1940		20	1040		20
PCB-193	Hepta		12.9	J	20	11	J	20		U	2.64		U	2.47
PCB-194	Octa		15.5	J	20	17.1	J	20	16.3	J	20	7.62	J	20
PCB-195	Octa		5.75	J	20	8.04	J	20	6.9	J	20		U	3.96
PCB-196	Octa		19.8	C,J	20	20.8	C	20	25.3	C	20	13	C,J	20
PCB-197	Octa		51.7		20	33.1		20	32.8		20	17.2	J	20
PCB-198	Octa			U	3.02		U	4.81		U	2.83		U	3.04
PCB-199	Octa		14.1	J	20	21		20	21.5		20	11.8	J	20
PCB-200	Octa			U	2.19		U	3.44		U	2.19		U	2.35
PCB-201	Octa			U	2.26		U	3.55		U	2.16		U	2.32
PCB-202	Octa			U	2.17		U	3.67	8.5	J	20		U	2.53
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC	9100		20	6610		20	4920		20	2630		20
PCB-205	Octa			U	1.95		U	3.82		U	2.38		U	2.91
PCB-206	Nona			U	3.97		U	6.49	6.88	J	20		U	4.34
PCB-207	Nona		35.9		20	28.8		20	21.7		20	11.1	J	20
PCB-208	Nona			U	2.76		U	5.32		U	2.33		U	3.59
PCB-209	Deca		44.4		20	34.8		20	24.7		20	13.8	J	20
Total Detected PCB Congeners			51489			42142			39399			24485		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CC-SSWI			LDW-Y2-SC-ENR-CC-SSWI			LDW-Y2-SC-ENR-CD-SSWI			LDW-Y2-SC-ENR-CE-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	2.86		U	3.07		U	3.66		U	3.71
PCB-169	Hexa			U	3.05		U	2.79		U	4.07		U	3.94
PCB-170	Hepta		26		20	21.6		20	71.2		20	75.6		20
PCB-171	Hepta		10.5	J	20	8.43	J	20	29		20	29.6		20
PCB-172	Hepta		60.6		20	31.1		20	137		20	137		20
PCB-173	Hepta			U	3.74		U	3.45		U	3.9		U	3.82
PCB-174	Hepta		38.9		20	37.2		20	115		20	108		20
PCB-175	Hepta			U	3.28		U	3.02		U	3.42		U	3.35
PCB-176	Hepta		7.24	J	20	7.86	J	20	21.5		20	23		20
PCB-177	Hepta		24.9		20	21.6		20	62.9		20	63.8		20
PCB-178	Hepta		12.4	J	20	11.2	J	20	29.6		20	30.9		20
PCB-179	Hepta		21.6		20	24.4		20	68.7		20	70		20
PCB-180	Hepta		71		20	65.2		20	19.8	J	20	20.4		20
PCB-181	Hepta			U	3.38		U	3.11		U	3.52		U	3.45
PCB-182	Hepta		51	C	20	51.1	C	20	148	C	20	149	C	20
PCB-183	Hepta		27.3		20	28.1		20	76.8		20	78.4		20
PCB-184	Hepta	PRC	2580		20	1260		20	4420		20	4690		20
PCB-185	Hepta			U	3.33		U	3.06		U	3.46		U	3.4
PCB-186	Hepta			U	2.33		U	2.15		U	2.43		U	2.38
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta			U	2.84		U	2.44	6.46	J	20	8.07	J	20
PCB-189	Hepta			U	1.92		U	1.95		U	2.19		U	1.89
PCB-190	Hepta			U	2.49		U	2.29		U	2.59		U	2.54
PCB-191	Hepta			U	2.53		U	2.33		U	2.64		U	2.58
PCB-192	Hepta	PRC	1960		20	922		20	3360		20	3660		20
PCB-193	Hepta			U	2.51		U	2.32		U	2.62		U	2.57
PCB-194	Octa		8.15	J	20	9.36	J	20	25		20	27.3		20
PCB-195	Octa			U	4.23	4.15	J	20	12.7	J	20	10.8	J	20
PCB-196	Octa		13.1	C,J	20	15.4	C,J	20	34.1	C	20	39.5	C	20
PCB-197	Octa		37.2		20		U	1.98	50.6		20	55.3		20
PCB-198	Octa			U	3		U	2.67		U	2.13		U	2.64
PCB-199	Octa		14	J	20	11.8	J	20	31.1		20	39.9		20
PCB-200	Octa			U	2.32		U	2.07		U	1.64		U	2.04
PCB-201	Octa			U	2.3	2.04		20		U	1.63		U	2.02
PCB-202	Octa			U	2.49		U	2.22	10.9	J	20	10.7	J	20
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC	5060		20	2590	J	20	8480		20	9890		20
PCB-205	Octa			U	3.1		U	1.48		U	2.86		U	2.74
PCB-206	Nona			U	4.13	3.53	J	20	7.34	J	20	7.77	J	20
PCB-207	Nona		20.7		20	10.7	J	20	34.8		20	42.9		20
PCB-208	Nona			U	3.34		U	1.53	4	J	20	4.24	J	20
PCB-209	Deca		24.9		20	12	J	20	43		20	48.2		20
Total Detected PCB Congeners			38229			24516			74343			85922		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CA-SSWI			LDW-Y2-IN-ENR+AC-CB-SSWI			LDW-Y2-IN-ENR+AC-CC-SSWI			LDW-Y2-IN-ENR-CA-SSWI			LDW-Y2-IN-ENR-CB-SSWI		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	2.87		U	2.5		U	2.42		U	2.7		U	3.44
PCB-169	Hexa			U	3.18		U	2.53		U	2.51		U	2.91		U	3.33
PCB-170	Hepta		47.8		20	39.9		20	46.3		20	50.6		20	40.6		20
PCB-171	Hepta		18.5	J	20	15.2	J	20	17.8	J	20	19.2	J	20	15.3	J	20
PCB-172	Hepta		125		20	142		20	129		20	125		20	134		20
PCB-173	Hepta			U	3.4		U	3.98		U	3.85		U	3.3		U	3.72
PCB-174	Hepta		62.6		20	46.3		20	60.2		20	56.4		20	50.8		20
PCB-175	Hepta		6.05	J	20		U	3.57		U	3.46		U	2.96		U	3.25
PCB-176	Hepta		11.5	J	20	8.37	J	20	11.3	J	20	12.4	J	20	9.41	J	20
PCB-177	Hepta		40.1		20	32.8		20	40.6		20	39.1		20	34.7		20
PCB-178	Hepta		19.1	J	20	16.2	J	20	20.3		20	19.2	J	20	18.9	J	20
PCB-179	Hepta		39.4		20	30.7		20	36.5		20	38.3		20	34.4		20
PCB-180	Hepta		140		20	119		20	135		20	149		20	128		20
PCB-181	Hepta		7.7	J	20	7.11	J	20		U	3.47	11	J	20	7.8	J	20
PCB-182	Hepta		87.8	C	20	73.9	C	20	88.2	C	20	91.2	C	20	76.4	C	20
PCB-183	Hepta		45.7		20	37.3		20	42.1		20	42.8		20	38.2		20
PCB-184	Hepta	PRC	4560		20	5020		20	4460		20	4540		20	5000		20
PCB-185	Hepta		11	J	20	8.86	J	20	7.6	J	20	11	J	20	8.46	J	20
PCB-186	Hepta		6.04	J	20	6.46	J	20	4.91	J	20	5.4	J	20	6.66	J	20
PCB-187	Hepta			C182			C182			C182			C182			C182	
PCB-188	Hepta		5.25	J	20	6.33	J	20	6.28	J	20	8.86	J	20	9.64	J	20
PCB-189	Hepta			U	1.8		U	1.94		U	1.97		U	1.78		U	2.03
PCB-190	Hepta		12.6	J	20	10.8	J	20	11.7	J	20	10.5	J	20	9.85	J	20
PCB-191	Hepta			U	2.36		U	2.76		U	2.67		U	2.29		U	2.57
PCB-192	Hepta	PRC	3600		20	4270		20	3800		20	3860		20	3960		20
PCB-193	Hepta		11.5	J	20	10.7	J	20	10.2	J	20	13.3	J	20	9.16	J	20
PCB-194	Octa		14.8	J	20	12.8	J	20	14.6	J	20	14.5	J	20	12.3	J	20
PCB-195	Octa		7.21	J	20	5.31	J	20	7.84	J	20	7.01	J	20	7.67	J	20
PCB-196	Octa		24.2	C	20	20.4	C	20	21.7	C	20	19.1	C,J	20	20.1	C	20
PCB-197	Octa		56.5		20	65.5		20	49.2		20	56.1		20	56.4		20
PCB-198	Octa			U	2.6		U	2.1		U	2.44		U	2.67		U	3.15
PCB-199	Octa		28.3		20	20.8		20	25.1		20	25.2		20	22.4		20
PCB-200	Octa			U	1.86		U	1.5		U	1.74		U	1.91		U	2.04
PCB-201	Octa			U	1.92		U	1.55		U	1.8		U	1.97		U	2.11
PCB-202	Octa		8.37	J	20	5.28	J	20	8.45	J	20	7.99	J	20	7.49	J	20
PCB-203	Octa			C196			C196			C196			C196			C196	
PCB-204	Octa	PRC	9180		20	10400		20	9350		20	9240		20	10800		20
PCB-205	Octa			U	2.16		U	2.37		U	2.21		U	1.83		U	2.6
PCB-206	Nona		6.7	J	20	4.66	J	20	5.62	J	20	5.8	J	20	5.74	J	20
PCB-207	Nona		35.1		20	42.9		20	39.1		20	39.5		20	46		20
PCB-208	Nona			U	2.34	4.13	J	20	3.63	J	20		U	2.99	4.76	J	20
PCB-209	Deca		38.5		20	48		20	43.5		20	44.5		20	55.7		20
Total Detected PCB Congeners			50470			54534			52034			53940			58207		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CE-SSWI			LDW-Y2-SC-S010-TB			LDW-Y2-SU-S010-TB			LDW-Y2-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)	(pg)		(pg)	(pg)		(pg)
PCB-168	Hexa			U	3.04		U	1.76		U	1.5		U	1.51
PCB-169	Hexa			U	3.25		U	2.12		U	1.51		U	1.45
PCB-170	Hepta		40.3		20		U	2.13		U	1.83		U	2.66
PCB-171	Hepta		15.7	J	20		U	1.98		U	1.7		U	2.47
PCB-172	Hepta		104		20	114		20	122		20	94.1		20
PCB-173	Hepta			U	3.08		U	2.22		U	1.91		U	2.78
PCB-174	Hepta		61.9		20		U	1.93		U	1.66		U	2.41
PCB-175	Hepta			U	2.69		U	1.98		U	1.7		U	2.48
PCB-176	Hepta		10.4	J	20		U	1.39		U	1.19		U	1.73
PCB-177	Hepta		33.2		20		U	2.17		U	1.86		U	2.71
PCB-178	Hepta		17.9	J	20		U	2.01		U	1.72		U	2.51
PCB-179	Hepta		30.3		20		U	1.35		U	1.16		U	1.69
PCB-180	Hepta		108		20		U	2.04		U	1.75		U	2.54
PCB-181	Hepta			U	2.56		U	1.95		U	1.67		U	2.44
PCB-182	Hepta		73.3	C	20		UC	20		UC	20		UC	20
PCB-183	Hepta		36.6		20		U	1.77		U	1.52		U	2.21
PCB-184	Hepta	PRC	3480		20	5120		20	5190		20	3940		20
PCB-185	Hepta			U	2.76		U	1.97		U	1.69		U	2.46
PCB-186	Hepta			U	1.89		U	1.37		U	1.18		U	1.71
PCB-187	Hepta			C182			C182			C182			C182	
PCB-188	Hepta			U	2.32		U	1.52		U	1.24		U	2.06
PCB-189	Hepta			U	1.71		U	1.44		U	1.32		U	1.62
PCB-190	Hepta		10.4	J	20		U	1.59		U	1.36		U	1.98
PCB-191	Hepta			U	2.12		U	1.53		U	1.32		U	1.92
PCB-192	Hepta	PRC	2840		20	4100		20	3860		20	3140		20
PCB-193	Hepta		12.8	J	20		U	1.45		U	1.24		U	1.81
PCB-194	Octa		11.8	J	20		U	2.41		U	1.93		U	3.25
PCB-195	Octa		4.96	J	20		U	2.65		U	2.12		U	3.57
PCB-196	Octa		20.4	C	20		UC	20		UC	20		UC	20
PCB-197	Octa		38.4		20	56.7		20	50.4		20	47		20
PCB-198	Octa			U	2.79		U	1.65		U	1.75		U	1.56
PCB-199	Octa		16.9	J	20		U	1.72		U	1.83		U	1.63
PCB-200	Octa			U	1.81		U	1.15		U	1.22		U	1.09
PCB-201	Octa			U	1.87		U	1.16		U	1.23		U	1.1
PCB-202	Octa		6.37	J	20		U	1.26		U	1.34		U	1.19
PCB-203	Octa			C196			C196			C196			C196	
PCB-204	Octa	PRC	7440		20	10200		20	9280		20	7630		20
PCB-205	Octa			U	1.77		U	1.9		U	1.52		U	2.56
PCB-206	Nona		4.2	J	20		U	1.6		U	0.488		U	1.58
PCB-207	Nona		29.1		20	39		20	36.5		20	31.3		20
PCB-208	Nona			U	1.83		U	1.11		U	0.415		U	1.3
PCB-209	Deca		34.6		20	43.4		20	40.2		20	38.2		20
Total Detected PCB Congeners			44369			49643			49071			36969		

Notes

C: Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter. For example, PCB-20 co-elutes with PCB-21 and PCB-33.

J: Analyte concentration is below calibration range

PCB: Polychlorinated biphenyl

pg: picogram

PRC: Performance Reference Compound

U: Not detected at the Method Detection Limit (DL) shown in the second column for each sample.

TABLE A4

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010		LDW-Y2-SC-ENR+AC-CB-S010		LDW-Y2-SC-ENR+AC-CC-S010		LDW-Y2-SC-ENR-CC-S010		LDW-Y2-SC-ENR-CD-S010		LDW-Y2-SC-ENR-CE-S010		LDW-Y2-SU-ENR+AC-CA-S010	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.016139	48%	0.033006	74%	0.034254	75%	0.033126	71%	0.031267	69%	0.024480	60%	0.019211	67%
PCB-36	Tri	0.007494	26%	0.008442	29%	0.015922	48%	0.016247	46%	0.017263	48%	0.013296	39%	0.009452	42%
PCB-78	Tetra	0.004773	18%	0.005185	19%	0.009779	33%	0.010280	32%	0.009265	30%	0.008267	27%	0.005700	28%
PCB-104	Penta	0.001772	7%	OUTLIER		0.005481	20%	0.001935	7%	0.005165	18%	0.004175	15%	0.002433	13%
PCB-121	Penta	OUTLIER		OUTLIER		0.004854	18%	OUTLIER		0.002991	11%	0.001644	6%	OUTLIER	
PCB-142	Hexa	0.003860	15%	0.001655	7%	0.004755	18%	0.004953	17%	0.003828	13%	0.002730	10%	0.001804	10%
PCB-155	Hexa	0.000714	3%	OUTLIER		0.005617	20%	0.001771	6%	0.001535	6%	0.001820	7%	0.001066	6%
PCB-184	Hepta	OUTLIER		0.000537	2%	0.004629	17%	0.005712	19%	0.000655	2%	OUTLIER		0.000144	1%
PCB-192	Hepta	OUTLIER		0.000339	1%	0.004750	18%	0.005006	17%	OUTLIER		OUTLIER		0.000171	1%
PCB-204	Octa	OUTLIER		OUTLIER		0.003368	13%	0.001272	5%	OUTLIER		0.000498	2%	0.000042	0%
PRC Model	p-value	0.0300		0.0001		0.0010		0.0205		0.0001		0.0004		0.0000	
	r ²	0.73		0.98		0.76		0.57		0.94		0.89		0.96	
	Slope	-0.75		-0.96		-0.38		-0.47		-0.90		-0.73		-1.17	
	Y-intercept	2.14		3.54		0.28		0.76		3.28		2.21		4.67	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y2-SU-ENR+AC-CB-S010		LDW-Y2-SU-ENR+AC-CC-S010		LDW-Y2-SU-ENR-CA-S010		LDW-Y2-SU-ENR-CB-S010		LDW-Y2-SU-ENR-CC-S010		LDW-Y2-SU-S010-LCB		LDW-Y2-IN-ENR+AC-CA-S010	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.020114	68%	0.022955	73%	0.014035	55%	0.016324	61%	0.012365	51%	0.008342	38%	0.058611	90%
PCB-36	Tri	0.009912	43%	0.012652	51%	0.007506	35%	0.010188	44%	0.006914	33%	0.001771	10%	0.029435	69%
PCB-78	Tetra	0.007110	33%	0.009653	42%	0.005404	27%	0.006902	33%	0.004924	24%	OUTLIER		0.014301	43%
PCB-104	Penta	0.003782	19%	0.004610	23%	0.002611	14%	0.004726	24%	0.003627	19%	OUTLIER		0.010170	33%
PCB-121	Penta	0.001252	7%	OUTLIER		OUTLIER		OUTLIER		OUTLIER		OUTLIER		OUTLIER	
PCB-142	Hexa	0.004039	21%	0.005915	29%	0.002648	14%	0.003778	19%	0.001079	6%	OUTLIER		0.005413	19%
PCB-155	Hexa	0.002470	13%	0.004130	21%	0.002338	12%	0.003100	16%	0.003613	19%	OUTLIER		0.005782	20%
PCB-184	Hepta	0.001607	9%	0.003671	19%	0.000861	5%	0.000761	4%	0.000614	3%	OUTLIER		0.003467	13%
PCB-192	Hepta	0.000316	2%	0.004244	21%	0.000668	4%	0.000667	4%	0.001772	10%	0.001398	8%	0.004818	17%
PCB-204	Octa	0.001203	7%	0.003023	16%	0.001184	7%	0.000880	5%	0.001828	10%	OUTLIER		0.005196	18%
PRC Model	p-value	0.0032		0.0004		0.0002		0.0001		0.0063		0.4550		0.0004	
	r ²	0.68		0.85		0.88		0.91		0.68		0.57		0.85	
	Slope	-0.60		-0.36		-0.54		-0.64		-0.44		-0.32		-0.50	
	Y-intercept	1.35		0.11		0.95		1.66		0.34		-0.61		1.23	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y2-IN-ENR+AC-CB-S010		LDW-Y2-IN-ENR+AC-CC-S010		LDW-Y2-IN-ENR-CA-S010		LDW-Y2-IN-ENR-CB-S010		LDW-Y2-IN-ENR-CE-S010		LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI		LDW-Y2-SC-ENR+AC-CB-SSWI	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.045292	83%	0.050276	86%	0.054857	89%	0.036770	77%	0.050792	87%	0.025487	65%	0.035384	76%
PCB-36	Tri	0.016416	48%	0.019013	52%	0.026607	66%	0.011826	38%	0.024220	62%	0.013358	42%	0.019870	56%
PCB-78	Tetra	0.005774	20%	0.008059	27%	0.013416	42%	0.004709	17%	0.013766	43%	0.011140	37%	0.017613	51%
PCB-104	Penta	OUTLIER		0.004649	17%	0.011010	36%	0.002480	10%	0.006627	23%	0.004699	17%	0.013164	42%
PCB-121	Penta	0.002011	8%	0.004778	17%	0.009727	32%	0.001696	7%	0.004660	17%	0.006444	23%	0.015278	46%
PCB-142	Hexa	OUTLIER		0.001053	4%	0.004961	18%	OUTLIER		0.005312	19%	0.007398	26%	0.015140	46%
PCB-155	Hexa	OUTLIER		0.001970	7%	0.007101	25%	OUTLIER		0.004317	16%	0.005106	19%	0.014175	44%
PCB-184	Hepta	OUTLIER		OUTLIER		0.005892	21%	OUTLIER		0.003123	12%	0.007229	26%	0.015164	46%
PCB-192	Hepta	0.000677	3%	0.000687	3%	0.005100	19%	OUTLIER		0.002721	10%	0.006902	25%	0.015393	47%
PCB-204	Octa	0.001319	5%	0.001375	5%	0.004207	16%	OUTLIER		0.002984	11%	0.006026	22%	0.014587	45%
PRC Model	p-value	0.0139		0.0008		0.0001		0.0017		0.0002		0.0234		0.0231	
	r ²	0.81		0.82		0.86		0.97		0.84		0.49		0.50	
	Slope	-0.71		-0.77		-0.46		-1.29		-0.54		-0.22		-0.12	
	Y-intercept	2.14		2.57		0.98		5.38		1.37		-0.68		-0.99	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y2-SC-ENR+AC-CC-SSWI		LDW-Y2-SC-ENR-CC-SSWI		LDW-Y2-SC-ENR-CD-SSWI		LDW-Y2-SC-ENR-CE-SSWI		LDW-Y2-IN-ENR+AC-CA-SSWI		LDW-Y2-IN-ENR+AC-CB-SSWI		LDW-Y2-IN-ENR+AC-CC-SSWI	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.015663	47%	0.041992	80%	0.026466	63%	0.017099	47%	0.048088	85%	0.030456	70%	0.047832	85%
PCB-36	Tri	0.003414	13%	0.020559	54%	0.013887	41%	0.006699	22%	0.023791	61%	0.014047	42%	0.020952	56%
PCB-78	Tetra	0.002917	11%	0.014067	41%	0.008614	28%	0.003682	13%	0.013346	41%	0.008618	29%	0.011054	35%
PCB-104	Penta	0.001368	5%	0.007764	25%	0.009444	30%	OUTLIER		0.009424	31%	0.004739	17%	0.007827	26%
PCB-121	Penta	OUTLIER		0.008377	27%	0.005506	19%	OUTLIER		0.006428	22%	0.002356	9%	0.005420	19%
PCB-142	Hexa	OUTLIER		0.006932	23%	0.003245	12%	OUTLIER		0.005372	19%	0.004260	15%	0.005579	20%
PCB-155	Hexa	0.000471	2%	0.005885	20%	0.005982	20%	OUTLIER		0.005760	20%	0.002103	8%	0.004347	16%
PCB-184	Hepta	OUTLIER		0.006995	23%	0.003633	13%	0.001883	7%	0.003341	12%	0.000947	4%	0.003859	14%
PCB-192	Hepta	0.000342	1%	0.008406	27%	0.004036	14%	0.001592	6%	0.002768	10%	OUTLIER		0.001326	5%
PCB-204	Octa	OUTLIER		0.004758	16%	0.003219	11%	OUTLIER		0.001720	7%	OUTLIER		0.001184	5%
PRC Model	p-value	0.0013		0.0038		0.0002		0.0080		0.0000		0.0003		0.0000	
	r ²	0.94		0.75		0.83		0.93		0.96		0.90		0.92	
	Slope	-0.88		-0.35		-0.38		-0.48		-0.60		-0.78		-0.66	
	Y-intercept	2.72		0.23		0.30		0.61		1.75		2.55		2.04	

Notes

‰: percent

d: day

PCB: Polychlorinated biphenyl

The PRCs noted "OUTLIER" were removed from the calculations. See text for further details.

Table A4. Elimination Rates (k_e) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y2-IN-ENR-CA-SSWI		LDW-Y2-IN-ENR-CB-SSWI		LDW-Y2-IN-ENR-CE-SSWI	
		k_e	Steady State	k_e	Steady State	k_e	Steady State
		(d^{-1})	%	(d^{-1})	%	(d^{-1})	%
PCB-14	Di	0.046856	85%	0.042524	82%	0.049238	86%
PCB-36	Tri	0.021830	58%	0.014950	45%	0.022527	60%
PCB-78	Tetra	0.010947	36%	0.007241	25%	0.012288	39%
PCB-104	Penta	0.007017	25%	0.004322	16%	0.010042	33%
PCB-121	Penta	0.002982	11%	0.002066	8%	0.006592	23%
PCB-142	Hexa	0.004910	18%	0.001808	7%	0.005242	19%
PCB-155	Hexa	0.003394	13%	0.001069	4%	0.007060	25%
PCB-184	Hepta	0.003262	12%	0.001199	5%	0.005480	20%
PCB-192	Hepta	0.000856	3%	0.000562	2%	0.004095	15%
PCB-204	Octa	0.001403	5%	OUTLIER		0.002398	9%
PRC Model	p-value	0.0002		0.0000		0.0000	
	r^2	0.83		0.92		0.90	
	Slope	-0.67		-0.92		-0.50	
	Y-intercept	2.05		3.37		1.17	

TABLE A5

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS}
		(L/kg)
PCB-1	Mono	4.23
PCB-2	Mono	4.87
PCB-3	Mono	4.87
PCB-4	Di	4.64
PCB-5	Di	4.96
PCB-6	Di	4.96
PCB-7	Di	4.96
PCB-8	Di	4.96
PCB-9	Di	4.96
PCB-10	Di	4.64
PCB-11	Di	5.28
PCB-12	Di	5.28
PCB-13	Di	5.28
PCB-14	Di	5.28
PCB-15	Di	5.28
PCB-16	Tri	5.27
PCB-17	Tri	5.27
PCB-18	Tri	5.27
PCB-19	Tri	5.05
PCB-20	Tri	5.48
PCB-21	Tri	C020
PCB-22	Tri	5.48
PCB-23	Tri	5.48
PCB-24	Tri	5.27
PCB-25	Tri	5.48
PCB-26	Tri	5.48
PCB-27	Tri	5.27
PCB-28	Tri	5.48
PCB-29	Tri	5.48
PCB-30	Tri	5.27
PCB-31	Tri	5.48
PCB-32	Tri	5.27
PCB-33	Tri	C020
PCB-34	Tri	5.48
PCB-35	Tri	5.69
PCB-36	Tri	5.69
PCB-37	Tri	5.69
PCB-38	Tri	5.69
PCB-39	Tri	5.69
PCB-40	Tetra	5.78
PCB-41	Tetra	5.82
PCB-42	Tetra	5.78
PCB-43	Tetra	5.78
PCB-44	Tetra	5.78
PCB-45	Tetra	5.62
PCB-46	Tetra	5.62
PCB-47	Tetra	5.78
PCB-48	Tetra	5.78
PCB-49	Tetra	C043
PCB-50	Tetra	5.62
PCB-51	Tetra	5.62
PCB-52	Tetra	5.78
PCB-53	Tetra	5.62
PCB-54	Tetra	5.66
PCB-55	Tetra	5.94
PCB-56	Tetra	5.94
PCB-57	Tetra	5.94
PCB-58	Tetra	5.94

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS}
		(L/kg)
PCB-59	Tetra	C042
PCB-60	Tetra	C056
PCB-61	Tetra	5.94
PCB-62	Tetra	5.78
PCB-63	Tetra	5.94
PCB-64	Tetra	C041
PCB-65	Tetra	5.78
PCB-66	Tetra	5.94
PCB-67	Tetra	5.94
PCB-68	Tetra	5.94
PCB-69	Tetra	C052
PCB-70	Tetra	C061
PCB-71	Tetra	C041
PCB-72	Tetra	C041
PCB-73	Tetra	5.78
PCB-74	Tetra	5.94
PCB-75	Tetra	C048
PCB-76	Tetra	C066
PCB-77	Tetra	6.1
PCB-78	Tetra	6.1
PCB-79	Tetra	6.1
PCB-80	Tetra	6.1
PCB-81	Tetra	6.1
PCB-82	Penta	6.26
PCB-83	Penta	6.26
PCB-84	Penta	6.195
PCB-85	Penta	6.26
PCB-86	Penta	6.26
PCB-87	Penta	6.26
PCB-88	Penta	6.13
PCB-89	Penta	6.13
PCB-90	Penta	6.26
PCB-91	Penta	C088
PCB-92	Penta	C084
PCB-93	Penta	6.13
PCB-94	Penta	6.13
PCB-95	Penta	6.13
PCB-96	Penta	6.2
PCB-97	Penta	6.26
PCB-98	Penta	6.13
PCB-99	Penta	6.26
PCB-100	Penta	6.13
PCB-101	Penta	C090
PCB-102	Penta	C098
PCB-103	Penta	6.13
PCB-104	Penta	6.2
PCB-105	Penta	6.39
PCB-106	Penta	6.39
PCB-107	Penta	6.39
PCB-108	Penta	C107
PCB-109	Penta	6.26
PCB-110	Penta	6.26
PCB-111	Penta	6.325
PCB-112	Penta	C083
PCB-113	Penta	6.26
PCB-114	Penta	6.39
PCB-115	Penta	C111
PCB-116	Penta	C085

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS}
		(L/kg)
PCB-117	Penta	C087
PCB-118	Penta	C106
PCB-119	Penta	6.26
PCB-120	Penta	6.39
PCB-121	Penta	6.26
PCB-122	Penta	6.39
PCB-123	Penta	6.39
PCB-124	Penta	6.39
PCB-125	Penta	C087
PCB-126	Penta	6.52
PCB-127	Penta	6.52
PCB-128	Hexa	6.765
PCB-129	Hexa	6.71
PCB-130	Hexa	6.71
PCB-131	Hexa	6.66
PCB-132	Hexa	6.66
PCB-133	Hexa	C131
PCB-134	Hexa	6.61
PCB-135	Hexa	6.61
PCB-136	Hexa	6.7
PCB-137	Hexa	6.71
PCB-138	Hexa	6.71
PCB-139	Hexa	6.61
PCB-140	Hexa	6.61
PCB-141	Hexa	6.71
PCB-142	Hexa	6.61
PCB-143	Hexa	C134
PCB-144	Hexa	6.61
PCB-145	Hexa	6.7
PCB-146	Hexa	6.71
PCB-147	Hexa	6.61
PCB-148	Hexa	6.61
PCB-149	Hexa	C139
PCB-150	Hexa	6.7
PCB-151	Hexa	6.61
PCB-152	Hexa	6.7
PCB-153	Hexa	6.71
PCB-154	Hexa	6.61
PCB-155	Hexa	6.7
PCB-156	Hexa	6.82
PCB-157	Hexa	6.82
PCB-158	Hexa	6.71
PCB-159	Hexa	6.82
PCB-160	Hexa	C158
PCB-161	Hexa	C132
PCB-162	Hexa	C128
PCB-163	Hexa	C138
PCB-164	Hexa	C138
PCB-165	Hexa	C146
PCB-166	Hexa	6.71
PCB-167	Hexa	6.82
PCB-168	Hexa	6.71
PCB-169	Hexa	6.93
PCB-170	Hepta	7.15
PCB-171	Hepta	7.06
PCB-172	Hepta	7.15
PCB-173	Hepta	7.06
PCB-174	Hepta	7.06

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS}
		(L/kg)
PCB-175	Hepta	7.06
PCB-176	Hepta	7.17
PCB-177	Hepta	7.06
PCB-178	Hepta	7.06
PCB-179	Hepta	7.17
PCB-180	Hepta	7.15
PCB-181	Hepta	7.06
PCB-182	Hepta	7.06
PCB-183	Hepta	7.06
PCB-184	Hepta	7.17
PCB-185	Hepta	7.06
PCB-186	Hepta	7.17
PCB-187	Hepta	C182
PCB-188	Hepta	7.17
PCB-189	Hepta	7.25
PCB-190	Hepta	7.15
PCB-191	Hepta	7.15
PCB-192	Hepta	7.15
PCB-193	Hepta	7.15
PCB-194	Octa	7.59
PCB-195	Octa	7.51
PCB-196	Octa	7.51
PCB-197	Octa	7.63
PCB-198	Octa	7.51
PCB-199	Octa	7.63
PCB-200	Octa	7.63
PCB-201	Octa	7.51
PCB-202	Octa	7.63
PCB-203	Octa	C196
PCB-204	Octa	7.63
PCB-205	Octa	7.59
PCB-206	Nona	7.94
PCB-207	Nona	8.07
PCB-208	Nona	8.07
PCB-209	Deca	8.51

Notes

kg: kilogram

L: liter

PCB: Polychlorinated biphenyl

Log K_{PDMS} was referenced from Smedes et al. (2009). For co-eluters, log K_{PDMS} was obtained by averaging the K_{PDMS} values for each individual congener. LogK_{PDMS} is shown as the lower congener co-eluter for the higher congener co-eluters in the coelution. For example, PCB-20 co-elutes with PCB-21 and PCB-33; therefore, the K_{PDMS} value for PCB-21 is shown as the average K_{PDMS} for PCB-21 and PCB-33, while the K_{PDMS} for PCB-33 is shown as "C021".

TABLE A6

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010				LDW-Y2-SC-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		8.1	7.9	14	J	51				U	4.7
PCB-2	Mono					U	1.1				U	1.2
PCB-3	Mono					U	1.2				U	1.2
PCB-4	Di		77	66	150		23	84	83	87		20
PCB-5	Di					U	3.8				U	3.6
PCB-6	Di		34	24	68		14	32	30	36		11
PCB-7	Di		7.5	5.3	15	J	14	4.9	4.6	5.5	J	11
PCB-8	Di		180	120	360		14	150	140	160		11
PCB-9	Di		11	7.5	22	J	14	9.1	8.5	10	J	11
PCB-10	Di		8.2	6.9	16	J	23				U	7.2
PCB-11	Di					UB	9.5	0.38	0.33	0.45		6.6
PCB-12	Di					U	2.8				U	2.5
PCB-13	Di					U	2.8				U	2.7
PCB-14	Di	PRC										
PCB-15	Di		36	23	67		9.5	32	28	37		6.6
PCB-16	Tri		150	97	290		9.6	190	160	220		6.7
PCB-17	Tri		180	110	330		9.6	240	210	280		6.7
PCB-18	Tri		450	280	820		9.6	550	480	650		6.7
PCB-19	Tri		67	45	130		12	56	51	63		9.1
PCB-20	Tri		170	110	300	C	7.8	260	220	310	C	5.5
PCB-21	Tri					C020					C020	
PCB-22	Tri		85	54	150		7.8	130	110	150		5.5
PCB-23	Tri					U	0.87	1.3	1.1	1.5	J	5.5
PCB-24	Tri		23	14	42		9.6	27	24	32		6.7
PCB-25	Tri		29	18	49		7.8	39	33	47		5.5
PCB-26	Tri		53	34	91		7.8	74	63	88		5.5
PCB-27	Tri		20	13	37		9.6	21	18	24		6.7
PCB-28	Tri		230	140	390		7.8	340	290	400		5.5
PCB-29	Tri		3	1.9	5.1	J	7.8	4.3	3.7	5.1	J	5.5
PCB-30	Tri					U	0.8				U	0.64
PCB-31	Tri		220	140	380		7.8	340	290	400		5.5
PCB-32	Tri		120	77	230		9.6	150	130	180		6.7
PCB-33	Tri					C020					C020	
PCB-34	Tri		1.8	1.1	3	J	7.8	2	1.7	2.5	J	5.5
PCB-35	Tri		3	2	4.7	J	6.5	4.2	3.6	5.1	J	4.7
PCB-36	Tri	PRC										
PCB-37	Tri		39	26	62		6.5	48	41	57		4.7
PCB-38	Tri					U	0.74	1.4	1.2	1.7	J	4.7
PCB-39	Tri					U	0.76				U	0.49
PCB-40	Tetra		38	26	58		6	39	33	46		4.5
PCB-41	Tetra		160	110	240	C	5.8	150	130	180	C	4.4
PCB-42	Tetra		77	52	120	C	6	72	61	86	C	4.5
PCB-43	Tetra		170	120	260	C	6	150	130	180	C	4.5
PCB-44	Tetra		180	120	280		6	180	150	210		4.5
PCB-45	Tetra		59	38	96		6.9	64	54	77		4.9
PCB-46	Tetra		23	15	38		6.9	27	23	32		4.9
PCB-47	Tetra		59	40	91		6	50	42	59		4.5
PCB-48	Tetra		47	32	72	C	6	49	42	58	C	4.5
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		1.5	0.99	2.5	J	6.9	1.7	1.4	2	J	4.9
PCB-51	Tetra		17	11	28		6.9	18	15	22		4.9
PCB-52	Tetra		220	150	340	C	6	200	170	240	C	4.5
PCB-53	Tetra		53	35	86		6.9	55	46	65		4.9
PCB-54	Tetra		1.8	1.1	2.8	J	6.7	1.9	1.6	2.3	J	4.8
PCB-55	Tetra		5.6	3.9	8.3	L	5.3	4.8	4.1	5.6		4.2
PCB-56	Tetra		75	52	110	C L	5.3	67	57	79	C	4.2
PCB-57	Tetra		1.7	1.1	2.4	J L	5.3	1.2	1	1.4	J	4.2
PCB-58	Tetra					U L	0.6				U	0.6
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		140	95	200	C L	5.3	110	94	130	C	4.2
PCB-62	Tetra					U	0.7				U	0.59
PCB-63	Tetra		5.3	3.7	7.8	J L	5.3	4.6	3.9	5.4		4.2
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.74				U	0.64
PCB-66	Tetra		120	82	170	C L	5.3	98	84	120	C	4.2
PCB-67	Tetra		5.7	4	8.4	L	5.3	4.7	4	5.5		4.2
PCB-68	Tetra		2.1	1.5	3.1	J L	5.3	2.5	2.1	2.9	J	4.2
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		3.3	2.2	5	J	6	2.5	2.1	2.9	J	4.5
PCB-74	Tetra		61	42	90	L	5.3	52	45	62		4.2
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		6.2	4.4	9.1	L	4.7	5.9	5.1	7	L	4
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.7	1.2	2.5	J L	4.7	1.5	1.3	1.7	J L	4
PCB-80	Tetra					U L	0.49				U L	0.49
PCB-81	Tetra		4.3	3	6.2	J L	4.7	4.2	3.6	4.9	L	4
PCB-82	Penta		12	7.9	17	L	4.2	8.3	7.1	9.7	L	3.9
PCB-83	Penta		5	3.4	7.5	C L	4.2	4.1	3.5	4.8	C L	3.9
PCB-84	Penta		45	31	66	C L	4.4	43	37	51	C L	3.9
PCB-85	Penta		14	9.6	21	C L	4.2	11	9.7	13	C L	3.9
PCB-86	Penta		1.9	1.3	2.8	J L	4.2				U L	1.1
PCB-87	Penta		33	22	49	C L	4.2	25	22	29	C L	3.9
PCB-88	Penta					U C L	0.25				U C L	0.21
PCB-89	Penta		1.7	1.2	2.5	J L	4.6	2.2	1.9	2.6	J L	4
PCB-90	Penta		100	69	150	C L	4.2	83	71	96	C L	3.9
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	0.26				U L	0.24
PCB-94	Penta		1.1	0.74	1.5	J L	4.6	1	0.88	1.2	J L	4
PCB-95	Penta		120	82	170	L	4.6	100	89	120	L	4
PCB-96	Penta		1.7	1.2	2.5	J L	4.4	1.5	1.3	1.7	J L	3.9
PCB-97	Penta		30	20	45	L	4.2	22	19	25	L	3.9
PCB-98	Penta					U C L	0.27				U C L	0.22
PCB-99	Penta		42	29	63	L	4.2	33	28	38	L	3.9
PCB-100	Penta		2.3	1.6	3.3	J L	4.6	1.6	1.4	1.9	J L	4
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		3.1	2.2	4.5	J L	4.6	2.4	2	2.8	J L	4
PCB-104	Penta	PRC										
PCB-105	Penta		17	11	26	L	3.9	16	14	19	L	3.8
PCB-106	Penta		47	30	73	C L	3.9	45	38	52	C L	3.8
PCB-107	Penta		3.7	2.4	5.7	C J L	3.9	3.8	3.2	4.4	C L	3.8
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CC-S010				LDW-Y2-SC-ENR-CC-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	6.4	15	13	26	J	45
PCB-2	Mono					U	2				U	1.8
PCB-3	Mono					U	2.1				U	1.9
PCB-4	Di		120	100	150		27	220	170	410		20
PCB-5	Di					U	6.1				U	3.9
PCB-6	Di		52	43	66		15	79	56	140		12
PCB-7	Di					U	5.9	19	14	34		12
PCB-8	Di		230	190	300		15	410	290	730		12
PCB-9	Di					U	5.9	25	18	45		12
PCB-10	Di					U	12	20	16	37	J	20
PCB-11	Di					U	4.1				UB	6.9
PCB-12	Di					U	3.9				U	2.5
PCB-13	Di					U	4.1				U	2.5
PCB-14	Di	PRC										
PCB-15	Di		25	21	32		8.5	75	51	130		6.9
PCB-16	Tri		120	100	150		8.6	250	170	430		7
PCB-17	Tri		170	140	220		8.6	370	250	630		7
PCB-18	Tri		420	340	520		8.6	860	580	1500		7
PCB-19	Tri		70	57	89		13	120	85	220		10
PCB-20	Tri		160	130	190	C	6	400	270	660	C	5
PCB-21	Tri					C020					C020	
PCB-22	Tri		81	67	100		6	190	120	300		5
PCB-23	Tri					U	1.3	1.9	1.3	3.1	J	5
PCB-24	Tri		20	16	25		8.6	46	31	79		7
PCB-25	Tri		27	22	34		6	62	41	100		5
PCB-26	Tri		46	38	57		6	110	73	180		5
PCB-27	Tri		21	17	26		8.6	35	23	60		7
PCB-28	Tri		230	190	290		6	510	340	840		5
PCB-29	Tri		2.5	2	3	J	6	6.4	4.3	10		5
PCB-30	Tri					U	1				U	0.89
PCB-31	Tri		200	160	250		6	570	390	940		5
PCB-32	Tri		140	120	180		8.6	260	180	450		7
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.4	2.9	2	4.8	J	5
PCB-35	Tri		2.7	2.3	3.3	J	4.2	4.8	3.3	7.5		3.7
PCB-36	Tri	PRC										
PCB-37	Tri		28	24	34		4.2	79	54	120		3.7
PCB-38	Tri					U	1	1.9	1.3	3	J	3.7
PCB-39	Tri					U	1				U	0.61
PCB-40	Tetra		24	20	28		3.6	51	35	78		3.2
PCB-41	Tetra		89	75	110	C	3.4	200	140	300	C	3
PCB-42	Tetra		47	40	56	C	3.6	100	69	150	C	3.2
PCB-43	Tetra		100	87	120	C	3.6	220	150	330	C	3.2
PCB-44	Tetra		110	89	130		3.6	240	170	370		3.2
PCB-45	Tetra		42	35	51		4.8	91	61	140		4.1
PCB-46	Tetra		17	14	21		4.8	35	24	55		4.1
PCB-47	Tetra		36	31	44		3.6	72	49	110		3.2
PCB-48	Tetra		28	23	33	C	3.6	67	46	100	C	3.2
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		0.88	0.73	1.1	J	4.8	2.1	1.4	3.4	J	4.1
PCB-51	Tetra		12	9.7	14		4.8	25	17	40		4.1
PCB-52	Tetra		130	110	150	C	3.6	270	190	420	C	3.2
PCB-53	Tetra		36	30	44		4.8	81	55	130		4.1
PCB-54	Tetra		1.1	0.92	1.3	J	4.5	2.1	1.4	3.2	J	3.8
PCB-55	Tetra		2.8	2.4	3.3		2.8	6.1	4.3	9		2.6
PCB-56	Tetra		41	35	48	C	2.8	98	69	150	C	2.6
PCB-57	Tetra		0.64	0.55	0.76	J	2.8	1.4	0.99	2.1	J	2.6
PCB-58	Tetra					U	0.31	0.65	0.46	0.97	J	2.6
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		67	57	79	C	2.8	150	100	220	C	2.6
PCB-62	Tetra					U	0.36				U	0.43
PCB-63	Tetra		2.9	2.5	3.4		2.8	6.3	4.4	9.3		2.6
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.4				U	0.46
PCB-66	Tetra		59	51	70	C	2.8	130	88	190	C	2.6
PCB-67	Tetra		3	2.5	3.5		2.8	6.5	4.6	9.6		2.6
PCB-68	Tetra		0.91	0.77	1.1	J	2.8	1.8	1.2	2.6	J	2.6
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2	1.7	2.4	J	3.6	5	3.4	7.7		3.2
PCB-74	Tetra		31	26	37		2.8	69	48	100		2.6
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		2.9	2.5	3.3		2.2	6.6	4.7	9.5		2
PCB-78	Tetra	PRC										
PCB-79	Tetra		0.86	0.74	1	J	2.2	1.2	0.84	1.7	J	2
PCB-80	Tetra					U	0.2				U	0.24
PCB-81	Tetra		2.3	2	2.7		2.2	3.3	2.4	4.8		2
PCB-82	Penta		3.8	3.3	4.4		1.7	9	6.6	13		1.6
PCB-83	Penta		1.9	1.7	2.2	C	1.7	3.6	2.6	5	C	1.6
PCB-84	Penta		22	19	25	C	1.9	37	26	52	C	1.8
PCB-85	Penta		5.1	4.4	5.9	C	1.7	10	7.6	15	C	1.6
PCB-86	Penta		0.6	0.52	0.7	J	1.7	1.1	0.81	1.6	J	1.6
PCB-87	Penta		11	10	13	C	1.7	25	18	36	C	1.6
PCB-88	Penta					UC	0.16				UC	0.15
PCB-89	Penta		1	0.9	1.2	J	2.1	2	1.4	2.8		2
PCB-90	Penta		38	33	44	C	1.7	75	54	100	C	1.6
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.19				U	0.15
PCB-94	Penta		0.43	0.38	0.51	J	2.1	0.87	0.62	1.2	J	2
PCB-95	Penta		56	48	65		2.1	94	67	130		2
PCB-96	Penta		0.78	0.68	0.9	J	1.9	1.4	1	2	J	1.8
PCB-97	Penta		10	8.8	12		1.7	22	16	31		1.6
PCB-98	Penta					UC	0.17				UC	0.16
PCB-99	Penta		14	12	17		1.7	32	23	44		1.6
PCB-100	Penta		0.91	0.79	1.1	J	2.1	1.5	1.1	2.1	J	2
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		1.2	1	1.4	J	2.1	2.3	1.7	3.3		2
PCB-104	Penta	PRC										
PCB-105	Penta		5.9	5.1	6.8		1.4	11	7.7	15		1.4
PCB-106	Penta		16	14	18	C	1.4	29	21	41	C	1.4
PCB-107	Penta		1.3	1.1	1.5	C,J	1.4	2.3	1.7	3.2	C	1.4
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010				LDW-Y2-SC-ENR-CE-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		15	15	15	J	33	23	23	25	J	32
PCB-2	Mono					U	0.75				U	0.92
PCB-3	Mono		1.7	1.6	1.8	J	8	2.7	2.3	3.5	J	9.1
PCB-4	Di		160	160	170		13	310	290	390		14
PCB-5	Di					U	2.6				U	3.4
PCB-6	Di		45	43	51		6.7	100	87	140		7.9
PCB-7	Di		10	9.7	12		6.7	23	19	30		7.9
PCB-8	Di		240	230	270		6.7	560	470	740		7.9
PCB-9	Di		15	15	18		6.7	33	27	43		7.9
PCB-10	Di		20	19	20		13	24	22	29		14
PCB-11	Di		3.5	3.1	4.2		4	0.62	0.49	0.84		5.1
PCB-12	Di		3.1	2.7	3.8	J	4	5.5	4.4	7.4		5.1
PCB-13	Di		3.3	2.9	4	J	4	5.4	4.2	7.2		5.1
PCB-14	Di	PRC										
PCB-15	Di		50	43	60		4	95	75	130		5.1
PCB-16	Tri		170	140	200		4.1	270	210	360		5.2
PCB-17	Tri		190	160	230		4.1	370	290	500		5.2
PCB-18	Tri		460	400	550		4.1	950	750	1300		5.2
PCB-19	Tri		88	81	100		5.7	170	140	220		6.9
PCB-20	Tri		180	150	220	C	3.2	280	220	380	C	4.1
PCB-21	Tri					C020					C020	
PCB-22	Tri		89	76	110		3.2	140	110	180		4.1
PCB-23	Tri		0.66	0.56	0.8	J	3.2				U	0.53
PCB-24	Tri		28	25	34		4.1	52	41	69		5.2
PCB-25	Tri		32	27	39		3.2	48	37	63		4.1
PCB-26	Tri		54	45	65		3.2	86	67	110		4.1
PCB-27	Tri		22	19	27		4.1	38	30	51		5.2
PCB-28	Tri		250	210	300		3.2	390	300	520		4.1
PCB-29	Tri		2.5	2.2	3.1	J	3.2	4.2	3.3	5.6		4.1
PCB-30	Tri					U	0.37				U	0.47
PCB-31	Tri		280	240	340		3.2	430	330	560		4.1
PCB-32	Tri		130	110	150		4.1	270	210	360		5.2
PCB-33	Tri					C020					C020	
PCB-34	Tri		1.5	1.3	1.9	J	3.2	2.4	1.9	3.1	J	4.1
PCB-35	Tri		2.5	2.1	3	J	2.6	3.8	3	5		3.3
PCB-36	Tri	PRC										
PCB-37	Tri		42	36	51		2.6	58	46	75		3.3
PCB-38	Tri		1.3	1.1	1.6	J	2.6	2	1.6	2.6	J	3.3
PCB-39	Tri					U	0.29				U	0.45
PCB-40	Tetra		38	32	45		2.5	48	38	61		3
PCB-41	Tetra		150	130	180	C	2.4	200	160	250	C	2.9
PCB-42	Tetra		76	64	91	C	2.5	98	78	130	C	3
PCB-43	Tetra		170	140	200	C	2.5	220	170	280	C	3
PCB-44	Tetra		180	150	220		2.5	240	190	300		3
PCB-45	Tetra		61	51	74		2.8	86	67	110		3.5
PCB-46	Tetra		25	21	31		2.8	33	26	43		3.5
PCB-47	Tetra		58	49	70		2.5	73	58	93		3
PCB-48	Tetra		46	39	55	C	2.5	63	50	80	C	3
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		1.2	1	1.5	J	2.8	1.9	1.5	2.5	J	3.5
PCB-51	Tetra		17	15	21		2.8	24	19	31		3.5
PCB-52	Tetra		210	180	250	C	2.5	280	220	360	C	3
PCB-53	Tetra		57	48	69		2.8	79	62	100		3.5
PCB-54	Tetra		1.6	1.3	1.9	J	2.7	2.4	1.9	3.1	J	3.4
PCB-55	Tetra		5.9	5	6.9		2.2	6.8	5.5	8.6		2.6
PCB-56	Tetra		76	64	90	C	2.2	86	69	110	C	2.6
PCB-57	Tetra		1.1	0.9	1.3	J	2.2	1.4	1.1	1.8	J	2.6
PCB-58	Tetra		0.67	0.57	0.79	J	2.2	0.76	0.61	0.95	J	2.6
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		130	110	150	C	2.2	160	130	200	C	2.6
PCB-62	Tetra					U	0.28				U	0.55
PCB-63	Tetra		5.1	4.3	6		2.2	6.2	5	7.8		2.6
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.3				U	0.58
PCB-66	Tetra		110	98	140	C	2.2	150	120	180	C	2.6
PCB-67	Tetra		5.4	4.6	6.4		2.2	6.9	5.5	8.7		2.6
PCB-68	Tetra		1.3	1.1	1.6	J	2.2	2.1	1.7	2.6		2.6
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		3.3	2.8	3.9		2.5	3.8	3	4.9		3
PCB-74	Tetra		60	51	70		2.2	74	59	93		2.6
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		6.4	5.5	7.5		2	7.8	6.4	9.7	L	2.3
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.6	1.4	1.9	J	2	1.6	1.3	2	JL	2.3
PCB-80	Tetra					U	0.21				UL	0.37
PCB-81	Tetra		2.9	2.5	3.4		2	5	4.1	6.2	L	2.3
PCB-82	Penta		13	11	15	L	1.9	13	10	16	L	2.1
PCB-83	Penta		4.7	4	5.5	CL	1.9	5.2	4.2	6.4	CL	2.1
PCB-84	Penta		47	41	55	CL	2	54	44	66	CL	2.2
PCB-85	Penta		15	13	18	CL	1.9	17	14	21	CL	2.1
PCB-86	Penta		1.2	1.1	1.4	JL	1.9	1.9	1.6	2.4	JL	2.1
PCB-87	Penta		36	31	42	CL	1.9	41	33	50	CL	2.1
PCB-88	Penta					UC	0.14				UC L	0.14
PCB-89	Penta		2.1	1.8	2.4		2	2.2	1.8	2.7	JL	2.3
PCB-90	Penta		110	91	120	CL	1.9	120	96	150	CL	2.1
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.14				UL	0.15
PCB-94	Penta		0.92	0.79	1.1	J	2	1.2	0.97	1.5	JL	2.3
PCB-95	Penta		120	100	140		2	150	120	180	L	2.3
PCB-96	Penta		1.6	1.4	1.9	JL	2	1.9	1.5	2.3	JL	2.2
PCB-97	Penta		33	28	39	L	1.9	36	29	44	L	2.1
PCB-98	Penta					UC	0.16				UC L	0.16
PCB-99	Penta		45	39	53	L	1.9	50	40	61	L	2.1
PCB-100	Penta		1.7	1.5	2		2	1.9	1.6	2.4	L	2.3
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		3	2.6	3.5		2	3.6	2.9	4.5	L	2.3
PCB-104	Penta	PRC										
PCB-105	Penta		19	16	22	L	1.8	20	16	24	L	1.9
PCB-106	Penta		53	45	62	CL	1.8	54	44	67	CL	1.9
PCB-107	Penta		4	3.4	4.7	CL	1.8	4.5	3.6	5.5	CL	1.9
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CA-S010				LDW-Y2-SU-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		20	20	20	J	32	32	31	44	J	34
PCB-2	Mono					U	1.3				U	1.8
PCB-3	Mono					U	1.5				U	1.9
PCB-4	Di		240	240	240		12	300	260	460		15
PCB-5	Di					U	2.9				U	2.8
PCB-6	Di		75	74	80		6	110	85	180		8.3
PCB-7	Di		17	16	18		6	14	11	23		8.3
PCB-8	Di		290	290	310		6	310	250	500		8.3
PCB-9	Di		20	20	21		6	23	18	37		8.3
PCB-10	Di		23	23	23		12	20	17	30		15
PCB-11	Di		11	9.5	13		3.4				UB	5.1
PCB-12	Di		3.3	3	4	J	3.4	4.9	3.5	7.7	J	5.1
PCB-13	Di		3.6	3.2	4.3		3.4	3.7	2.6	5.8	J	5.1
PCB-14	Di	PRC										
PCB-15	Di		45	40	54		3.4	39	28	62		5.1
PCB-16	Tri		320	290	390		3.4	240	170	380		5.2
PCB-17	Tri		520	460	620		3.4	420	300	670		5.2
PCB-18	Tri		1200	1100	1500		3.4	1000	720	1600		5.2
PCB-19	Tri		130	130	150		5	150	110	240		7.2
PCB-20	Tri		490	410	610	C	2.7	260	180	400	C	3.9
PCB-21	Tri					C020					C020	
PCB-22	Tri		240	200	310		2.7	130	89	200		3.9
PCB-23	Tri		1.6	1.3	2	J	2.7				U	1.2
PCB-24	Tri		45	41	54		3.4	44	31	69		5.2
PCB-25	Tri		79	66	100		2.7	65	45	100		3.9
PCB-26	Tri		160	130	200		2.7	120	82	180		3.9
PCB-27	Tri		47	42	56		3.4	38	28	61		5.2
PCB-28	Tri		640	530	810		2.7	370	260	580		3.9
PCB-29	Tri		8.2	6.8	10		2.7	3.6	2.5	5.5	J	3.9
PCB-30	Tri					U	0.7				U	0.53
PCB-31	Tri		770	640	970		2.7	440	310	680		3.9
PCB-32	Tri		340	300	400		3.4	310	220	490		5.2
PCB-33	Tri					C020					C020	
PCB-34	Tri		5.6	4.7	7		2.7	5	3.5	7.7		3.9
PCB-35	Tri		4.2	3.3	5.3		2.4	2.5	1.8	3.7	J	3
PCB-36	Tri	PRC										
PCB-37	Tri		98	79	130		2.4	43	30	63		3
PCB-38	Tri		3.9	3.1	5		2.4	2.5	1.7	3.7	J	3
PCB-39	Tri					U	0.7				U	1
PCB-40	Tetra		140	110	180		2.4	78	55	110		2.7
PCB-41	Tetra		630	500	800	C	2.4	340	240	490	C	2.5
PCB-42	Tetra		280	230	360	C	2.4	160	120	240	C	2.7
PCB-43	Tetra		630	500	810	C	2.4	440	320	650	C	2.7
PCB-44	Tetra		740	590	950		2.4	450	320	660		2.7
PCB-45	Tetra		190	150	240		2.5	120	85	180		3.2
PCB-46	Tetra		82	66	100		2.5	50	35	75		3.2
PCB-47	Tetra		200	160	260		2.4	140	97	200		2.7
PCB-48	Tetra		190	150	240	C	2.4	100	73	150	C	2.7
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		3.4	2.8	4.4		2.5	2.9	2.1	4.4		3.2
PCB-51	Tetra		53	43	68		2.5	35	24	52		3.2
PCB-52	Tetra		840	670	1100	C	2.4	630	450	920	C	2.7
PCB-53	Tetra		170	140	220		2.5	120	82	180		3.2
PCB-54	Tetra		2.9	2.4	3.8		2.5	2.4	1.7	3.6	J	3.1
PCB-55	Tetra		16	13	20		2.3	6.6	4.7	9.3		2.2
PCB-56	Tetra		280	220	350	C	2.3	110	83	160	C	2.2
PCB-57	Tetra		3.6	2.9	4.6		2.3	2.6	1.9	3.7		2.2
PCB-58	Tetra		2.5	2	3.2		2.3	1.5	1.1	2.2	J	2.2
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		570	450	720	C	2.3	280	200	400	C	2.2
PCB-62	Tetra					U	0.69				U	0.7
PCB-63	Tetra		24	19	30		2.3	12	8.8	17		2.2
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.69				U	0.71
PCB-66	Tetra		430	340	550	C	2.3	210	150	300	C	2.2
PCB-67	Tetra		22	18	28		2.3	11	7.6	15		2.2
PCB-68	Tetra		6.3	5	7.9		2.3	4.3	3.1	6.2		2.2
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra					U	0.64				U	0.65
PCB-74	Tetra		250	200	320		2.3	120	84	160		2.2
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		25	20	31	L	2.4	8.3	6.1	12		1.8
PCB-78	Tetra	PRC										
PCB-79	Tetra		3.4	2.8	4.3	L	2.4	2.4	1.8	3.4		1.8
PCB-80	Tetra					U L	0.56				U	0.4
PCB-81	Tetra		9.6	7.7	12	L	2.4	4.4	3.2	6		1.8
PCB-82	Penta		50	41	62	L	2.4	24	18	32	L	1.5
PCB-83	Penta		21	17	26	C L	2.4	11	8.4	15	C L	1.5
PCB-84	Penta		190	150	240	C L	2.4	120	87	160	C	1.7
PCB-85	Penta		55	45	68	C L	2.4	27	20	36	C L	1.5
PCB-86	Penta					U L	0.51				U L	0.49
PCB-87	Penta		140	120	180	C L	2.4	73	54	98	C L	1.5
PCB-88	Penta					U C L	0.26				U C	0.16
PCB-89	Penta		9.9	8	12	L	2.4	5.3	3.9	7.3		1.8
PCB-90	Penta		390	320	480	C L	2.4	230	170	310	C L	1.5
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	0.26				U	0.17
PCB-94	Penta		3.6	2.9	4.5	L	2.4	2	1.5	2.8		1.8
PCB-95	Penta		440	360	550	L	2.4	280	210	380		1.8
PCB-96	Penta		7.3	5.9	9	L	2.4	3.3	2.4	4.5		1.7
PCB-97	Penta		5.9	4.8	7.3	L	2.4	66	49	89	L	1.5
PCB-98	Penta					U C L	0.29				U C	0.18
PCB-99	Penta		160	130	200	L	2.4	92	69	120	L	1.5
PCB-100	Penta		3.3	2.6	4.1	L	2.4	2	1.5	2.7		1.8
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		6.8	5.5	8.5	L	2.4	5.7	4.2	7.8		1.8
PCB-104	Penta	PRC										
PCB-105	Penta		81	66	99	L	2.5	32	24	43	L	1.3
PCB-106	Penta		200	170	250	C L	2.5	94	71	130	C L	1.3
PCB-107	Penta		18	15	22	C L	2.5	8.2	6.2	11	C L	1.3
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010				LDW-Y2-SU-ENR-CA-S010					LDW-Y2-SU-ENR-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		37	35	43		36	29	27	36	J	34	57	56	60		32
PCB-2	Mono					U	1.8				U	0.83	2.1	1.9	2.5	J	8.5
PCB-3	Mono					U	2	2.7	2.2	3.6	J	11	3.5	3.2	4.2	J	8.5
PCB-4	Di		890	790	1100		16	380	320	490		16	760	720	870		13
PCB-5	Di					U	3.5				U	2.5				U	2.7
PCB-6	Di		200	180	240		8.3	130	100	160		9.2	440	390	530		7.3
PCB-7	Di		40	35	47		8.3	21	17	27		9.2	40	35	48		7.3
PCB-8	Di		670	590	800		8.3	580	470	760		9.2	920	810	1100		7.3
PCB-9	Di		40	35	48		8.3	33	26	43		9.2	65	57	78		7.3
PCB-10	Di		57	51	68		16	25	22	33		16	62	59	71		13
PCB-11	Di		2.8	2.4	3.3		4.6	8.3	6.6	11		5.7	14	12	18		4.3
PCB-12	Di		3.6	3.1	4.3	J	4.6	7.7	6.1	10		5.7	14	12	17		4.3
PCB-13	Di		6	5.2	7		4.6	6	4.8	7.8		5.7	14	12	17		4.3
PCB-14	Di	PRC															
PCB-15	Di		36	31	42		4.6	95	76	120		5.7	100	87	130		4.3
PCB-16	Tri		660	570	770		4.7	370	290	480		5.7	670	560	820		4.4
PCB-17	Tri		980	850	1100		4.7	550	440	720		5.7	1100	940	1400		4.4
PCB-18	Tri		2600	2200	3000		4.7	1400	1100	1800		5.7	2700	2200	3300		4.4
PCB-19	Tri		400	350	470		7	230	180	300		8	330	290	400		6.2
PCB-20	Tri		530	460	610	C	3.2	420	340	540	C	4.3	660	550	820	C	3.3
PCB-21	Tri					C020					C020					C020	
PCB-22	Tri		250	220	290		3.2	210	160	260		4.3	340	280	420		3.3
PCB-23	Tri		2.2	1.9	2.6	J	3.2	1.3	1.1	1.7	J	4.3	2.9	2.4	3.6	J	3.3
PCB-24	Tri		90	78	110		4.7	70	55	91		5.7	91	77	110		4.4
PCB-25	Tri		100	87	120		3.2	78	62	100		4.3	190	150	230		3.3
PCB-26	Tri		210	180	240		3.2	140	110	180		4.3	370	300	450		3.3
PCB-27	Tri		87	76	100		4.7	52	41	68		5.7	99	84	120		4.4
PCB-28	Tri		690	600	800		3.2	590	470	750		4.3	960	800	1200		3.3
PCB-29	Tri		7.5	6.6	8.8		3.2	5.8	4.6	7.5		4.3	9	7.5	11		3.3
PCB-30	Tri					U	0.89				U	0.75				U	0.46
PCB-31	Tri		900	780	1000		3.2	680	550	880		4.3	1200	1000	1500		3.3
PCB-32	Tri		640	560	760		4.7	430	340	560		5.7	720	610	890		4.4
PCB-33	Tri					C020					C020					C020	
PCB-34	Tri		8.5	7.4	9.9		3.2	4.5	3.6	5.8		4.3	15	12	18		3.3
PCB-35	Tri		3.9	3.4	4.4		2.2	5	4.1	6.3		3.2	6.7	5.6	8.2		2.5
PCB-36	Tri	PRC															
PCB-37	Tri		61	53	70		2.2	82	66	100		3.2	110	90	130		2.5
PCB-38	Tri		4.6	4	5.3		2.2	3.3	2.7	4.2		3.2	5.2	4.3	6.3		2.5
PCB-39	Tri					U	0.77				U	0.36				U	0.72
PCB-40	Tetra		120	110	140		1.9	94	77	120		2.9	170	140	210		2.2
PCB-41	Tetra		520	460	600	C	1.8	400	330	500	C	2.7	740	620	900	C	2.1
PCB-42	Tetra		250	220	280	C	1.9	190	160	240	C	2.9	350	290	430	C	2.2
PCB-43	Tetra		680	600	780	C	1.9	470	380	590	C	2.9	920	770	1100	C	2.2
PCB-44	Tetra		780	680	890		1.9	510	420	640		2.9	980	820	1200		2.2
PCB-45	Tetra		220	190	250		2.5	150	120	190		3.6	260	220	320		2.7
PCB-46	Tetra		88	77	100		2.5	62	50	79		3.6	110	90	130		2.7
PCB-47	Tetra		210	180	240		1.9	170	140	210		2.9	290	240	350		2.2
PCB-48	Tetra		150	130	170	C	1.9	120	94	140	C	2.9	210	180	260	C	2.2
PCB-49	Tetra					C043					C043					C043	
PCB-50	Tetra		5.5	4.8	6.3		2.5	3.5	2.8	4.4		3.6	7	5.9	8.6		2.7
PCB-51	Tetra		59	52	69		2.5	40	32	51		3.6	72	60	89		2.7
PCB-52	Tetra		1200	1000	1300	C	1.9	660	530	810	C	2.9	1300	1100	1500	C	2.2
PCB-53	Tetra		210	180	240		2.5	140	110	170		3.6	250	210	310		2.7
PCB-54	Tetra		4.3	3.8	4.9		2.3	2.8	2.3	3.6	J	3.4	5.4	4.5	6.6		2.6
PCB-55	Tetra		9.9	8.8	11		1.4	9.1	7.5	11		2.4	12	10	15		1.9
PCB-56	Tetra		170	150	190	C	1.4	180	150	220	C	2.4	260	220	310	C	1.9
PCB-57	Tetra		3	2.7	3.4		1.4	3.1	2.6	3.8		2.4	5.7	4.8	6.9		1.9
PCB-58	Tetra		1.4	1.2	1.6	J	1.4	1.6	1.3	1.9	J	2.4	3.4	2.9	4.1		1.9
PCB-59	Tetra					C042					C042					C042	
PCB-60	Tetra					C056					C056					C056	
PCB-61	Tetra		420	370	480	C	1.4	360	300	440	C	2.4	570	480	680	C	1.9
PCB-62	Tetra					U	0.77				U	0.87				U	0.71
PCB-63	Tetra		16	15	19		1.4	15	13	19		2.4	27	22	32		1.9
PCB-64	Tetra					C041					C041					C041	
PCB-65	Tetra					U	0.78				U	0.87				U	0.72
PCB-66	Tetra		280	250	320	C	1.4	290	240	350	C	2.4	440	370	530	C	1.9
PCB-67	Tetra		13	11	15		1.4	14	11	17		2.4	22	18	26		1.9
PCB-68	Tetra		4.5	4	5.1		1.4	3.9	3.2	4.7		2.4	7.4	6.2	8.9		1.9
PCB-69	Tetra					C052					C052					C052	
PCB-70	Tetra					C061					C061					C061	
PCB-71	Tetra					C041					C041					C041	
PCB-72	Tetra					C041					C041					C041	
PCB-73	Tetra					U	0.72				U	0.81				U	0.66
PCB-74	Tetra		160	140	180		1.4	170	140	200		2.4	260	220	310		1.9
PCB-75	Tetra					C048					C048					C048	
PCB-76	Tetra					C066					C066					C066	
PCB-77	Tetra		11	9.8	12		1.1	15	12	18		1.9	20	17	23		1.6
PCB-78	Tetra	PRC															
PCB-79	Tetra		3.8	3.4	4.2		1.1	2.3	1.9	2.8		1.9	4.3	3.7	5.1		1.6
PCB-80	Tetra					U	0.37				U	0.48				U	0.41
PCB-81	Tetra		6.7	6	7.5		1.1	5.1	4.3	6.1		1.9	8.2	6.9	9.7		1.6
PCB-82	Penta		36	32	40		0.85	30	25	35	L	1.6	53	45	62		1.3
PCB-83	Penta		16	14	17	C	0.85	13	11	15	C L	1.6	23	20	27	C	1.3
PCB-84	Penta		180	160	200	C	0.94	130	110	150	C L	1.7	230	200	270	C	1.4
PCB-85	Penta		40	36	45	C	0.85	33	28	40	C L	1.6	60	51	71	C	1.3
PCB-86	Penta		1.6	1.5	1.8		0.85	2.5	2.1	3	L	1.6				U	0.4
PCB-87	Penta		120	110	130	C	0.85	86	73	100	C L	1.6	160	130	180	C	1.3
PCB-88	Penta					UC	0.12				UC	0.14				UC	0.11
PCB-89	Penta		7.6	6.8	8.6		1.1	5.8	4.9	7		1.9	11	9.3	13		1.5
PCB-90	Penta		360	320	400	C	0.85	260	220	310	C L	1.6	460	390	540	C	1.3
PCB-91	Penta					C088					C088					C088	
PCB-92	Penta					C084					C084					C084	
PCB-93	Penta					U	0.12				U	0.14				U	0.12
PCB-94	Penta		2.7	2.5	3.1		1.1	2.1	1.8	2.5		1.9	3.8	3.3	4.5		1.5
PCB-95	Penta		440	400	500		1.1	290	240	340		1.9	500	430	600		1.5
PCB-96	Penta		4.5	4	5		0.94	3.5	2.9	4.1	L	1.7	6.5	5.5	7.7		1.4
PCB-97	Penta		100	92	110		0.85	79	67	94	L	1.6	140	120	170		1.3
PCB-98</																	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR-CC-S010				LDW-Y2-SU-S010-LCB				LDW-Y2-IN-ENR+AC-CA-S010						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		29	24	48	J	40				U	63				U	930
PCB-2	Mono					U	1.3				U	16				U	40
PCB-3	Mono		3.7	2.6	5.9	J	13				U	14				U	27
PCB-4	Di		460	340	760		19				U	70				U	430
PCB-5	Di					U	3.3				U	14				U	3.7
PCB-6	Di		140	100	230		11				U	13				U	3.6
PCB-7	Di		27	19	44		11				U	14				U	3.7
PCB-8	Di		610	430	980		11				U	15	6.6	6.1	7.8	J	7.1
PCB-9	Di		31	22	49		11				U	14				U	3.8
PCB-10	Di		27	20	45		19				U	27				U	8.1
PCB-11	Di		1	0.71	1.5		6.7	0.81	0.21	6.5		12	1.2	1.1	1.4		3.9
PCB-12	Di		7	4.9	11		6.7				U	8.8				U	2.2
PCB-13	Di		10	7	15		6.7				U	9				U	2.2
PCB-14	Di	PRC															
PCB-15	Di		110	73	160		6.7				U	6.6	2.6	2.3	3.1	J	3.9
PCB-16	Tri		470	330	730		6.8	4.3	1.1	35	J	12	18	16	21		3.9
PCB-17	Tri		640	450	980		6.8	7.6	2	62	J	12	34	30	40		3.9
PCB-18	Tri		1500	1100	2400		6.8	12	3.3	100		12	66	58	79		3.9
PCB-19	Tri		240	160	370		9.6				U	6.9	4.8	4.4	5.7	J	6
PCB-20	Tri		520	370	770	C	4.9	1.5	0.4	9.7	C,J	8.6	5.8	5	7	C	2.7
PCB-21	Tri					C020					C020					C020	
PCB-22	Tri		270	190	400		4.9				U	1.1	3.7	3.2	4.5		2.7
PCB-23	Tri		1.8	1.3	2.6	J	4.9				U	1.1				U	0.37
PCB-24	Tri		60	42	91		6.8				U	3.3	6.6	5.8	7.9		3.9
PCB-25	Tri		93	66	140		4.9				U	1.2	2.1	1.9	2.6	J	2.7
PCB-26	Tri		170	120	250		4.9				U	1.1	3.8	3.3	4.6		2.7
PCB-27	Tri		73	51	110		6.8				U	3.3	4.3	3.8	5.1		3.9
PCB-28	Tri		790	560	1200		4.9	1.7	0.45	11	J	8.6	11	9.4	13		2.7
PCB-29	Tri		8.1	5.7	12		4.9				U	1.1				U	0.36
PCB-30	Tri					U	0.78				U	3.2				U	1.4
PCB-31	Tri		770	540	1100		4.9	2.1	0.56	14	J	8.6	11	9.1	13		2.7
PCB-32	Tri		460	320	700		6.8	6.7	1.8	54	J	12	24	21	29		3.9
PCB-33	Tri					C020					C020					C020	
PCB-34	Tri		6.5	4.6	9.6		4.9				U	1.1				U	0.37
PCB-35	Tri		7	5.1	10		3.6				U,L	0.94				U	0.31
PCB-36	Tri	PRC															
PCB-37	Tri		100	76	150		3.6				U,L	0.89	2	1.8	2.5		1.9
PCB-38	Tri		2.9	2.1	4.2	J	3.6				U,L	0.87				U	0.28
PCB-39	Tri					U	0.54				U,L	0.86				U	0.28
PCB-40	Tetra		100	76	140		3.2	2.4	0.66	12	J,L	5.3	6.9	5.9	8.3		1.7
PCB-41	Tetra		420	310	580	C	3	5.5	1.5	27	C,L	4.9	37	31	44	C	1.6
PCB-42	Tetra		200	140	270	C	3.2	3.1	0.83	15	C,J,L	5.3	16	14	19	C	1.7
PCB-43	Tetra		480	360	670	C	3.2	5.2	1.4	26	C,L	5.3	55	47	66	C	1.7
PCB-44	Tetra		550	410	770		3.2	9.6	2.6	48	L	5.3	50	43	60		1.7
PCB-45	Tetra		160	120	230		4	2.4	0.63	13	J,L	6.8	7.4	6.4	8.9		2.1
PCB-46	Tetra		65	47	93		4				U,L	0.93	2.7	2.3	3.2		2.1
PCB-47	Tetra		160	120	220		3.2	16	4.3	78	L	5.3	19	16	23		1.7
PCB-48	Tetra		120	91	170	C	3.2	2.8	0.76	14	C,J,L	5.3	9.9	8.5	12	C	1.7
PCB-49	Tetra					C043					C043					C043	
PCB-50	Tetra		4.2	3	6		4	1.1	0.28	6	J,L	6.8	0.84	0.72	1	J	2.1
PCB-51	Tetra		45	32	65		4	3.4	0.9	19	J,L	6.8	2.5	2.2	3.1		2.1
PCB-52	Tetra		650	480	910	C	3.2	12	3.3	61	C,L	5.3	92	79	110	C	1.7
PCB-53	Tetra		150	100	210		4	1.8	0.48	10	J,L	6.8	8.7	7.5	10		2.1
PCB-54	Tetra		3.9	2.8	5.6		3.8				U,L	0.55				U	0.24
PCB-55	Tetra		8.1	6.1	11		2.5	21	5.6	97	L	4.1	7.5	6.4	8.9		1.3
PCB-56	Tetra		160	120	220	C	2.5				U,C,L	0.59	3.2	2.7	3.7	C	1.3
PCB-57	Tetra		2.8	2.1	3.7		2.5				U,L	0.4	0.62	0.53	0.73	J	1.3
PCB-58	Tetra		1.4	1.1	1.9	J	2.5				U,L	0.4	0.33	0.29	0.4	J	1.3
PCB-59	Tetra					C042					C042					C042	
PCB-60	Tetra					C056					C056					C056	
PCB-61	Tetra		340	260	470	C	2.5	4.4	1.2	21	C,L	4.1	40	35	48	C	1.3
PCB-62	Tetra					U	1				U,L	0.49				U	0.21
PCB-63	Tetra		14	10	19		2.5				U,L	0.4	1.6	1.4	1.9		1.3
PCB-64	Tetra					C041					C041					C041	
PCB-65	Tetra					U	0.94				U,L	0.54				U	0.23
PCB-66	Tetra		260	200	350	C	2.5	3.1	0.84	14	C,J,L	4.1	35	30	42	C	1.3
PCB-67	Tetra		13	9.6	17		2.5				U,L	0.41	1.5	1.3	1.8		1.3
PCB-68	Tetra		5.1	3.8	6.9		2.5	5	1.4	23	L	4.1	1.8	1.5	2.1		1.3
PCB-69	Tetra					C052					C052					C052	
PCB-70	Tetra					C061					C061					C061	
PCB-71	Tetra					C041					C041					C041	
PCB-72	Tetra					C041					C041					C041	
PCB-73	Tetra					U	0.9	5.1	1.4	25	L	5.3	2	1.7	2.4		1.7
PCB-74	Tetra		150	120	210		2.5	2.3	0.61	11	J,L	4.1	16	14	19		1.3
PCB-75	Tetra					C048					C048					C048	
PCB-76	Tetra					C066					C066					C066	
PCB-77	Tetra		13	10	17		2				U,L	0.55	0.73	0.63	0.86	J	1
PCB-78	Tetra	PRC															
PCB-79	Tetra		3.1	2.3	4		2				U,L	0.49	0.33	0.29	0.39	J	1
PCB-80	Tetra					U	0.52	2.5	0.66	12	L	3.1				U	0.12
PCB-81	Tetra		5.2	4	6.9		2				U,L	0.46	0.67	0.57	0.79	J	1
PCB-82	Penta		24	18	31	L	1.6				U,L	0.25	1.7	1.5	2		0.81
PCB-83	Penta		10	8.1	13	C,L	1.6				U,C,L	0.17	0.87	0.75	1	C	0.81
PCB-84	Penta		110	82	140	C,L	1.8				U,C,J,L	2.7	8.3	7.2	9.7	C	0.89
PCB-85	Penta		29	23	38	C,L	1.6				U,C,L	0.17	2.8	2.4	3.3	C	0.81
PCB-86	Penta					U,L	0.52	0.79	0.2	3.9	J,L	2.4				U	0.17
PCB-87	Penta		73	57	95	C,L	1.6	0.53	0.13	2.6	C,J,L	2.4	6.3	5.4	7.3	C	0.81
PCB-88	Penta					U,C	0.26				U,C,L	0.12				U,C	0.066
PCB-89	Penta		5.7	4.4	7.5		1.9				U,L	0.21	0.23	0.2	0.27	J	0.98
PCB-90	Penta		220	170	280	C,L	1.6	1	0.25	5	C,J,L	2.4	16	14	18	C	0.81
PCB-91	Penta					C088					C088					C088	
PCB-92	Penta					C084					C084					C084	
PCB-93	Penta					U	0.29	3.1	0.81	14	L	3				U	0.073
PCB-94	Penta		2.1	1.6	2.8		1.9				U,L	0.14	0.19	0.16	0.22	J	0.98
PCB-95	Penta		290	220	380		1.9	3.1	0.81	15	L	3	33	28	39		0.98
PCB-96	Penta		3.8	2.9	4.9	L	1.7				U,L	0.08	0.21	0.18	0.25	J	0.88
PCB-97	Penta		66	51	85	L	1.6	0.42	0.1	2.1	J,L	2.4	5.1	4.4	6		0.81
PCB-98	Penta					U,C	0.27				U,C,L	0.13				U,C	0.071
PCB-99	Penta		89	69	110	L	1.6	0.48	0.12	2.4	J,L	2.4	6.7	5.8	7.9		0.81
PCB-100	Penta		2.4	1.8	3.1		1.9	0.93	0.24	4.4	J,L	3	0.41	0.36	0.49	J	0.98
PCB-101	Penta					C090	</										

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CB-S010				LDW-Y2-IN-ENR+AC-CC-S010					LDW-Y2-IN-ENR-CA-S010						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	
PCB-1	Mono					U	3.7					U	3.8				U	4
PCB-2	Mono					U	1					U	0.99				U	1.1
PCB-3	Mono					U	1.1					U	1.1				U	1.3
PCB-4	Di		17	16	26		14	13	13	16		13	29	27	32		U	14
PCB-5	Di					U	3.1					U	2.6				U	2.7
PCB-6	Di		7.3	6.1	13	J	7.8	5.9	5.2	8	J	7	9.8	9	11		U	7.5
PCB-7	Di					U	3					U	2.6				U	2.7
PCB-8	Di		17	14	30		7.8	13	12	18		7	19	18	22		U	7.5
PCB-9	Di					U	3.2					U	2.7				U	2.8
PCB-10	Di					U	6.3					U	5.6				U	5.9
PCB-11	Di					UB	4.8				UB	4.2					UB	4.1
PCB-12	Di					U	2.1					U	1.7				U	1.6
PCB-13	Di					U	2.1					U	1.8				U	1.6
PCB-14	Di	PRC																
PCB-15	Di		4.3	3.1	7.6	J	4.8	3.2	2.5	4.5	J	4.2	6	5.4	6.9		U	4.1
PCB-16	Tri		11	7.5	18		4.9	6.6	5.3	9.5		4.3	7.2	6.4	8.3		U	4.2
PCB-17	Tri		18	13	31		4.9	12	9.7	18		4.3	15	14	18		U	4.2
PCB-18	Tri		41	29	72		4.9	29	23	42		4.3	32	28	36		U	4.2
PCB-19	Tri		8.4	6.7	15		6.7	6	5.1	8.3		6	8	7.3	9.2		U	6.3
PCB-20	Tri		13	8.9	23	C	3.7	11	8.3	16	C	3.3	11	9.5	12	C	2.9	
PCB-21	Tri					C020					C020					C020		
PCB-22	Tri		8	5.4	14		3.7	6.8	5.2	9.8		3.3	6.3	5.6	7.3		U	2.9
PCB-23	Tri					U	1					U	0.8				U	1.2
PCB-24	Tri		3	2.1	5.3	J	4.9	2.1	1.7	3	J	4.3	2.6	2.3	3	J	4.2	
PCB-25	Tri		6.5	4.3	11		3.7	4.9	3.7	7.1		3.3	5	4.5	5.8		U	2.9
PCB-26	Tri		14	9.1	23		3.7	9.7	7.3	14		3.3	10	9.2	12		U	2.9
PCB-27	Tri		2.8	2	4.9	J	4.9	2	1.6	2.8	J	4.3	2.9	2.6	3.3	J	4.2	
PCB-28	Tri		27	18	47		3.7	24	18	34		3.3	24	21	28		U	2.9
PCB-29	Tri					U	0.99					U	0.77				U	1.1
PCB-30	Tri					U	0.49					U	0.6				U	0.59
PCB-31	Tri		28	19	48		3.7	28	21	40		3.3	20	18	23		U	2.9
PCB-32	Tri		11	7.6	19		4.9	8.9	7	13		4.3	8.4	7.5	9.7		U	4.2
PCB-33	Tri					C020					C020					C020		
PCB-34	Tri					U	1					U	0.79				U	1.2
PCB-35	Tri					U	0.95					U	0.74				U	0.96
PCB-36	Tri	PRC																
PCB-37	Tri		3.6	2.3	6		3	3.5	2.6	4.9		2.6	2.7	2.4	3.2		U	2
PCB-38	Tri					U	0.88					U	0.69				U	0.89
PCB-39	Tri					U	0.87					U	0.68				U	0.88
PCB-40	Tetra		6.3	4.1	10		2.7	4.7	3.5	6.6		2.4	4	3.6	4.6		U	1.7
PCB-41	Tetra		31	20	51	C	2.6	23	17	31	C	2.3	18	16	20	C	1.6	
PCB-42	Tetra		15	9.9	25	C	2.7	10	7.7	14	C	2.4	9.1	8	10	C	1.7	
PCB-43	Tetra		53	34	87	C	2.7	36	27	51	C	2.4	33	29	38	C	1.7	
PCB-44	Tetra		48	31	79		2.7	34	25	48		2.4	28	24	32		U	1.7
PCB-45	Tetra		7.6	5	13		3.2	6.9	5.1	9.8		2.8	5.8	5.1	6.6		U	2.3
PCB-46	Tetra		3.1	2	5.3	J	3.2	2.7	2	3.8	J	2.8	2.1	1.9	2.5	J	2.3	
PCB-47	Tetra		16	10	26		2.7	12	8.7	16		2.4	10	9.3	12		U	1.7
PCB-48	Tetra		7.9	5.1	13	C	2.7	5.7	4.2	7.9	C	2.4	4.7	4.2	5.4	C	1.7	
PCB-49	Tetra					C043					C043					C043		
PCB-50	Tetra		0.85	0.56	1.4	J	3.2	0.41	0.31	0.59	J	2.8	0.58	0.52	0.67	J	2.3	
PCB-51	Tetra		2.6	1.7	4.3	J	3.2	2.2	1.6	3.1	J	2.8	1.7	1.5	2	J	2.3	
PCB-52	Tetra		100	68	170	C	2.7	63	47	88	C	2.4	58	51	66	C	1.7	
PCB-53	Tetra		11	7.1	18		3.2	8	5.9	11		2.8	7.6	6.7	8.8		U	2.3
PCB-54	Tetra					U	0.39					U	0.38				U	0.28
PCB-55	Tetra		0.54	0.35	0.87		2.3	0.77	0.58	1.1		2.1	1.2	1.1	1.4		U	1.3
PCB-56	Tetra		11	7.1	18	C	2.3	7.7	5.8	10	C	2.1	5.1	4.5	5.8	C	1.3	
PCB-57	Tetra					U	0.34	0.6	0.45	0.82	J	2.1	0.41	0.37	0.47	J	1.3	
PCB-58	Tetra					U	0.34					U	0.34				U	0.21
PCB-59	Tetra					C042					C042					C042		
PCB-60	Tetra					C056					C056					C056		
PCB-61	Tetra		28	18	44	C	2.3	19	14	26	C	2.1	15	13	17	C	1.3	
PCB-62	Tetra					U	0.37					U	0.37				U	0.25
PCB-63	Tetra		1.4	0.94	2.3	J	2.3	0.97	0.73	1.3	J	2.1	0.67	0.6	0.76	J	1.3	
PCB-64	Tetra					C041					C041					C041		
PCB-65	Tetra					U	0.41					U	0.41				U	0.28
PCB-66	Tetra		23	15	37	C	2.3	18	13	24	C	2.1	14	13	16	C	1.3	
PCB-67	Tetra		1.2	0.77	1.9	J	2.3	0.84	0.63	1.1	J	2.1	0.66	0.58	0.75	J	1.3	
PCB-68	Tetra		0.86	0.56	1.4	J	2.3	0.57	0.43	0.78	J	2.1	0.49	0.44	0.56	J	1.3	
PCB-69	Tetra					C052					C052					C052		
PCB-70	Tetra					C061					C061					C061		
PCB-71	Tetra					C041					C041					C041		
PCB-72	Tetra					C041					C041					C041		
PCB-73	Tetra					U	0.34	0.7	0.52	0.98	J	2.4	0.82	0.72	0.94	J	1.7	
PCB-74	Tetra		11	7.4	18		2.3	7.9	5.9	11		2.1	6	5.3	6.8		U	1.3
PCB-75	Tetra					C048					C048					C048		
PCB-76	Tetra					C066					C066					C066		
PCB-77	Tetra		1.5	0.99	2.4	J	2	1.3	0.99	1.7	J	1.9	0.76	0.68	0.86	J	1	
PCB-78	Tetra	PRC																
PCB-79	Tetra		1.1	0.7	1.7	J	2	0.77	0.58	1	J	1.9	0.48	0.43	0.54	J	1	
PCB-80	Tetra					U	0.25	0.22	0.16	0.29	J	1.9				U	0.14	
PCB-81	Tetra		1.7	1.1	2.7	J	2	2.5	1.9	3.4		1.9	1.2	1.1	1.4		U	1
PCB-82	Penta		6.4	4.2	10	L	1.7	4.3	3.3	5.7	L	1.6	2.3	2.1	2.6		U	0.82
PCB-83	Penta		3.1	2	4.8	C L	1.7	2.4	1.8	3.2	C L	1.6	1.4	1.3	1.6	C	0.82	
PCB-84	Penta		31	20	48	C	1.8	20	15	26	C	1.7	13	12	15	C	0.91	
PCB-85	Penta		8.9	5.8	14	C L	1.7	5.9	4.5	7.8	C L	1.6	3.7	3.3	4.2	C	0.82	
PCB-86	Penta					U L	0.67				U L	1.1				U	0.37	
PCB-87	Penta		21	14	34	C L	1.7	14	11	19	C L	1.6	8.6	7.7	9.7	C	0.82	
PCB-88	Penta					U C	0.21				U C	0.19				U C	0.1	
PCB-89	Penta		1.1	0.7	1.7	J	1.9	0.85	0.64	1.1	J	1.8				U	0.37	
PCB-90	Penta		56	36	87	C L	1.7	37	28	48	C L	1.6	23	20	26	C	0.82	
PCB-91	Penta					C088					C088					C088		
PCB-92	Penta					C084					C084					C084		
PCB-93	Penta					U	0.23					U	0.21				U	0.11
PCB-94	Penta					U	0.23					U	0.21				U	0.11
PCB-95	Penta		85	56	130		1.9	54	41	72		1.8	37	33	42		U	1
PCB-96	Penta		0.74	0.49	1.2	J	1.8	0.58	0.44	0.77	J	1.7	0.3	0.26	0.33	J	0.9	
PCB-97	Penta		17	11	27	L	1.7	1.1	0.82	1.4	J L	1.6	7.7	6.9	8.6		U	0.82
PCB-98	Penta					U C	0.23				U C	0.2				U C	0.11	
PCB-99	Penta		23	15														

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-S010				LDW-Y2-IN-ENR-CE-S010				LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		13	13	13	J	38				U	5.8	21	16	31	J	78
PCB-2	Mono					U	0.97				U	1.7				U	2.5
PCB-3	Mono		3.7	3.7	3.8	J	8.8				U	1.8				U	2.8
PCB-4	Di		43	43	43		15	21	20	24	U	18	170	130	240	U	34
PCB-5	Di					U	2.6				U	3.5				U	8.3
PCB-6	Di		30	29	32		7.2	8.4	7.5	10	U	9.3	66	51	90	U	18
PCB-7	Di					U	2.6				U	3.5				U	8.1
PCB-8	Di		34	33	36		7.2	16	15	20	U	9.3	260	200	350	U	18
PCB-9	Di					U	2.7				U	3.5				U	7.9
PCB-10	Di					U	6	16	16	19	U	18				U	16
PCB-11	Di		0.32	0.29	0.37		4.3				UB	5.3				UB	9.8
PCB-12	Di					U	1.7				U	2.1				U	4.8
PCB-13	Di		4.3	3.8	5	J	4.3				U	2.2				U	5.1
PCB-14	Di	PRC															
PCB-15	Di		10	9	12		4.3	6.3	5.4	7.8		5.3	50	39	65		9.8
PCB-16	Tri		8.5	7.6	9.9		4.3	13	11	16		5.3	180	140	230		10
PCB-17	Tri		17	16	20		4.3	15	13	19		5.3	200	150	260		10
PCB-18	Tri		43	38	50		4.3	38	32	47		5.3	450	350	580		10
PCB-19	Tri		8.6	8.3	9.4		6.1	7.9	7	9.7		7.9	100	78	140		15
PCB-20	Tri		13	11	15	C	3.7	11	9.6	14	C	3.8	170	130	210	C	6.7
PCB-21	Tri					C020					C020					C020	
PCB-22	Tri		7.6	6.5	9		3.7	7.6	6.4	9.3		3.8	89	72	110		6.7
PCB-23	Tri					U	1.3				U	1.3				U	0.95
PCB-24	Tri		3.8	3.4	4.4	J	4.3	2	1.7	2.5	J	5.3	34	27	44		10
PCB-25	Tri		8.9	7.7	11		3.7	6.2	5.2	7.7		3.8	30	24	38		6.7
PCB-26	Tri		18	16	22		3.7	13	11	16		3.8	47	38	60		6.7
PCB-27	Tri		2.9	2.6	3.3	J	4.3	3.5	3	4.3	J	5.3	18	14	24		10
PCB-28	Tri		32	27	38		3.7	25	21	31		3.8	250	200	310		6.7
PCB-29	Tri					U	1.3				U	1.3	2.1	1.7	2.6	J	6.7
PCB-30	Tri					U	0.48				U	1.1				U	1.5
PCB-31	Tri		29	25	35		3.7	22	19	28		3.8	220	170	270		6.7
PCB-32	Tri		12	10	14		4.3	7.3	6.2	9		5.3	160	120	210		10
PCB-33	Tri					C020					C020					C020	
PCB-34	Tri					U	1.3				U	1.3	1.3	1.1	1.7	J	6.7
PCB-35	Tri					U	1.5				U	1.1	2.8	2.3	3.5	J	4.5
PCB-36	Tri	PRC															
PCB-37	Tri		4.7	4.1	5.5		3.5	3.8	3.2	4.6		2.8	35	29	43		4.5
PCB-38	Tri					U	1.4				U	0.96				U	0.73
PCB-39	Tri					U	1.4				U	0.98				U	0.74
PCB-40	Tetra		6.6	5.7	7.6		3.6	6.1	5.1	7.4		2.4	29	24	36		3.8
PCB-41	Tetra		35	31	41	C	3.6	29	24	35	C	2.3	110	90	130	C	3.5
PCB-42	Tetra		17	15	20	C	3.6	12	10	15	C	2.4	57	47	69	C	3.8
PCB-43	Tetra		60	52	70	C	3.6	49	41	60	C	2.4	120	100	150	C	3.8
PCB-44	Tetra		53	46	62		3.6	51	43	62		2.4	130	110	160		3.8
PCB-45	Tetra		8.3	7.2	9.8		3.6	6.9	5.8	8.4		3.1	48	39	60		5.1
PCB-46	Tetra		2.8	2.4	3.3	J	3.6	3.3	2.8	4		3.1	20	16	24		5.1
PCB-47	Tetra		19	16	22		3.6	13	11	16		2.4	44	36	53		3.8
PCB-48	Tetra		8.9	7.7	10	C	3.6	6.9	5.8	8.3	C	2.4	32	26	38	C	3.8
PCB-49	Tetra					C043					C043					C043	
PCB-50	Tetra		0.67	0.58	0.79	J	3.6				U	0.89	1	0.85	1.3	J	5.1
PCB-51	Tetra		2.1	1.8	2.4	J	3.6	1.9	1.6	2.4	J	3.1	14	12	18		5.1
PCB-52	Tetra		110	94	130	C	3.6	110	93	130	C	2.4	140	120	180	C	3.8
PCB-53	Tetra		11	9.8	13		3.6	9.6	8.1	12		3.1	45	37	56		5.1
PCB-54	Tetra					U	0.37				U	0.64	1.3	1.1	1.6	J	4.7
PCB-55	Tetra		2.6	2.2	3		3.7	2.2	1.8	2.6		1.9	2.6	2.2	3.2		2.8
PCB-56	Tetra		11	9.9	13	C	3.7	9.8	8.3	12	C	1.9	45	38	54	C	2.8
PCB-57	Tetra		0.97	0.83	1.1	J	3.7				U	0.51	0.79	0.66	0.94	J	2.8
PCB-58	Tetra		0.8	0.69	0.94	J	3.7				U	0.47				U	0.34
PCB-59	Tetra					C042					C042					C042	
PCB-60	Tetra					C056					C056					C056	
PCB-61	Tetra		35	30	41	C	3.7	30	25	36	C	1.9	79	67	95	C	2.8
PCB-62	Tetra					U	0.41				U	0.61				U	0.45
PCB-63	Tetra		1.8	1.5	2	J	3.7	1.3	1.1	1.6	J	1.9	2.7	2.3	3.3	J	2.8
PCB-64	Tetra					C041					C041					C041	
PCB-65	Tetra					U	0.45				U	0.65				U	0.46
PCB-66	Tetra		33	28	38	C	3.7	25	21	30	C	1.9	69	58	82	C	2.8
PCB-67	Tetra		1.4	1.2	1.6	J	3.7	1.3	1.1	1.5	J	1.9	3.3	2.8	3.9		2.8
PCB-68	Tetra		0.76	0.66	0.89	J	3.7	0.81	0.68	0.97	J	1.9	0.88	0.75	1.1	J	2.8
PCB-69	Tetra					C052					C052					C052	
PCB-70	Tetra					C061					C061					C061	
PCB-71	Tetra					C041					C041					C041	
PCB-72	Tetra					C041					C041					C041	
PCB-73	Tetra		2.2	1.9	2.6		3.6				U	0.57	2.7	2.3	3.3		3.8
PCB-74	Tetra		14	12	16		3.7	12	10	15		1.9	36	30	43		2.8
PCB-75	Tetra					C048					C048					C048	
PCB-76	Tetra					C066					C066					C066	
PCB-77	Tetra		2.2	1.8	2.6	JL	4	1.4	1.2	1.7	J	1.6	4	3.4	4.7		2
PCB-78	Tetra	PRC															
PCB-79	Tetra		1.4	1.2	1.7	JL	4	0.75	0.64	0.89	J	1.6	0.69	0.59	0.81	J	2
PCB-80	Tetra					U	0.41				U	0.35				U	0.22
PCB-81	Tetra		5	4.2	6	L	4	2.5	2.1	2.9		1.6	1.4	1.2	1.7	J	2
PCB-82	Penta		10	8.3	13	L	4.3	5.1	4.4	6		1.3	3.4	2.9	4		1.5
PCB-83	Penta		6.3	5	7.9	CL	4.3	2.8	2.4	3.3	C	1.3	1.7	1.4	1.9	C	1.5
PCB-84	Penta		51	42	63	CL	4.2	31	27	37	C	1.4	17	15	20	C	1.7
PCB-85	Penta		15	12	19	CL	4.3	6.9	5.9	8.1	C	1.3	4.2	3.7	4.9	C	1.5
PCB-86	Penta					UL	1.4				U	0.47				U	0.4
PCB-87	Penta		37	30	47	CL	4.3	20	17	23	C	1.3	9.9	8.6	12	C	1.5
PCB-88	Penta					UCL	0.33				UC	0.26				UC	0.15
PCB-89	Penta					UL	1.1	0.92	0.78	1.1	J	1.5	1	0.88	1.2	J	1.9
PCB-90	Penta		98	78	120	CL	4.3	57	48	66	C	1.3	33	28	38	C	1.5
PCB-91	Penta					C088					C088					C088	
PCB-92	Penta					C084					C084					C084	
PCB-93	Penta					UL	0.37				U	0.27				U	0.16
PCB-94	Penta					UL	0.37	0.61	0.52	0.72	J	1.5				U	0.17
PCB-95	Penta		130	110	150	L	4	72	61	85		1.5	49	42	58		1.9
PCB-96	Penta		1.3	1.1	1.6	JL	4.2	0.67	0.57	0.79	J	1.4	0.6	0.51	0.7	J	1.7
PCB-97	Penta		1.7	1.4	2.1	JL	4.3	16	13	18		1.3	9.3	8	11		1.5
PCB-98	Penta					UCL	0.36				UC	0.29				UC	0.17
PCB-99	Penta		42	34	52	L	4.3	23	20	27		1.3	14	12	16		1.5
PCB-100	Penta		2.1	1.7	2.5	JL	4	0.71	0.61	0.84	J	1.5	0.79	0.67	0.92	J	1.9
PCB-101	Penta					C090											

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI				LDW-Y2-SC-ENR+AC-CC-SSWI				LDW-Y2-SC-ENR-CC-SSWI						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	13	18	18	21	J	66	39	35	47	J	110
PCB-2	Mono					U	3.4				U	2.9				U	3.5
PCB-3	Mono					U	3.7				U	3				U	3.8
PCB-4	Di		180	160	210		38	220	190	300		31	440	380	540		50
PCB-5	Di					U	4.3				U	6.5				U	11
PCB-6	Di		53	47	61		19	87	66	130		21	120	99	140		27
PCB-7	Di		10	9.3	12	J	19	13	9.6	18	J	21	34	29	42		27
PCB-8	Di		270	240	310		19	380	290	550		21	530	450	660		27
PCB-9	Di		14	12	16	J	19	28	21	40		21	34	29	42		27
PCB-10	Di		14	13	17	J	38	20	17	28	J	31	42	36	52	J	50
PCB-11	Di					UB	9.6				UB	16				U	6.9
PCB-12	Di		3.4	3	3.8	J	9.6	6.6	4.8	9.3	J	16				U	6.7
PCB-13	Di		2.9	2.6	3.3	J	9.6	6.3	4.6	9	J	16				U	7
PCB-14	Di	PRC															
PCB-15	Di		40	36	45		9.6	88	64	120		16	68	57	83		15
PCB-16	Tri		160	150	180		9.8	270	200	380		16	210	180	260		15
PCB-17	Tri		180	160	200		9.8	350	260	490		16	290	250	360		15
PCB-18	Tri		450	400	500		9.8	850	620	1200		16	710	600	870		15
PCB-19	Tri		90	80	100		16	130	95	180		19	150	130	190		22
PCB-20	Tri		140	130	160	C	6.2	400	290	540	C	14	240	200	290	C	10
PCB-21	Tri					C020					C020					C020	
PCB-22	Tri		72	65	80		6.2	200	150	280		14	120	100	150		10
PCB-23	Tri					U	1.8				U	2.8				U	1.5
PCB-24	Tri		22	20	25		9.8	52	38	74		16	39	33	48		15
PCB-25	Tri		23	21	26		6.2	66	49	90		14	44	37	53		10
PCB-26	Tri		38	34	42		6.2	110	83	150		14	70	59	84		10
PCB-27	Tri		20	18	23		9.8	29	22	42		16	32	27	39		15
PCB-28	Tri		190	180	220		6.2	530	390	730		14	360	310	430		10
PCB-29	Tri					U	1.9	5.2	3.8	7.1	J	14	3.5	3	4.3	J	10
PCB-30	Tri					U	1.2				U	2				U	1.7
PCB-31	Tri		170	160	190		6.2	570	420	780		14	330	280	390		10
PCB-32	Tri		120	110	140		9.8	270	190	380		16	230	200	280		15
PCB-33	Tri					C020					C020					C020	
PCB-34	Tri					U	2.2	4.3	3.2	5.9	J	14	3.2	2.8	3.9	J	10
PCB-35	Tri					U	1.5				U L	3.3	2.8	2.4	3.3	J	7
PCB-36	Tri	PRC															
PCB-37	Tri		23	21	25		4	86	65	110	L	12	38	32	45		7
PCB-38	Tri					U	1.3				U L	2.9				U	1.2
PCB-39	Tri					U	1.4				U L	2.9				U	1.2
PCB-40	Tetra		18	16	19		3.3	75	58	97	L	12	31	26	36		6
PCB-41	Tetra		69	63	75	C	3	290	230	380	C L	12	120	100	140	C	5.6
PCB-42	Tetra		34	31	37	C	3.3	140	100	180	C L	12	61	53	72	C	6
PCB-43	Tetra		79	73	87	C	3.3	300	230	390	C L	12	140	120	160	C	6
PCB-44	Tetra		88	81	97		3.3	330	260	430	L	12	150	130	170		6
PCB-45	Tetra		36	33	40		4.6	110	79	140		13	58	49	69		7.9
PCB-46	Tetra		15	14	16		4.6	45	34	60		13	23	20	27		7.9
PCB-47	Tetra		26	24	29		3.3	100	78	130	L	12	48	41	56		6
PCB-48	Tetra		23	22	26	C	3.3	88	68	110	C L	12	41	36	49	C	6
PCB-49	Tetra					C043					C043					C043	
PCB-50	Tetra		1.1	1	1.2	J	4.6	2.7	2.1	3.7	J	13	1.4	1.2	1.6	J	7.9
PCB-51	Tetra		9	8.2	9.9		4.6	29	22	39		13	17	15	20		7.9
PCB-52	Tetra		97	90	110	C	3.3	380	290	500	C L	12	180	150	210	C	6
PCB-53	Tetra		32	29	36		4.6	97	74	130		13	55	47	66		7.9
PCB-54	Tetra		1	0.95	1.1	J	4.3	3.4	2.6	4.5	J L	12	1.6	1.3	1.9	J	7.4
PCB-55	Tetra		1.1	1.1	1.2		2.3	8.6	6.8	11	L	11	3.2	2.8	3.8		4.6
PCB-56	Tetra		24	22	26	C	2.3	120	93	150	C L	11	52	45	61	C	4.6
PCB-57	Tetra					U	0.42	3.1	2.4	4	J L	11				U	0.77
PCB-58	Tetra					U	0.4				U L	1.9				U	0.73
PCB-59	Tetra					C042					C042					C042	
PCB-60	Tetra					C056					C056					C056	
PCB-61	Tetra		48	45	52	C	2.3	230	180	290	C L	11	83	72	97	C	4.6
PCB-62	Tetra					U	0.54				U L	1.9				U	0.93
PCB-63	Tetra		2	1.8	2.1	J	2.3	10	8.1	13	J L	11	3.3	2.9	3.8	J	4.6
PCB-64	Tetra					C041					C041					C041	
PCB-65	Tetra					U	0.56				U L	2				U	0.97
PCB-66	Tetra		38	35	42	C	2.3	200	160	250	C L	11	73	63	85	C	4.6
PCB-67	Tetra		1.9	1.7	2	J	2.3	12	9.5	15	L	11	3.3	2.8	3.8	J	4.6
PCB-68	Tetra		0.81	0.75	0.88	J	2.3	3.2	2.5	4.1	J L	11				U	0.69
PCB-69	Tetra					C052					C052					C052	
PCB-70	Tetra					C061					C061					C061	
PCB-71	Tetra					C041					C041					C041	
PCB-72	Tetra					C041					C041					C041	
PCB-73	Tetra		1.6	1.4	1.7	J	3.3	6.8	5.2	8.8	J L	12	2.8	2.4	3.2	J	6
PCB-74	Tetra		20	19	22		2.3	110	85	140	L	11	37	32	43		4.6
PCB-75	Tetra					C048					C048					C048	
PCB-76	Tetra					C066					C066					C066	
PCB-77	Tetra		1.8	1.7	2		1.7	14	11	17	L	10	4	3.5	4.6		3.5
PCB-78	Tetra	PRC															
PCB-79	Tetra		0.34	0.32	0.37	J	1.7	2	1.6	2.5	J L	10	0.81	0.71	0.94	J	3.5
PCB-80	Tetra					U	0.25				U L	1.5				U	0.49
PCB-81	Tetra		0.85	0.79	0.91	J	1.7	8.5	6.8	11	J L	10	2.3	2	2.6	J	3.5
PCB-82	Penta		1.7	1.5	1.8		1.2	17	14	22	L	9.9	4.1	3.6	4.6		2.6
PCB-83	Penta		0.73	0.69	0.79	C,J	1.2	7.2	5.7	9	C,J L	9.9	2.1	1.8	2.4	C,J	2.6
PCB-84	Penta		8	7.5	8.6	C	1.4	72	57	90	C L	10	25	22	29	C	3
PCB-85	Penta		2.1	1.9	2.2	C	1.2	22	17	27	C L	9.9	5.4	4.8	6.2	C	2.6
PCB-86	Penta					U	0.28	4.3	3.4	5.4	J L	9.9				U	0.7
PCB-87	Penta		5.1	4.8	5.5	C	1.2	52	41	65	C L	9.9	14	12	16	C	2.6
PCB-88	Penta					UC	0.15				UC L	0.97				UC	0.2
PCB-89	Penta		0.49	0.46	0.53	J	1.6	3.8	3	4.7	J L	10	1.5	1.3	1.7	J	3.3
PCB-90	Penta		16	15	17	C	1.2	150	120	200	C L	9.9	47	41	53	C	2.6
PCB-91	Penta					C088					C088					C088	
PCB-92	Penta					C084					C084					C084	
PCB-93	Penta					U	0.16				U L	1				U	0.21
PCB-94	Penta					U	0.17				U L	1.1				U	0.23
PCB-95	Penta		23	21	25		1.6	180	140	230	L	10	61	54	70		3.3
PCB-96	Penta		0.35	0.33	0.38	J	1.4	2.7	2.1	3.4	J L	10	0.79	0.69	0.9	J	2.9
PCB-97	Penta		4.2	3.9	4.5		1.2	43	34	54	L	9.9	12	11	14		2.6
PCB-98	Penta					UC	0.17				UC L	1.1				UC	0.23
PCB-99	Penta		6.1	5.8	6.6		1.2	63	50	79	L	9.9	19	17	21		2.6
PCB-100	Penta		0.32	0.29	0.34	J	1.6	3.4	2.7	4.3	J L	10	0.97	0.85	1.1	J	3.3
PCB-101	Penta</																

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-SSWI				LDW-Y2-SC-ENR-CE-SSWI				LDW-Y2-IN-ENR+AC-CA-SSWI						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		35	31	43	J	40	51	42	71		43				U	6
PCB-2	Mono					U	1.3					1.7				U	1.6
PCB-3	Mono		3.7	3.1	4.6	J	12	5.7	4.3	8		15				U	1.7
PCB-4	Di		370	320	470		18	550	420	770		21	22	21	22	U	13
PCB-5	Di					U	4.8					5.7				U	1.6
PCB-6	Di		110	88	130		10	170	130	230		13	6.9	6.6	7.4		6.6
PCB-7	Di		21	17	26		10	30	23	42		13				U	1.6
PCB-8	Di		510	420	620		10	770	580	1100		13	20	19	21		6.6
PCB-9	Di		29	25	36		10	42	32	59		13				U	1.6
PCB-10	Di		27	23	34		18	41	32	58		21				U	3.3
PCB-11	Di					UB	5.8					7.9	3.4	3.1	3.7		3.7
PCB-12	Di		6.9	5.8	8.4		5.8	12	9.5	17		7.9				U	0.98
PCB-13	Di		4.9	4.1	5.9	J	5.8	9.4	7.2	13		7.9				U	0.98
PCB-14	Di	PRC															
PCB-15	Di		83	70	100		5.8	170	130	220		7.9	5.6	5.2	6.1		3.7
PCB-16	Tri		210	170	250		5.9	390	300	530		8	8.6	8	9.4		3.7
PCB-17	Tri		290	240	350		5.9	520	400	700		8	16	15	18		3.7
PCB-18	Tri		680	570	830		5.9	1300	1000	1800		8	39	36	42		3.7
PCB-19	Tri		160	130	200		8.6	280	210	380		11	6.9	6.6	7.4		5.6
PCB-20	Tri		250	210	290	C	4.1	460	360	600	C	6	11	10	12	C	2.7
PCB-21	Tri					C020					C020					C020	
PCB-22	Tri		130	110	160		4.1	240	190	320		6	6.9	6.4	7.6		2.7
PCB-23	Tri		0.91	0.77	1.1	J	4.1	1.3	0.98	1.6	J	6				U	0.89
PCB-24	Tri		42	36	52		5.9	78	60	100		8	2.8	2.6	3.1	J	3.7
PCB-25	Tri		45	38	53		4.1	79	61	100		6	4.5	4.1	4.9		2.7
PCB-26	Tri		76	64	91		4.1	140	110	180		6	9.4	8.6	10		2.7
PCB-27	Tri		34	29	42		5.9	70	54	94		8	2.5	2.3	2.7	J	3.7
PCB-28	Tri		400	340	480		4.1	690	540	900		6	21	20	23		2.7
PCB-29	Tri		3.5	2.9	4.2	J	4.1	6	4.7	7.8		6				U	0.88
PCB-30	Tri					U	0.67				U	0.99				U	0.35
PCB-31	Tri		340	290	410		4.1	620	480	800		6	24	22	26		2.7
PCB-32	Tri		240	200	290		5.9	440	330	590		8	9.7	9	11		3.7
PCB-33	Tri					C020					C020					C020	
PCB-34	Tri		2.8	2.4	3.3	J	4.1	4.4	3.4	5.8	J	6				U	0.89
PCB-35	Tri		3	2.6	3.5		2.9	6.4	5.1	8.1		4.5				U	0.75
PCB-36	Tri	PRC															
PCB-37	Tri		50	43	59		2.9	91	72	120		4.5	3.1	2.8	3.4		1.9
PCB-38	Tri		1.2	1.1	1.5	J	2.9	2.1	1.7	2.7	J	4.5				U	0.66
PCB-39	Tri		0.96	0.83	1.1	J	2.9	1.3	1	1.6	J	4.5				U	0.68
PCB-40	Tetra		38	33	44		2.5	61	49	77		3.9	4.1	3.8	4.5		1.7
PCB-41	Tetra		140	120	160	C	2.4	230	180	290	C	3.7	20	18	22	C	1.6
PCB-42	Tetra		71	61	83	C	2.5	110	90	140	C	3.9	9.2	8.5	10	C	1.7
PCB-43	Tetra		150	130	180	C	2.5	240	200	310	C	3.9	33	30	36	C	1.7
PCB-44	Tetra		170	140	190		2.5	270	210	340		3.9	29	26	31		1.7
PCB-45	Tetra		67	57	79		3.3	110	86	140		4.9	5.6	5.1	6.1		2.1
PCB-46	Tetra		27	23	32		3.3	48	38	61		4.9	2.2	2	2.4		2.1
PCB-47	Tetra		51	44	59		2.5	80	64	100		3.9	10	9.2	11		1.7
PCB-48	Tetra		43	37	50	C	2.5	72	58	90	C	3.9	5.7	5.3	6.3	C	1.7
PCB-49	Tetra					C043					C043					C043	
PCB-50	Tetra		1.5	1.3	1.7	J	3.3	2.4	1.9	3.1	J	4.9	0.37	0.34	0.41	J	2.1
PCB-51	Tetra		20	17	23		3.3	32	25	40		4.9	1.7	1.6	1.9	J	2.1
PCB-52	Tetra		190	160	220	C	2.5	300	240	380	C	3.9	57	53	63	C	1.7
PCB-53	Tetra		63	54	75		3.3	100	83	130		4.9	7	6.4	7.7		2.1
PCB-54	Tetra		1.7	1.5	2	J	3.1	3	2.4	3.8	J	4.6				U	0.18
PCB-55	Tetra		3.9	3.4	4.5		2	6.1	5	7.6		3.2	1.4	1.3	1.5		1.4
PCB-56	Tetra		59	51	68	C	2	100	81	120	C	3.2	7.4	6.8	8	C	1.4
PCB-57	Tetra		0.88	0.77	1	J	2	1.6	1.3	1.9	J	3.2	0.37	0.34	0.4	J	1.4
PCB-58	Tetra					U	0.47				U	0.53				U	0.14
PCB-59	Tetra					C042					C042					C042	
PCB-60	Tetra					C056					C056					C056	
PCB-61	Tetra		100	88	120	C	2	170	130	200	C	3.2	21	19	23	C	1.4
PCB-62	Tetra					U	0.59				U	0.64				U	0.18
PCB-63	Tetra		3.9	3.4	4.4		2	6.4	5.2	8		3.2	0.8	0.74	0.87	J	1.4
PCB-64	Tetra					C041					C041					C041	
PCB-65	Tetra					U	0.61				U	0.66				U	0.19
PCB-66	Tetra		89	78	100	C	2	150	120	180	C	3.2	17	16	19	C	1.4
PCB-67	Tetra		4.2	3.7	4.9		2	0.83	0.68	1	J	3.2	0.96	0.88	1	J	1.4
PCB-68	Tetra		1.5	1.3	1.8		2	2.3	1.8	2.8		3.2	0.56	0.52	0.61	J	1.4
PCB-69	Tetra					C052					C052					C052	
PCB-70	Tetra					C061					C061					C061	
PCB-71	Tetra					C041					C041					C041	
PCB-72	Tetra					C041					C041					C041	
PCB-73	Tetra		2.9	2.5	3.4		2.5	4.9	3.9	6.2		3.9	0.73	0.67	0.8	J	1.7
PCB-74	Tetra		45	40	52		2	76	62	94		3.2	8.6	7.9	9.3		1.4
PCB-75	Tetra					C048					C048					C048	
PCB-76	Tetra					C066					C066					C066	
PCB-77	Tetra		4.3	3.7	4.8		1.5	9.1	7.4	11	L	2.6	1.2	1.1	1.3		1.1
PCB-78	Tetra	PRC															
PCB-79	Tetra		0.87	0.76	0.98	J	1.5	1.3	1.1	1.6	JL	2.6	0.58	0.54	0.63	J	1.1
PCB-80	Tetra					U	0.32				UL	0.38				U	0.1
PCB-81	Tetra		2.1	1.8	2.4		1.5	4.3	3.5	5.3	L	2.6	1.7	1.6	1.8		1.1
PCB-82	Penta		5.3	4.7	6		1.2	8.9	7.3	11	L	2.1	2.9	2.6	3.1		0.93
PCB-83	Penta		2.4	2.1	2.7	C	1.2	4	3.3	4.9	CL	2.1	1.5	1.4	1.7	C	0.93
PCB-84	Penta		27	24	31	C	1.3	46	38	56	CL	2.3	16	15	17	C	1
PCB-85	Penta		6.8	6	7.7	C	1.2	12	9.4	14	CL	2.1	4.1	3.8	4.5	C	0.93
PCB-86	Penta		0.7	0.62	0.79	J	1.2	1.1	0.88	1.3	JL	2.1				U	0.26
PCB-87	Penta		17	15	19	C	1.2	31	25	37	CL	2.1	10	9.5	11	C	0.93
PCB-88	Penta					UC	0.12				UC L	0.21				UC	0.079
PCB-89	Penta		1.6	1.4	1.9		1.4	2.1	1.8	2.6	JL	2.5	0.51	0.47	0.55	J	1.1
PCB-90	Penta		54	48	60	C	1.2	90	74	110	CL	2.1	31	29	33	C	0.93
PCB-91	Penta					C088					C088					C088	
PCB-92	Penta					C084					C084					C084	
PCB-93	Penta					U	0.13				UL	0.22				U	0.081
PCB-94	Penta		0.53	0.47	0.61	J	1.4	1.1	0.9	1.4	JL	2.5	0.32	0.3	0.35	J	1.1
PCB-95	Penta		74	65	84		1.4	140	110	170	-L	2.5	39	36	42		1.1
PCB-96	Penta		0.89	0.79	1	J	1.3	1.8	1.5	2.2	JL	2.3	0.28	0.26	0.31	J	1
PCB-97	Penta		15	13	17		1.2	27	22	33	L	2.1	8.3	7.7	9		0.93
PCB-98	Penta					UC	0.14				UC L	0.24				UC	0.087
PCB-99	Penta		22	19	25		1.2	38	32	47							

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CB-SSWI				LDW-Y2-IN-ENR+AC-CC-SSWI				LDW-Y2-IN-ENR-CA-SSWI				[PCB Cfree] DL		
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result		Upper CL [PCB Cfree] Result	Qualifier
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)		(pg/L)	
PCB-1	Mono					U	6				U	5.1				U	5.9
PCB-2	Mono					U	1.7				U	1.4				U	1.8
PCB-3	Mono					U	1.7				U	1.5				U	2
PCB-4	Di		25	24	28		13	23	23	25		13	31	30	36		13
PCB-5	Di					U	2.3				U	2.5				U	2.9
PCB-6	Di		8.4	7.5	10		7	7.8	7.3	8.8		6.6	14	12	17		6.8
PCB-7	Di					U	2.2				U	2.5				U	2.9
PCB-8	Di		22	20	27		7	24	23	27		6.6	24	22	31		6.8
PCB-9	Di					U	2.2				U	2.5				U	2.9
PCB-10	Di					U	4.3				U	5.1				U	5.7
PCB-11	Di		1	0.84	1.3		4.3	2.2	1.9	2.5		3.8	0.15	0.12	0.19		3.9
PCB-12	Di					U	1.5				U	1.5				U	1.8
PCB-13	Di					U	1.5				U	1.6				U	1.8
PCB-14	Di	PRC															
PCB-15	Di		7.1	5.9	9		4.3	6.6	5.9	7.7		3.8	7.4	6.2	9.7		3.9
PCB-16	Tri		16	14	21		4.3	13	12	15		3.8	13	11	18		4
PCB-17	Tri		21	17	26		4.3	21	19	25		3.8	21	18	28		4
PCB-18	Tri		50	41	63		4.3	50	45	58		3.8	51	43	67		4
PCB-19	Tri		8.3	7.3	10		6	9	8.3	10		5.6	9.2	8.1	12		5.8
PCB-20	Tri		14	11	18	C	3.4	17	15	20	C	2.8	17	13	22	C	2.9
PCB-21	Tri					C020					C020					C020	
PCB-22	Tri		8.4	6.9	11		3.4	9.5	8.3	11		2.8	9.5	7.7	12		2.9
PCB-23	Tri					U	1.4				U	1				U	0.53
PCB-24	Tri		3.2	2.6	4	J	4.3	3.3	2.9	3.8	J	3.8	4.2	3.5	5.4		4
PCB-25	Tri		6.7	5.5	8.5		3.4	6.1	5.3	7.1		2.8	8.2	6.6	11		2.9
PCB-26	Tri		14	11	18		3.4	11	9.8	13		2.8	16	13	21		2.9
PCB-27	Tri		3.3	2.7	4.2	J	4.3	2.8	2.5	3.2	J	3.8	3	2.5	3.9	J	4
PCB-28	Tri		28	23	35		3.4	28	24	32		2.8	34	27	44		2.9
PCB-29	Tri					U	1.4				U	1				U	0.52
PCB-30	Tri					U	0.51				U	0.4				U	0.46
PCB-31	Tri		30	24	38		3.4	30	26	35		2.8	32	26	42		2.9
PCB-32	Tri		8.6	7.2	11		4.3	13	11	15		3.8	11	9.3	14		4
PCB-33	Tri					C020					C020					C020	
PCB-34	Tri					U	1.4				U	1				U	0.53
PCB-35	Tri					U	1.3				U	0.9				U	0.46
PCB-36	Tri	PRC															
PCB-37	Tri		4.2	3.4	5.2		2.7	3.9	3.3	4.5		2.1	4.5	3.6	5.8		2.2
PCB-38	Tri					U	1.2				U	0.8				U	0.41
PCB-39	Tri					U	1.2				U	0.82				U	0.42
PCB-40	Tetra		5.9	4.8	7.2		2.5	5.1	4.5	6		1.8	5.3	4.2	6.8		2
PCB-41	Tetra		29	24	35	C	2.4	25	21	29	C	1.8	27	22	35	C	1.9
PCB-42	Tetra		13	11	16	C	2.5	12	11	14	C	1.8	13	10	17	C	2
PCB-43	Tetra		49	40	60	C	2.5	41	36	48	C	1.8	48	38	61	C	2
PCB-44	Tetra		43	35	53		2.5	38	33	44		1.8	39	31	50		2
PCB-45	Tetra		7.5	6.2	9.5		2.9	6.9	6	8.1		2.3	7.7	6.1	10		2.4
PCB-46	Tetra		2.5	2	3.1	J	2.9	2.9	2.5	3.4		2.3	2.8	2.3	3.7		2.4
PCB-47	Tetra		14	12	18		2.5	13	11	15		1.8	14	11	18		2
PCB-48	Tetra		7.6	6.2	9.4	C	2.5	6.9	6	8.1	C	1.8	7.9	6.3	10	C	2
PCB-49	Tetra					C043					C043					C043	
PCB-50	Tetra		0.48	0.39	0.6	J	2.9	0.35	0.3	0.41	J	2.3	0.7	0.56	0.91	J	2.4
PCB-51	Tetra		2.3	1.9	2.9	J	2.9	2.5	2.2	2.9		2.3	2.5	2	3.2		2.4
PCB-52	Tetra		84	69	100	C	2.5	70	61	82	C	1.8	79	63	100	C	2
PCB-53	Tetra		9.3	7.6	12		2.9	8.3	7.2	9.7		2.3	9.2	7.4	12		2.4
PCB-54	Tetra					U	0.3				U	0.25				U	0.25
PCB-55	Tetra		2.4	2	2.9		2.2	1.4	1.3	1.7		1.5	2.3	1.8	2.9		1.7
PCB-56	Tetra		11	8.8	13	C	2.2	10	8.7	12	C	1.5	11	9	14	C	1.7
PCB-57	Tetra		0.49	0.41	0.59	J	2.2				U	0.21	0.57	0.46	0.73	J	1.7
PCB-58	Tetra		0.35	0.29	0.43	J	2.2				U	0.2				U	0.2
PCB-59	Tetra					C042					C042					C042	
PCB-60	Tetra					C056					C056					C056	
PCB-61	Tetra		33	27	39	C	2.2	26	22	30	C	1.5	28	22	35	C	1.7
PCB-62	Tetra					U	0.31				U	0.25				U	0.25
PCB-63	Tetra		1.3	1.1	1.5	J	2.2	1.1	0.95	1.3	J	1.5	1.3	1.1	1.7	J	1.7
PCB-64	Tetra					C041					C041					C041	
PCB-65	Tetra					U	0.33				U	0.27				U	0.26
PCB-66	Tetra		27	22	32	C	2.2	21	18	25	C	1.5	25	20	32	C	1.7
PCB-67	Tetra		1.1	0.89	1.3	J	2.2	1	0.91	1.2	J	1.5	1.3	1	1.6	J	1.7
PCB-68	Tetra		0.69	0.58	0.84	J	2.2	0.58	0.51	0.67	J	1.5	0.64	0.51	0.81	J	1.7
PCB-69	Tetra					C052					C052					C052	
PCB-70	Tetra					C061					C061					C061	
PCB-71	Tetra					C041					C041					C041	
PCB-72	Tetra					C041					C041					C041	
PCB-73	Tetra		1.2	1	1.5		2.5	1.3	1.1	1.5		1.8	1.4	1.2	1.9		2
PCB-74	Tetra		12	10	15		2.2	10	8.8	12		1.5	12	9.5	15		1.7
PCB-75	Tetra					C048					C048					C048	
PCB-76	Tetra					C066					C066					C066	
PCB-77	Tetra		2	1.6	2.3		1.9	1.4	1.2	1.6		1.3	1.8	1.5	2.2		1.4
PCB-78	Tetra	PRC															
PCB-79	Tetra		0.69	0.58	0.83	J	1.9	0.62	0.54	0.71	J	1.3	0.61	0.49	0.76	J	1.4
PCB-80	Tetra					U	0.21				U	0.15				U	0.15
PCB-81	Tetra		1.4	1.2	1.6	J	1.9	1.6	1.4	1.8		1.3	1.8	1.5	2.3		1.4
PCB-82	Penta		4.6	3.8	5.5	L	1.7	3.2	2.8	3.7		1.1	4.6	3.7	5.7		1.2
PCB-83	Penta		2.4	2	2.8	CL	1.7	2	1.8	2.3	C	1.1	2.5	2	3.1	C	1.2
PCB-84	Penta		23	19	28	CL	1.8	19	16	21	C	1.1	23	19	28	C	1.3
PCB-85	Penta		6.6	5.6	7.9	CL	1.7	5	4.4	5.7	C	1.1	6.9	5.6	8.6	C	1.2
PCB-86	Penta					UL	0.42				U	0.29	0.58	0.47	0.71	J	1.2
PCB-87	Penta		16	14	19	CL	1.7	12	11	14	C	1.1	17	14	21	C	1.2
PCB-88	Penta					UC	0.14				UC	0.087				UC	0.11
PCB-89	Penta		0.6	0.51	0.72	J	1.9	0.61	0.53	0.7	J	1.2	0.67	0.55	0.84	J	1.3
PCB-90	Penta		46	38	55	CL	1.7	36	32	41	C	1.1	45	37	56	C	1.2
PCB-91	Penta					C088					C088					C088	
PCB-92	Penta					C084					C084					C084	
PCB-93	Penta					U	0.15				U	0.089				U	0.12
PCB-94	Penta		0.42	0.35	0.51	J	1.9	0.35	0.3	0.4	J	1.2	0.46	0.37	0.58	J	1.3
PCB-95	Penta		62	52	75		1.9	46	40	53		1.2	60	48	74		1.3
PCB-96	Penta		0.57	0.48	0.68	JL	1.8	0.43	0.38	0.5	J	1.1	0.52	0.42	0.65	J	1.3
PCB-97	Penta		14	12	17	L	1.7	12	10	13		1.1	13	11	16		1.2
PCB-98	Penta					UC	0.16				UC	0.096				UC	0.12
PCB-99	Penta		21	17	25	L	1.7	16	14	18		1.1	19	15	23		1.2
PCB-100	Penta		0.74	0.63	0.89	J	1.9	0.57	0.49	0.65	J	1.2	0.78	0.63	0.97	J	1.3
PCB-101	Penta					C090					C090						

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-SSWI				LDW-Y2-IN-ENR-CE-SSWI					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)	
PCB-1	Mono					U	3.6	10	10	11	J	39
PCB-2	Mono					U	0.9				U	0.99
PCB-3	Mono					U	0.94				U	1.1
PCB-4	Di		28	28	30		12	36	35	40		16
PCB-5	Di					U	2.5				U	2.8
PCB-6	Di		10	9.8	12		6.4	11	10	13		8.4
PCB-7	Di					U	2.4				U	2.7
PCB-8	Di		23	21	27		6.4	26	24	30		8.4
PCB-9	Di					U	2.4				U	2.7
PCB-10	Di					U	5.1				U	5.7
PCB-11	Di		0.019	0.016	0.024		3.9				UB	4.6
PCB-12	Di					U	1.7				U	1.8
PCB-13	Di					U	1.8				U	1.9
PCB-14	Di	PRC										
PCB-15	Di		6.6	5.6	8.4		3.9	7.3	6.6	8.4		4.6
PCB-16	Tri		12	10	15		4	13	12	15		4.7
PCB-17	Tri		23	19	29		4	20	18	23		4.7
PCB-18	Tri		58	50	74		4	47	42	54		4.7
PCB-19	Tri		11	9.7	13		5.5	8.4	7.6	9.5		7.1
PCB-20	Tri		16	13	21	C	3.1	14	12	16	C	3.3
PCB-21	Tri					C020					C020	
PCB-22	Tri		11	8.9	14		3.1	9.1	8.1	10		3.3
PCB-23	Tri					U	0.52				U	1.3
PCB-24	Tri		4.3	3.7	5.5		4	3.3	3	3.8	J	4.7
PCB-25	Tri		8	6.5	10		3.1	7.1	6.3	8.1		3.3
PCB-26	Tri		16	13	21		3.1	14	13	16		3.3
PCB-27	Tri		3.8	3.2	4.8	J	4	2.8	2.5	3.2	J	4.7
PCB-28	Tri		34	28	43		3.1	32	28	36		3.3
PCB-29	Tri					U	0.54				U	1.3
PCB-30	Tri					U	0.47				U	0.44
PCB-31	Tri		38	31	49		3.1	28	25	32		3.3
PCB-32	Tri		16	13	20		4	11	9.6	12		4.7
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	0.53				U	1.3
PCB-35	Tri					U	0.52				U	1.1
PCB-36	Tri	PRC										
PCB-37	Tri		4.9	4	6.2		2.6	3.8	3.3	4.3		2.4
PCB-38	Tri					U	0.48				U	0.99
PCB-39	Tri					U	0.48				U	0.99
PCB-40	Tetra		6.6	5.4	8.3		2.5	4.3	3.8	4.8		2
PCB-41	Tetra		33	27	42	C	2.4	25	22	28	C	1.9
PCB-42	Tetra		17	13	21	C	2.5	11	10	13	C	2
PCB-43	Tetra		58	47	73	C	2.5	42	37	48	C	2
PCB-44	Tetra		49	39	61		2.5	40	36	46		2
PCB-45	Tetra		8.4	6.8	11		2.8	5.9	5.2	6.7		2.6
PCB-46	Tetra		3.5	2.8	4.4		2.8	2.4	2.1	2.7	J	2.6
PCB-47	Tetra		19	15	23		2.5	12	11	14		2
PCB-48	Tetra		9.7	7.8	12	C	2.5	6.6	5.8	7.4	C	2
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		0.4	0.32	0.51	J	2.8	0.47	0.42	0.54	J	2.6
PCB-51	Tetra		2.6	2.1	3.3		2.8	1.9	1.7	2.1	J	2.6
PCB-52	Tetra		100	82	130	C	2.5	85	76	97	C	2
PCB-53	Tetra		11	8.5	13		2.8	8.4	7.4	9.6		2.6
PCB-54	Tetra					U	0.32				U	0.34
PCB-55	Tetra		0.74	0.61	0.92		2.3	1.5	1.4	1.7		1.6
PCB-56	Tetra		14	12	18	C	2.3	9.5	8.5	11	C	1.6
PCB-57	Tetra					U	0.33	0.46	0.41	0.52	J	1.6
PCB-58	Tetra					U	0.32				U	0.26
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		35	28	43	C	2.3	25	22	28	C	1.6
PCB-62	Tetra					U	0.32				U	0.3
PCB-63	Tetra		1.7	1.4	2.2	J	2.3	0.99	0.88	1.1	J	1.6
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.35				U	0.33
PCB-66	Tetra		30	25	38	C	2.3	21	19	24	C	1.6
PCB-67	Tetra		1.7	1.4	2.1	J	2.3	1	0.93	1.2	J	1.6
PCB-68	Tetra		0.88	0.72	1.1	J	2.3	0.53	0.47	0.6	J	1.6
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		1.4	1.1	1.8		2.5	1.6	1.4	1.8		2
PCB-74	Tetra		15	12	18		2.3	10	9.2	12		1.6
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		2.3	1.9	2.8		2.1	1.6	1.4	1.8		1.3
PCB-78	Tetra	PRC										
PCB-79	Tetra		1	0.84	1.2	J	2.1	0.8	0.72	0.9	J	1.3
PCB-80	Tetra					U	0.25				U	0.17
PCB-81	Tetra		2.8	2.3	3.4		2.1	1.7	1.5	1.9		1.3
PCB-82	Penta		6.2	5.2	7.5	L	2	3.9	3.5	4.3		1
PCB-83	Penta		3.8	3.1	4.6	CL	2	2	1.8	2.3	C	1
PCB-84	Penta		38	31	45	CL	2	23	21	26	C	1.1
PCB-85	Penta		8.9	7.4	11	CL	2	5.3	4.8	5.9	C	1
PCB-86	Penta					UL	0.67				U	0.31
PCB-87	Penta		22	18	27	CL	2	14	13	16	C	1
PCB-88	Penta					UCL	0.21				UC	0.085
PCB-89	Penta		0.99	0.82	1.2	JL	2.1	0.81	0.73	0.91	J	1.2
PCB-90	Penta		64	53	77	CL	2	41	37	46	C	1
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					UL	0.23				U	0.095
PCB-94	Penta					UL	0.23				U	0.096
PCB-95	Penta		81	67	99	L	2.1	56	51	63		1.2
PCB-96	Penta		0.83	0.69	1	JL	2	0.39	0.35	0.44	J	1.1
PCB-97	Penta		18	15	22	L	2	11	10	12		1
PCB-98	Penta					UCL	0.22				UC	0.089
PCB-99	Penta		27	23	33	L	2	16	15	18		1
PCB-100	Penta		1.1	0.95	1.4	JL	2.1	0.53	0.47	0.59	J	1.2
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		1.5	1.2	1.8	JL	2.1	0.72	0.65	0.81	J	1.2
PCB-104	Penta	PRC										
PCB-105	Penta		11	9.4	14	L	1.9	6.7	6	7.5		0.85
PCB-106	Penta		36	30	43	CL	1.9	20	18	23	C	0.85
PCB-107	Penta		3.4	2.8	4.1	CL	1.9	1.8	1.7	2	C	0.85
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CA/AC-CD-S010				LDW-Y2-SC-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					UL	1				UL	0.74
PCB-110	Penta		91	61	130	L	4.2	66	57	77	L	3.9
PCB-111	Penta		1.6	1.1	2.5	C,J,L	4.1	1.4	1.2	1.6	C,J,L	3.8
PCB-112	Penta					C083					C083	
PCB-113	Penta					UL	0.97				UL	0.83
PCB-114	Penta		1.6	1	2.4	J,L	3.9	1.2	1	1.4	J,L	3.8
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		3.1	2.1	4.7	J,L	4.2	2.6	2.2	3	J,L	3.9
PCB-120	Penta					UL	0.91				UL	0.67
PCB-121	Penta	PRC										
PCB-122	Penta		0.81	0.52	1.3	J,L	3.9	0.79	0.68	0.92	J,L	3.8
PCB-123	Penta		1	0.66	1.6	J,L	3.9	1.1	0.95	1.3	J,L	3.8
PCB-124	Penta		2.6	1.7	4	J,L	3.9	2.4	2.1	2.8	J,L	3.8
PCB-125	Penta					C087					C087	
PCB-126	Penta					UL	0.46				UL	0.56
PCB-127	Penta					UL	0.4				UL	0.47
PCB-128	Hexa		5.8	3	11	C,L	3.1	6.8	5.7	8.2	C,L	3.5
PCB-129	Hexa		2.2	1.2	4.1	J,L	3.2	2.6	2.1	3.1	J,L	3.6
PCB-130	Hexa		2.9	1.6	5.4	J,L	3.2	4	3.4	4.8	L	3.6
PCB-131	Hexa		1.6	0.92	2.9	C,J,L	3.3	2.2	1.8	2.6	C,J,L	3.6
PCB-132	Hexa		15	8.3	27	C,L	3.3	18	15	21	C,L	3.6
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		3.9	2.2	6.8	C,L	3.4	4.9	4.1	5.8	C,L	3.6
PCB-135	Hexa		9	5.2	16	L	3.4	10	8.8	12	L	3.6
PCB-136	Hexa		13	7.3	25	L	3.2	13	10	15	L	3.6
PCB-137	Hexa		2.1	1.1	3.9	J,L	3.2	2.2	1.8	2.6	J,L	3.6
PCB-138	Hexa		46	25	85	C,L	3.2	51	42	61	C,L	3.6
PCB-139	Hexa		56	33	99	C,L	3.4	62	52	73	C,L	3.6
PCB-140	Hexa					UL	0.44	0.84	0.71	0.99	J,L	3.6
PCB-141	Hexa		8.8	4.8	16	L	3.2	9.4	7.9	11	L	3.6
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		4	2.3	7	L	3.4	4.8	4	5.7	L	3.6
PCB-145	Hexa					UL	0.3				UL	0.2
PCB-146	Hexa		11	6	20	C,L	3.2	12	9.8	14	C,L	3.6
PCB-147	Hexa		1.5	0.87	2.6	J,L	3.4	1.6	1.4	1.9	J,L	3.6
PCB-148	Hexa					UL	0.47				UL	0.29
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					UL	0.28				UL	0.21
PCB-151	Hexa		20	12	35	L	3.4	19	16	22	L	3.6
PCB-152	Hexa					UL	0.28				UL	0.21
PCB-153	Hexa		53	29	99	L	3.2	59	49	70	L	3.6
PCB-154	Hexa		1.7	1	3	J,L	3.4	1.6	1.4	1.9	J,L	3.6
PCB-155	Hexa	PRC										
PCB-156	Hexa		3	1.5	5.9	J,L	3	3.3	2.7	4	J,L	3.5
PCB-157	Hexa		0.98	0.5	2	J,L	3	1	0.82	1.2	J,L	3.5
PCB-158	Hexa		4.8	2.6	9	C,L	3.2	5.1	4.3	6.1	C,L	3.6
PCB-159	Hexa		1.2	0.61	2.4	J,L	3	1.7	1.4	2.1	J,L	3.5
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					UL	0.35				UL	0.46
PCB-167	Hexa		1.6	0.79	3.1	J,L	3	1.8	1.5	2.2	J,L	3.5
PCB-168	Hexa					UL	0.34				UL	0.42
PCB-169	Hexa					UL	0.29				UL	0.39
PCB-170	Hepta		6.9	2.8	17	L	2.4	6.9	5.4	8.8	L	3.4
PCB-171	Hepta		2.8	1.2	6.5	L	2.6	2.9	2.3	3.7	J,L	3.4
PCB-172	Hepta		3.9	1.6	9.8	L	2.4	3.2	2.5	4.1	L	3.4
PCB-173	Hepta					UL	0.42				UL	0.5
PCB-174	Hepta		9.2	4	22	L	2.6	10	8.2	13	L	3.4
PCB-175	Hepta					UL	0.37				UL	0.44
PCB-176	Hepta		1.6	0.64	4.1	J,L	2.4	2.2	1.7	2.9	J,L	3.4
PCB-177	Hepta		6	2.6	14	L	2.6	6.4	5.1	8	L	3.4
PCB-178	Hepta		2.7	1.1	6.3	L	2.6	3.2	2.6	4	J,L	3.4
PCB-179	Hepta		5.3	2.1	14	L	2.4	6.6	5.2	8.5	L	3.4
PCB-180	Hepta		19	7.6	48	L	2.4	18	14	24	L	3.4
PCB-181	Hepta		0.89	0.38	2.1	J,L	2.6	0.87	0.69	1.1	J,L	3.4
PCB-182	Hepta		13	5.5	31	C,L	2.6	15	12	19	C,L	3.4
PCB-183	Hepta		7.2	3.1	17	L	2.6	7.3	5.8	9.2	L	3.4
PCB-184	Hepta	PRC										
PCB-185	Hepta		1.5	0.64	3.5	J,L	2.6	1.3	1	1.6	J,L	3.4
PCB-186	Hepta					UL	0.24				UL	0.31
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.79	0.31	2	J,L	2.4	1.7	1.3	2.1	J,L	3.4
PCB-189	Hepta					UL	0.21				UL	0.28
PCB-190	Hepta		1.6	0.63	4	J,L	2.4	2.1	1.6	2.7	J,L	3.4
PCB-191	Hepta					UL	0.27				UL	0.34
PCB-192	Hepta	PRC										
PCB-193	Hepta		1.4	0.57	3.6	J,L	2.4				UL	0.34
PCB-194	Octa		1.6	0.47	5.8	J,L	1.9	2	1.4	2.7	J,L	3.2
PCB-195	Octa		0.91	0.28	3	J,L	2	1	0.75	1.4	J,L	3.3
PCB-196	Octa		2.6	0.79	8.5	C,L	2	3.8	2.7	5.1	C,L	3.3
PCB-197	Octa		0.7	0.2	2.5	L	1.8	0.41	0.29	0.58	L	3.2
PCB-198	Octa					UL	0.21				UL	0.51
PCB-199	Octa		2.3	0.65	8.5	L	1.8	3.2	2.3	4.5	J,L	3.2
PCB-200	Octa		0.47	0.13	1.7	J,L	1.8				UL	0.33
PCB-201	Octa					UL	0.16				UL	0.34
PCB-202	Octa		0.71	0.2	2.6	J,L	1.8	0.94	0.67	1.3	J,L	3.2
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					UL	0.17				UL	0.31
PCB-206	Nona		0.4	0.088	1.8	J,L	1.5				UL	0.56
PCB-207	Nona		0.14	0.028	0.72	L	1.4	0.64	0.42	0.98	L	3.1
PCB-208	Nona		0.21	0.042	1.1	J,L	1.4				UL	0.39
PCB-209	Deca		0.18	0.025	1.3	L	1.1	0.7	0.42	1.2	L	3
Total Detected PCB Congeners			4700	3100	8000			5100	4400	6000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CC-S010				LDW-Y2-SC-ENR-CC-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.31				U	0.4
PCB-110	Penta		31	27	36		1.7	68	49	95		1.6
PCB-111	Penta		0.49	0.42	0.56	C,J	1.5	1.3	0.95	1.8	C,J	1.5
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.35				U	0.38
PCB-114	Penta		0.51	0.44	0.59	J	1.4	0.83	0.61	1.2	J	1.4
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		1.1	0.94	1.2	J	1.7	2.1	1.6	3		1.6
PCB-120	Penta					U	0.24				U	0.32
PCB-121	Penta	PRC										
PCB-122	Penta					U	0.2	0.5	0.36	0.69	J	1.4
PCB-123	Penta		0.39	0.34	0.45	J	1.4	0.69	0.5	0.96	J	1.4
PCB-124	Penta		0.82	0.71	0.94	J	1.4	1.4	1	2		1.4
PCB-125	Penta					C087					C087	
PCB-126	Penta					U	0.2				U L	0.21
PCB-127	Penta					U	0.18				U L	0.2
PCB-128	Hexa		1.4	1.2	1.7	C L	0.77	2.3	1.6	3.3	C L	0.84
PCB-129	Hexa		0.56	0.48	0.65	J	0.84	0.88	0.63	1.3	J L	0.9
PCB-130	Hexa		0.98	0.85	1.1		0.84	1.3	0.92	1.8	L	0.9
PCB-131	Hexa		0.52	0.45	0.61	C,J	0.9	0.86	0.62	1.2	C,J L	0.96
PCB-132	Hexa		4.8	4.2	5.6	C	0.9	6.9	4.9	9.7	C L	0.96
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		1.3	1.1	1.5	C	0.98	2.1	1.5	2.9	C L	1
PCB-135	Hexa		2.9	2.5	3.3		0.98	4.8	3.4	6.7	L	1
PCB-136	Hexa		2.9	2.5	3.4		0.85	5.8	4.2	8.3	L	0.91
PCB-137	Hexa		0.6	0.51	0.7	J	0.84	0.91	0.65	1.3	L	0.9
PCB-138	Hexa		13	11	15	C	0.84	20	14	28	C L	0.9
PCB-139	Hexa		17	15	20	C	0.98	27	20	38	C L	1
PCB-140	Hexa		0.33	0.29	0.39	J	0.98	0.26	0.19	0.36	J L	1
PCB-141	Hexa		1.9	1.6	2.2		0.84	3.9	2.8	5.6	L	0.9
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		1.3	1.1	1.5		0.98	2	1.4	2.7	L	1
PCB-145	Hexa					U	0.074				U L	0.066
PCB-146	Hexa		3.3	2.8	3.9	C	0.84	4.6	3.3	6.6	C L	0.9
PCB-147	Hexa		0.42	0.36	0.49	J	0.98	0.63	0.46	0.88	J L	1
PCB-148	Hexa					U	0.12				U L	0.11
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U	0.075				U L	0.061
PCB-151	Hexa		5.8	5	6.7		0.98	11	7.7	15	L	1
PCB-152	Hexa					U	0.076				U L	0.062
PCB-153	Hexa		14	12	16		0.84	22	15	31	L	0.9
PCB-154	Hexa		0.4	0.34	0.46	J	0.98	0.91	0.66	1.3	L	1
PCB-155	Hexa	PRC										
PCB-156	Hexa		0.66	0.56	0.78	J L	0.71	1.2	0.84	1.7	L	0.78
PCB-157	Hexa		0.17	0.14	0.2	J L	0.71	0.38	0.26	0.55	J L	0.78
PCB-158	Hexa		1.4	1.2	1.6	C	0.84	1.9	1.3	2.6	C L	0.9
PCB-159	Hexa		0.28	0.24	0.33	J L	0.71	0.44	0.31	0.64	J L	0.78
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U	0.11				U L	0.1
PCB-167	Hexa		0.37	0.31	0.43	J L	0.71	0.6	0.42	0.87	J L	0.78
PCB-168	Hexa					U	0.098				U L	0.099
PCB-169	Hexa					U L	0.077				U L	0.08
PCB-170	Hepta		0.92	0.75	1.1	L	0.43	1.8	1.1	2.8	L	0.51
PCB-171	Hepta		0.47	0.39	0.57	J L	0.49	0.7	0.46	1.1	L	0.57
PCB-172	Hepta		0.3	0.25	0.38	L	0.43	0.11	0.07	0.17	L	0.51
PCB-173	Hepta					U L	0.088				U L	0.078
PCB-174	Hepta		1.5	1.3	1.9	L	0.49	2.8	1.8	4.2	L	0.57
PCB-175	Hepta					U L	0.076				U L	0.07
PCB-176	Hepta		0.28	0.22	0.34	J L	0.42	0.45	0.29	0.72	J L	0.5
PCB-177	Hepta		1	0.83	1.2	L	0.49	1.7	1.1	2.6	L	0.57
PCB-178	Hepta		0.47	0.38	0.57	J L	0.49	0.66	0.43	1	L	0.57
PCB-179	Hepta		0.81	0.65	1	L	0.42	1.4	0.91	2.3	L	0.5
PCB-180	Hepta		2.4	2	3	L	0.43	4.6	2.9	7.3	L	0.51
PCB-181	Hepta					U L	0.073				U L	0.071
PCB-182	Hepta		2.1	1.7	2.6	C L	0.49	3.5	2.3	5.4	C L	0.57
PCB-183	Hepta		1.2	0.95	1.4	L	0.49	1.8	1.2	2.8	L	0.57
PCB-184	Hepta	PRC										
PCB-185	Hepta		0.26	0.21	0.31	J L	0.49	0.43	0.28	0.66	J L	0.57
PCB-186	Hepta					U L	0.046				U L	0.041
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.1	0.083	0.13	J L	0.42	0.16	0.098	0.25	J L	0.5
PCB-189	Hepta					U L	0.038				U L	0.036
PCB-190	Hepta		0.21	0.17	0.26	J L	0.43	0.42	0.27	0.67	J L	0.51
PCB-191	Hepta					U L	0.053				U L	0.049
PCB-192	Hepta	PRC										
PCB-193	Hepta					U L	0.052	0.29	0.18	0.46	J L	0.51
PCB-194	Octa		0.17	0.12	0.22	J L	0.22	0.33	0.18	0.63	L	0.29
PCB-195	Octa		0.09	0.069	0.12	J L	0.25	0.15	0.085	0.28	J L	0.32
PCB-196	Octa		0.29	0.22	0.38	C L	0.25	0.6	0.33	1.1	C L	0.32
PCB-197	Octa		0.024	0.018	0.033	L	0.21	0.1	0.054	0.2	L	0.28
PCB-198	Octa					U L	0.036				U L	0.046
PCB-199	Octa		0.24	0.18	0.32	L	0.21	0.55	0.29	1.1	L	0.28
PCB-200	Octa					U L	0.019				U L	0.028
PCB-201	Octa					U L	0.024				U L	0.034
PCB-202	Octa		0.076	0.056	0.1	J L	0.21	0.15	0.08	0.29	J L	0.28
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.019				U L	0.041
PCB-206	Nona		0.036	0.025	0.052	J L	0.13	0.072	0.033	0.16	J L	0.19
PCB-207	Nona					U B L	0.11				U B L	0.16
PCB-208	Nona					U L	0.0096				U L	0.022
PCB-209	Deca					U B L	0.057	0.0077	0.0027	0.022	L	0.092
Total Detected PCB Congeners			3400	2800	4200			7300	5000	12000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-S010				LDW-Y2-SC-ENR-CE-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.31				U L	0.46
PCB-110	Penta		98	84	110	L	1.9	110	88	130	L	2.1
PCB-111	Penta		2.1	1.8	2.5	C L	1.9	2.5	2	3.1	C L	2
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	0.29				U L	0.44
PCB-114	Penta		1.4	1.2	1.7	J L	1.8	1.5	1.2	1.9	J L	1.9
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		3.3	2.8	3.8	L	1.9	3.4	2.8	4.2	L	2.1
PCB-120	Penta					U L	0.28				U L	0.41
PCB-121	Penta	PRC										
PCB-122	Penta		0.9	0.76	1.1	J L	1.8	0.91	0.74	1.1	J L	1.9
PCB-123	Penta		1.2	1	1.4	J L	1.8	1.4	1.1	1.7	J L	1.9
PCB-124	Penta		2.7	2.3	3.2	L	1.8	2.8	2.3	3.5	L	1.9
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.29				U L	0.32
PCB-127	Penta					U L	0.26				U L	0.27
PCB-128	Hexa		6.6	5.3	8.3	C L	1.6	6.1	4.7	8	C L	1.4
PCB-129	Hexa		2.4	2	3	L	1.6	2.3	1.8	2.9	L	1.5
PCB-130	Hexa		3.6	2.9	4.4	L	1.6	3.6	2.8	4.6	L	1.5
PCB-131	Hexa		2.1	1.7	2.6	C L	1.6	2.2	1.7	2.8	C L	1.6
PCB-132	Hexa		19	16	24	C L	1.6	19	15	24	C L	1.6
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		4.8	4	5.9	C L	1.7	4.7	3.7	5.9	C L	1.6
PCB-135	Hexa		12	9.6	14	L	1.7	13	10	16	L	1.6
PCB-136	Hexa		15	12	18	L	1.6	15	12	20	L	1.5
PCB-137	Hexa		2.2	1.8	2.8	L	1.6	2.1	1.6	2.7	L	1.5
PCB-138	Hexa		53	43	66	C L	1.6	51	40	66	C L	1.5
PCB-139	Hexa		66	54	80	C L	1.7	66	52	84	C L	1.6
PCB-140	Hexa					U L	0.26	0.75	0.59	0.95	J L	1.6
PCB-141	Hexa		10	8.4	13	L	1.6	10	8.1	13	L	1.5
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		4.4	3.6	5.4	L	1.7	4.6	3.6	5.9	L	1.6
PCB-145	Hexa					U L	0.11				U L	0.14
PCB-146	Hexa		11	9.2	14	C L	1.6	13	10	17	C L	1.5
PCB-147	Hexa		1.8	1.5	2.2	L	1.7	1.8	1.4	2.3	L	1.6
PCB-148	Hexa					U L	0.17				U L	0.23
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.099				U L	0.13
PCB-151	Hexa		23	19	28	L	1.7	24	19	31	L	1.6
PCB-152	Hexa					U L	0.1				U L	0.13
PCB-153	Hexa		59	48	73	L	1.6	59	45	75	L	1.5
PCB-154	Hexa		3.4	2.8	4.2	L	1.7	2.3	1.8	3	L	1.6
PCB-155	Hexa	PRC										
PCB-156	Hexa		3.3	2.6	4.3	L	1.6	3.2	2.4	4.2	L	1.4
PCB-157	Hexa		0.81	0.64	1	J L	1.6	0.64	0.49	0.85	J L	1.4
PCB-158	Hexa		4.9	4	6.1	C L	1.6	4.8	3.7	6.2	C L	1.5
PCB-159	Hexa		0.99	0.78	1.3	J L	1.6	0.98	0.75	1.3	J L	1.4
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.21				U L	0.19
PCB-167	Hexa		1.5	1.1	1.8	J L	1.6	1.5	1.2	2	L	1.4
PCB-168	Hexa					U L	0.2				U L	0.18
PCB-169	Hexa					U L	0.22				U L	0.17
PCB-170	Hepta		7.6	5.5	11	L	1.4	6.5	4.5	9.3	L	1.1
PCB-171	Hepta		3	2.2	4	L	1.5	2.8	2	3.9	L	1.2
PCB-172	Hepta		2.7	1.9	3.7	L	1.4	2.2	1.5	3.2	L	1.1
PCB-173	Hepta					U L	0.18				U L	0.2
PCB-174	Hepta		11	8.5	15	L	1.5	9.5	6.8	13	L	1.2
PCB-175	Hepta					U L	0.16				U L	0.18
PCB-176	Hepta		2.1	1.5	2.9	L	1.4	1.7	1.2	2.5	L	1.1
PCB-177	Hepta		6.8	5.1	9.2	L	1.5	6	4.3	8.3	L	1.2
PCB-178	Hepta		2.9	2.2	3.9	L	1.5	2.7	1.9	3.8	L	1.2
PCB-179	Hepta		7	5	9.7	L	1.4	6.2	4.3	8.9	L	1.1
PCB-180	Hepta		20	14	27	L	1.4	17	12	25	L	1.1
PCB-181	Hepta					U L	0.16	0.49	0.35	0.69	J L	1.2
PCB-182	Hepta		16	12	21	C L	1.5	13	9.3	18	C L	1.2
PCB-183	Hepta		7.4	5.5	9.9	L	1.5	6.7	4.8	9.3	L	1.2
PCB-184	Hepta	PRC										
PCB-185	Hepta		1.6	1.2	2.2	L	1.5	1.3	0.92	1.8	L	1.2
PCB-186	Hepta					U L	0.1	0.37	0.26	0.53	J L	1.1
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.75	0.54	1	J L	1.4	0.52	0.36	0.75	J L	1.1
PCB-189	Hepta					U L	0.096				U L	0.11
PCB-190	Hepta		1.7	1.3	2.4	L	1.4	1.4	0.99	2	L	1.1
PCB-191	Hepta					U L	0.12				U L	0.13
PCB-192	Hepta	PRC										
PCB-193	Hepta		1.3	0.97	1.8	J L	1.4	1.4	1	2.1	L	1.1
PCB-194	Octa		2	1.3	3.1	L	1.3	1.5	0.93	2.5	L	0.85
PCB-195	Octa		1	0.68	1.6	J L	1.3	0.81	0.51	1.3	J L	0.9
PCB-196	Octa		3.2	2.1	4.8	C L	1.3	2.7	1.7	4.3	C L	0.9
PCB-197	Octa		0.62	0.39	0.97	L	1.3	0.2	0.12	0.33	L	0.83
PCB-198	Octa					U L	0.17				U L	0.078
PCB-199	Octa		3.3	2.1	5.3	L	1.3	2.3	1.4	3.8	L	0.83
PCB-200	Octa					U L	0.12	0.43	0.26	0.71	J L	0.83
PCB-201	Octa					U L	0.13				U L	0.057
PCB-202	Octa		0.97	0.62	1.5	J L	1.3	0.72	0.44	1.2	J L	0.83
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa		0.21	0.14	0.33	J L	1.3				U L	0.12
PCB-206	Nona		0.7	0.4	1.2	J L	1.2	0.39	0.21	0.7	J L	0.69
PCB-207	Nona		0.081	0.045	0.15	L	1.1	0.12	0.063	0.23	L	0.63
PCB-208	Nona		0.3	0.17	0.53	J L	1.1	0.19	0.099	0.36	J L	0.63
PCB-209	Deca		0.14	0.07	0.29	L	1	0.068	0.031	0.15	L	0.48
Total Detected PCB Congeners			5100	4400	6100			7800	6200	10000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CA-S010				LDW-Y2-SU-ENR+AC-CB-S010						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)
PCB-109	Penta					U L	0.37					U L	0.35
PCB-110	Penta		340	280	430	L	2.4	200	150	270		L	1.5
PCB-111	Penta		8.7	7.1	11	C L	2.5	3	2.2	4		C L	1.4
PCB-112	Penta					C083						C083	
PCB-113	Penta					U L	0.4					U L	0.38
PCB-114	Penta		6.4	5.2	7.9	L	2.5	2.4	1.8	3.3		L	1.3
PCB-115	Penta					C111						C111	
PCB-116	Penta					C085						C085	
PCB-117	Penta					C087						C087	
PCB-118	Penta					C106						C106	
PCB-119	Penta		9.8	8	12	L	2.4	6.4	4.8	8.7		L	1.5
PCB-120	Penta		1.7	1.4	2.1	J L	2.5	0.73	0.55	0.98		J L	1.3
PCB-121	Penta	PRC											
PCB-122	Penta		3.8	3.1	4.6	L	2.5	1.3	0.99	1.8		J L	1.3
PCB-123	Penta		5.2	4.3	6.4	L	2.5	1.8	1.4	2.5		L	1.3
PCB-124	Penta		9.8	8	12	L	2.5	4.6	3.4	6.1		L	1.3
PCB-125	Penta					C087						C087	
PCB-126	Penta		1.2	0.98	1.5	J L	2.6	0.38	0.29	0.52		J L	1.2
PCB-127	Penta					U L	0.61					U L	0.17
PCB-128	Hexa		30	24	37	C L	2.8	9.9	7.2	14		C L	0.92
PCB-129	Hexa		9.9	8	12	L	2.8	3.6	2.6	4.9		L	0.97
PCB-130	Hexa		14	11	18	L	2.8	5.2	3.8	7.2		L	0.97
PCB-131	Hexa		6.4	5.2	7.9	C L	2.7	2.6	1.9	3.5		C L	1
PCB-132	Hexa		86	69	110	C L	2.7	28	21	38		C L	1
PCB-133	Hexa					C131						C131	
PCB-134	Hexa		18	14	22	C L	2.7	6.6	4.9	8.9		C L	1.1
PCB-135	Hexa		43	35	54	L	2.7	18	13	25		L	1.1
PCB-136	Hexa		56	45	70	L	2.8	19	14	26		L	0.98
PCB-137	Hexa		11	9.1	14	L	2.8	3.1	2.2	4.2		L	0.97
PCB-138	Hexa		210	170	270	C L	2.8	72	53	99		C L	0.97
PCB-139	Hexa		240	190	290	C L	2.7	89	66	120		C L	1.1
PCB-140	Hexa		2.8	2.3	3.5	L	2.7	1.2	0.92	1.7		L	1.1
PCB-141	Hexa		43	34	53	L	2.8	14	10	19		L	0.97
PCB-142	Hexa	PRC											
PCB-143	Hexa					C134						C134	
PCB-144	Hexa		16	13	19	L	2.7	5	3.7	6.7		L	1.1
PCB-145	Hexa					U L	0.3					U L	0.079
PCB-146	Hexa		40	32	50	C L	2.8	16	11	21		C L	0.97
PCB-147	Hexa		5.7	4.6	7	L	2.7	2.2	1.6	2.9		L	1.1
PCB-148	Hexa					U L	0.41					U L	0.12
PCB-149	Hexa					C139						C139	
PCB-150	Hexa		1.3	1	1.6	J L	2.8	0.46	0.34	0.64		J L	0.98
PCB-151	Hexa		77	62	95	L	2.7	30	22	40		L	1.1
PCB-152	Hexa					U L	0.31					U L	0.081
PCB-153	Hexa		200	160	250	L	2.8	71	52	98		L	0.97
PCB-154	Hexa		4.6	3.7	5.6	L	2.7	2.6	1.9	3.5		L	1.1
PCB-155	Hexa	PRC											
PCB-156	Hexa		16	13	20	L	2.9	4.6	3.3	6.4		L	0.87
PCB-157	Hexa		4	3.2	5	L	2.9	0.79	0.57	1.1		J L	0.87
PCB-158	Hexa		23	19	29	C L	2.8	7.4	5.4	10		C L	0.97
PCB-159	Hexa		3	2.4	3.8	L	2.9	0.98	0.71	1.4		L	0.87
PCB-160	Hexa					C158						C158	
PCB-161	Hexa					C132						C132	
PCB-162	Hexa					C128						C128	
PCB-163	Hexa					C138						C138	
PCB-164	Hexa					C138						C138	
PCB-165	Hexa					C146						C146	
PCB-166	Hexa					U L	0.49					U L	0.18
PCB-167	Hexa		7	5.5	8.8	L	2.9	1.7	1.2	2.3		L	0.87
PCB-168	Hexa					U L	0.47					U L	0.18
PCB-169	Hexa					U L	0.53					U L	0.14
PCB-170	Hepta		34	26	45	L	3.2	6.8	4.4	11		L	0.63
PCB-171	Hepta		13	9.8	17	L	3.1	2.7	1.8	4.1		L	0.69
PCB-172	Hepta		8.7	6.5	12	L	3.2	1.9	1.2	3		L	0.63
PCB-173	Hepta					U L	0.83					U L	0.12
PCB-174	Hepta		49	37	64	L	3.1	12	7.8	17		L	0.69
PCB-175	Hepta		1.3	1	1.8	J L	3.1	0.5	0.34	0.75		J L	0.69
PCB-176	Hepta		8.9	6.7	12	L	3.3	1.7	1.1	2.7		L	0.62
PCB-177	Hepta		28	22	37	L	3.1	7.2	4.8	11		L	0.69
PCB-178	Hepta		12	9	15	L	3.1	2.9	2	4.4		L	0.69
PCB-179	Hepta		30	23	40	L	3.3	5.9	3.8	9.1		L	0.62
PCB-180	Hepta		92	69	120	L	3.2	19	12	29		L	0.63
PCB-181	Hepta					U L	0.73					U L	0.11
PCB-182	Hepta		62	47	81	C L	3.1	15	10	23		C L	0.69
PCB-183	Hepta		28	21	36	L	3.1	6.8	4.6	10		L	0.69
PCB-184	Hepta	PRC											
PCB-185	Hepta		6.3	4.8	8.3	L	3.1	1.3	0.87	2		L	0.69
PCB-186	Hepta					U L	0.53					U L	0.067
PCB-187	Hepta					C182						C182	
PCB-188	Hepta		2.2	1.7	3	J L	3.3	0.37	0.24	0.58		J L	0.62
PCB-189	Hepta		1.6	1.2	2.2	J L	3.3	0.26	0.17	0.42		J L	0.57
PCB-190	Hepta		7.8	5.9	10	L	3.2	1.5	0.96	2.3		L	0.63
PCB-191	Hepta		1.3	0.97	1.7	J L	3.2	0.22	0.14	0.33		J L	0.63
PCB-192	Hepta	PRC											
PCB-193	Hepta		5	3.7	6.6	L	3.2	1.1	0.7	1.6		L	0.63
PCB-194	Octa		13	8.8	19	L	3.8	1.6	0.88	2.9		L	0.41
PCB-195	Octa		5.9	4.1	8.5	L	3.7	0.86	0.49	1.5		L	0.45
PCB-196	Octa		17	12	25	C L	3.7	2.5	1.4	4.5		C L	0.45
PCB-197	Octa		1.8	1.2	2.7	L	3.9	0.081	0.044	0.15		L	0.4
PCB-198	Octa		1.1	0.75	1.6	J L	3.7	0.16	0.089	0.27		J L	0.45
PCB-199	Octa		18	12	27	L	3.9	2.4	1.3	4.4		L	0.4
PCB-200	Octa		3.2	2.1	4.7	J L	3.9	0.3	0.16	0.55		J L	0.4
PCB-201	Octa					U L	0.37					U L	0.032
PCB-202	Octa		3.1	2.1	4.7	J L	3.9	0.6	0.33	1.1		L	0.4
PCB-203	Octa					C196						C196	
PCB-204	Octa	PRC											
PCB-205	Octa		1	0.69	1.5	J L	3.8	0.11	0.06	0.2		J L	0.41
PCB-206	Nona		4.3	2.6	6.9	J L	4.3	0.35	0.17	0.73		L	0.3
PCB-207	Nona		0.87	0.52	1.5	L	4.6	0.083	0.037	0.19		L	0.26
PCB-208	Nona		1.9	1.1	3.2	J L	4.6	0.13	0.059	0.29		J L	0.26
PCB-209	Deca		3.6	1.9	6.8	L	5.4	0.067	0.025	0.18		L	0.18
Total Detected PCB Congeners			15000	13000	19000			9800	7100	15000			

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR+AC-CC-S010				LDW-Y2-SU-ENR-CA-S010					LDW-Y2-SU-ENR-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta		0.25	0.23	0.28	J	0.85				U L	0.54	0.59	0.5	0.69	J	1.3
PCB-110	Penta		290	260	330		0.85	220	190	260	L	1.6	410	350	480		1.3
PCB-111	Penta		6	5.4	6.7	C	0.76	4.9	4.1	5.8	C L	1.5	6.4	5.4	7.5	C	1.2
PCB-112	Penta					C083					C083					C083	
PCB-113	Penta					U	0.27				U L	0.59				U	0.31
PCB-114	Penta		3.3	3	3.7		0.69	2.6	2.2	3.1	L	1.4	4.8	4.1	5.7	L	1.2
PCB-115	Penta					C111					C111					C111	
PCB-116	Penta					C085					C085					C085	
PCB-117	Penta					C087					C087					C087	
PCB-118	Penta					C106					C106					C106	
PCB-119	Penta		6.3	5.7	7.1		0.85	6.2	5.2	7.4	L	1.6	11	9.8	13		1.3
PCB-120	Penta		0.99	0.89	1.1		0.69				U L	0.45	1.3	1.1	1.5	L	1.2
PCB-121	Penta	PRC															
PCB-122	Penta		1.9	1.7	2.1		0.69	1.4	1.2	1.7	L	1.4	2.6	2.2	3.1	L	1.2
PCB-123	Penta		2.6	2.4	2.9		0.69	2.6	2.2	3.1	L	1.4	4.5	3.8	5.3	L	1.2
PCB-124	Penta		6	5.4	6.6		0.69	4.9	4.1	5.8	L	1.4	8.8	7.5	10	L	1.2
PCB-125	Penta					C087					C087					C087	
PCB-126	Penta		0.48	0.43	0.54	J	0.55	0.41	0.35	0.49	J L	1.2	0.78	0.67	0.92	J L	1
PCB-127	Penta					U	0.14				U L	0.19				U L	0.19
PCB-128	Hexa		9.2	8.1	10	C	0.37	8.3	7	10	C L	0.9	20	17	24	C L	0.82
PCB-129	Hexa		3.9	3.5	4.4		0.41	2.7	2.2	3.2	L	0.96	7.6	6.5	9.1	L	0.86
PCB-130	Hexa		5	4.5	5.6		0.41	4	3.4	4.8	L	0.96	11	9.2	13	L	0.86
PCB-131	Hexa		3	2.7	3.4	C	0.44	2.9	2.4	3.4	C L	1	5.5	4.6	6.5	C L	0.9
PCB-132	Hexa		28	25	32	C	0.44	30	25	35	C L	1	52	44	61	C L	0.9
PCB-133	Hexa					C131					C131					C131	
PCB-134	Hexa		7.7	6.9	8.6	C	0.48	7	5.9	8.3	C L	1.1	13	11	15	C L	0.95
PCB-135	Hexa		18	16	20		0.48	16	13	19	L	1.1	31	26	37	L	0.95
PCB-136	Hexa		18	16	20		0.42	16	14	20	L	0.97	33	28	40	L	0.87
PCB-137	Hexa		3.5	3.1	3.9		0.41	3	2.5	3.6	L	0.96	6.5	5.5	7.7	L	0.86
PCB-138	Hexa		69	62	78	C	0.41	68	57	81	C L	0.96	140	120	170	C L	0.86
PCB-139	Hexa		89	79	99	C	0.48	84	71	100	C L	1.1	160	140	190	C L	0.95
PCB-140	Hexa		0.8	0.71	0.89		0.48	1	0.86	1.2	J L	1.1	1.8	1.5	2.1	L	0.95
PCB-141	Hexa		14	12	16		0.41	13	11	15	L	0.96	28	23	33	L	0.86
PCB-142	Hexa	PRC															
PCB-143	Hexa					C134					C134					C134	
PCB-144	Hexa		5.4	4.9	6.1		0.48	5.5	4.6	6.5	L	1.1	9.4	8	11	L	0.95
PCB-145	Hexa					U	0.041				U L	0.048				U L	0.058
PCB-146	Hexa		11	9.8	12	C	0.41	14	11	16	C L	0.96	24	20	28	C L	0.86
PCB-147	Hexa		2.4	2.1	2.6		0.48	2.1	1.8	2.5	L	1.1	4.1	3.5	4.9	L	0.95
PCB-148	Hexa					U	0.067				U L	0.074				U L	0.088
PCB-149	Hexa					C139					C139					C139	
PCB-150	Hexa		0.26	0.23	0.29	J	0.42	0.4	0.33	0.47	J L	0.97	0.56	0.47	0.66	J L	0.87
PCB-151	Hexa		28	25	31		0.48	28	23	33	L	1.1	48	41	56	L	0.95
PCB-152	Hexa		0.14	0.12	0.15	J	0.42				U L	0.049	0.3	0.25	0.35	J L	0.87
PCB-153	Hexa		61	54	69		0.41	60	51	72	L	0.96	130	110	160	L	0.86
PCB-154	Hexa		1.3	1.2	1.5		0.48	2	1.7	2.3	L	1.1	3.3	2.8	3.9	L	0.95
PCB-155	Hexa	PRC															
PCB-156	Hexa		4.3	3.8	4.8		0.34	4.3	3.6	5.2	L	0.85	9.8	8.2	12	L	0.78
PCB-157	Hexa		0.77	0.68	0.88		0.34	1	0.87	1.3	L	0.85	2.3	1.9	2.8	L	0.78
PCB-158	Hexa		7.9	7	8.9	C	0.41	7.4	6.2	8.9	C L	0.96	16	13	19	C L	0.86
PCB-159	Hexa		0.49	0.43	0.56		0.34	0.84	0.7	1	J L	0.85	0.93	0.78	1.1	L	0.78
PCB-160	Hexa					C158					C158					C158	
PCB-161	Hexa					C132					C132					C132	
PCB-162	Hexa					C128					C128					C128	
PCB-163	Hexa					C138					C138					C138	
PCB-164	Hexa					C138					C138					C138	
PCB-165	Hexa					C146					C146					C146	
PCB-166	Hexa		0.38	0.34	0.43	J	0.41				U L	0.17				U L	0.18
PCB-167	Hexa		1.7	1.5	1.9		0.34	1.9	1.6	2.3	L	0.85	4.1	3.4	4.9	L	0.78
PCB-168	Hexa					U	0.1				U L	0.16				U L	0.17
PCB-169	Hexa					U	0.074				U L	0.13				U L	0.14
PCB-170	Hepta		3.8	3.3	4.5	L	0.2	5.3	4.2	6.7	L	0.59	14	11	18	L	0.58
PCB-171	Hepta		1.6	1.3	1.8		0.23	2.2	1.8	2.8	L	0.65	5.5	4.4	6.8	L	0.63
PCB-172	Hepta		0.79	0.67	0.92	L	0.2	1.3	1.1	1.7	L	0.59	3	2.4	3.8	L	0.58
PCB-173	Hepta		0.18	0.15	0.21	J	0.23				U L	0.066	0.61	0.49	0.76	J L	0.63
PCB-174	Hepta		6.3	5.5	7.4		0.23	9	7.2	11	L	0.65	22	18	27	L	0.63
PCB-175	Hepta		0.32	0.28	0.37		0.23				U L	0.059	1.1	0.9	1.4	L	0.63
PCB-176	Hepta		0.95	0.81	1.1	L	0.2	1.4	1.1	1.8	L	0.58	3.5	2.7	4.4	L	0.57
PCB-177	Hepta		4	3.4	4.6		0.23	5.3	4.3	6.6	L	0.65	13	11	16	L	0.63
PCB-178	Hepta		1.4	1.2	1.6		0.23	2.2	1.8	2.8	L	0.65	4.9	4	6.1	L	0.63
PCB-179	Hepta		3.1	2.7	3.7	L	0.2	4.5	3.5	5.7	L	0.58	11	8.4	13	L	0.57
PCB-180	Hepta		9.7	8.3	11	L	0.2	15	12	19	L	0.59	36	29	45	L	0.58
PCB-181	Hepta					U	0.037				U L	0.058				U L	0.07
PCB-182	Hepta		7.6	6.5	8.8	C	0.23	11	9.1	14	C L	0.65	26	21	33	C L	0.63
PCB-183	Hepta		3.7	3.2	4.2		0.23	5.2	4.2	6.5	L	0.65	13	11	16	L	0.63
PCB-184	Hepta	PRC															
PCB-185	Hepta		0.75	0.65	0.87		0.23	1.2	0.99	1.5	L	0.65	2.6	2.1	3.2	L	0.63
PCB-186	Hepta					U L	0.022	0.17	0.13	0.22	J L	0.58				U L	0.045
PCB-187	Hepta					C182					C182					C182	
PCB-188	Hepta		0.099	0.084	0.12	J L	0.2	0.32	0.25	0.41	J L	0.58	0.39	0.31	0.49	J L	0.57
PCB-189	Hepta		0.12	0.1	0.15	J L	0.17	0.2	0.16	0.26	J L	0.53	0.46	0.36	0.59	J L	0.53
PCB-190	Hepta		0.84	0.72	0.98	L	0.2	1.2	0.93	1.5	L	0.59	3	2.4	3.8	L	0.58
PCB-191	Hepta		0.21	0.18	0.25	L	0.2				U L	0.041	0.71	0.56	0.89	L	0.58
PCB-192	Hepta	PRC															
PCB-193	Hepta		0.55	0.47	0.64	L	0.2	0.82	0.65	1	L	0.59	2.1	1.7	2.6	L	0.58
PCB-194	Octa		0.58	0.46	0.72	L	0.1	1.1	0.79	1.5	L	0.37	3.6	2.6	4.9	L	0.4
PCB-195	Octa		0.3	0.24	0.36	L	0.12	0.61	0.45	0.83	L	0.4	1.8	1.3	2.4	L	0.43
PCB-196	Octa		1	0.85	1.3	C L	0.12	1.7	1.3	2.3	C L	0.4	5.1	3.8	6.9	C L	0.43
PCB-197	Octa		0.031	0.024	0.038	L	0.097				U B L	0.35	0.12	0.091	0.17	L	0.38
PCB-198	Octa		0.05	0.041	0.062	J L	0.12	0.13	0.096	0.18	J L	0.4	0.27	0.2	0.36	J L	0.43
PCB-199	Octa		0.79	0.63	0.99	L	0.097	1.5	1.1	2.1	L	0.35	4.2	3.1	5.8	L	0.38
PCB-200	Octa		0.11	0.087	0.14	L	0.097	0.23	0.16	0.31	J L	0.35	0.64	0.47	0.88	L	0.38
PCB-201	Octa		0.14	0.12	0.18	L	0.12	0.25	0.19	0.34	J L	0.4	0.74	0.55	1	L	0.43
PCB-202	Octa		0.21	0.17	0.27	L	0.097										

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SU-ENR-CC-S010				LDW-Y2-SU-S010-LCB					LDW-Y2-IN-ENR+AC-CA-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.38				U L	0.14				U	0.11
PCB-110	Penta		190	150	250	L	1.6	1.2	0.29	5.8	J L	2.4	19	17	22		0.81
PCB-111	Penta		3.9	3.1	5	C L	1.5				U C L	0.12	0.3	0.26	0.35	C, J	0.74
PCB-112	Penta					C083					C083					C083	
PCB-113	Penta					U L	0.39				U L	0.14				U	0.11
PCB-114	Penta		3	2.4	3.9	L	1.3				U L	0.11	0.25	0.22	0.29	J	0.68
PCB-115	Penta					C111					C111					C111	
PCB-116	Penta					C085					C085					C085	
PCB-117	Penta					C087					C087					C087	
PCB-118	Penta					C106					C106					C106	
PCB-119	Penta		5.7	4.4	7.3	L	1.6				U L	0.13	0.47	0.41	0.55	J	0.81
PCB-120	Penta					U L	0.29				U L	0.11				U	0.09
PCB-121	Penta	PRC															
PCB-122	Penta		1.5	1.1	1.9	L	1.3				U L	0.11	0.13	0.11	0.15	J	0.68
PCB-123	Penta		2.2	1.7	2.8	L	1.3				U L	0.11	0.22	0.19	0.25	J	0.68
PCB-124	Penta		5.1	4	6.5	L	1.3				U L	0.11	0.57	0.49	0.66	J	0.68
PCB-125	Penta					C087					C087					C087	
PCB-126	Penta		0.65	0.51	0.83	J L	1.1				U L	0.097				U	0.049
PCB-127	Penta					U L	0.21				U L	0.09				U	0.044
PCB-128	Hexa		8.2	6.3	11	C L	0.81				U C L	0.069	1.1	0.93	1.3	C	0.41
PCB-129	Hexa		3.1	2.4	4.1	L	0.87				U L	0.1	0.45	0.38	0.53		0.44
PCB-130	Hexa		4.5	3.5	5.9	L	0.87				U L	0.1	0.71	0.6	0.84		0.44
PCB-131	Hexa		2.3	1.8	3	C L	0.93				U C L	0.11	0.29	0.25	0.35	C, J	0.47
PCB-132	Hexa		25	19	33	C L	0.93				U C L	0.081	2.6	2.3	3.1	C	0.47
PCB-133	Hexa					C131					C131					C131	
PCB-134	Hexa		5.9	4.6	7.7	C L	1				U C L	0.11	0.75	0.64	0.88	C	0.5
PCB-135	Hexa		16	13	21	L	1				U L	0.11	1.8	1.5	2.1		0.5
PCB-136	Hexa		15	12	20	L	0.88				U L	0.076	1.9	1.6	2.2		0.44
PCB-137	Hexa		2.9	2.2	3.7	L	0.87				U L	0.085	0.46	0.39	0.55		0.44
PCB-138	Hexa		63	49	82	C L	0.87	0.29	0.05	2.2	C, J L	1.2	7.5	6.3	8.8	C	0.44
PCB-139	Hexa		84	65	110	C L	1	0.5	0.094	3.4	C, J L	1.4	8.7	7.5	10	C	0.5
PCB-140	Hexa		0.95	0.74	1.2	J L	1				U L	0.096				U	0.038
PCB-141	Hexa		13	10	17	L	0.87				U L	0.089	1.4	1.2	1.7		0.44
PCB-142	Hexa	PRC															
PCB-143	Hexa					C134					C134					C134	
PCB-144	Hexa		5	3.9	6.5	L	1				U L	0.1	0.48	0.41	0.57	J	0.5
PCB-145	Hexa					U L	0.086				U L	0.072				U	0.033
PCB-146	Hexa		12	9.5	16	C L	0.87				U C L	0.07	1.7	1.5	2.1	C	0.44
PCB-147	Hexa		1.8	1.4	2.4	L	1				U L	0.09	0.28	0.24	0.33	J	0.5
PCB-148	Hexa					U L	0.12				U L	0.12				U	0.054
PCB-149	Hexa					C139					C139					C139	
PCB-150	Hexa		0.37	0.29	0.48	J L	0.88				U L	0.062				U	0.029
PCB-151	Hexa		25	20	33	L	1				U L	0.11	2.5	2.1	2.9		0.5
PCB-152	Hexa					U L	0.09				U L	0.068				U	0.032
PCB-153	Hexa		65	50	85	L	0.87	2	0.35	16	L	1.2	7.7	6.6	9.2		0.44
PCB-154	Hexa		1.4	1.1	1.7	L	1	0.3	0.057	2	J L	1.4	0.35	0.3	0.41		0.5
PCB-155	Hexa	PRC															
PCB-156	Hexa		3.9	2.9	5.1	L	0.75				U L	0.056	0.45	0.38	0.54		0.38
PCB-157	Hexa		1	0.79	1.4	L	0.75				U L	0.057	0.17	0.14	0.21	J	0.38
PCB-158	Hexa		7	5.4	9.1	C L	0.87	0.2	0.034	1.5	C, J L	1.2	0.91	0.77	1.1	C	0.44
PCB-159	Hexa		0.89	0.68	1.2	L	0.75	0.26	0.04	2.4	J L	0.99	0.16	0.13	0.19	J	0.38
PCB-160	Hexa					C158					C158					C158	
PCB-161	Hexa					C132					C132					C132	
PCB-162	Hexa					C128					C128					C128	
PCB-163	Hexa					C138					C138					C138	
PCB-164	Hexa					C138					C138					C138	
PCB-165	Hexa					C146					C146					C146	
PCB-166	Hexa					U L	0.18				U L	0.064				U	0.027
PCB-167	Hexa		1.4	1.1	1.8	L	0.75				U L	0.049	0.23	0.19	0.28	J	0.38
PCB-168	Hexa					U L	0.17				U L	0.064				U	0.027
PCB-169	Hexa					U L	0.12				U L	0.042				U	0.019
PCB-170	Hepta		3.8	2.7	5.3	L	0.48				U L	0.049	0.46	0.37	0.59	L	0.25
PCB-171	Hepta		1.6	1.2	2.3	L	0.55				U L	0.054				U L	0.016
PCB-172	Hepta		0.79	0.56	1.1	L	0.48	0.83	0.085	12	L	0.59	0.2	0.16	0.25	L	0.25
PCB-173	Hepta					U L	0.085				U L	0.06				U L	0.018
PCB-174	Hepta		6.7	4.8	9.2	L	0.55				U L	0.057	0.76	0.62	0.94	L	0.28
PCB-175	Hepta		0.44	0.32	0.61	J L	0.55				U L	0.053	0.045	0.036	0.056	J L	0.28
PCB-176	Hepta		1.2	0.83	1.7	L	0.47				U L	0.034	0.12	0.093	0.15	J L	0.24
PCB-177	Hepta		4	2.9	5.6	L	0.55				U L	0.063	0.48	0.39	0.6	L	0.28
PCB-178	Hepta		1.8	1.3	2.5	L	0.55				U L	0.062	0.25	0.2	0.31	J L	0.28
PCB-179	Hepta		3.8	2.7	5.5	L	0.47				U L	0.034	0.41	0.32	0.51	L	0.24
PCB-180	Hepta		10	7.4	15	L	0.48				U L	0.049	1.3	1	1.6	L	0.25
PCB-181	Hepta					U L	0.078	0.25	0.029	3.2	J L	0.68	0.094	0.076	0.12	J L	0.28
PCB-182	Hepta		9.2	6.7	13	C L	0.55	0.15	0.017	1.9	C, J L	0.68	1.1	0.85	1.3	C L	0.28
PCB-183	Hepta		4	2.9	5.5	L	0.55	0.24	0.027	3.1	J L	0.68	0.54	0.43	0.66	L	0.28
PCB-184	Hepta	PRC															
PCB-185	Hepta		0.88	0.64	1.2	L	0.55				U L	0.057	0.1	0.081	0.12	J L	0.28
PCB-186	Hepta		0.16	0.12	0.23	J L	0.47	0.14	0.014	2.1	J L	0.57	0.048	0.038	0.061	J L	0.24
PCB-187	Hepta					C182					C182					C182	
PCB-188	Hepta		0.31	0.22	0.44	J L	0.47	0.11	0.011	1.7	J L	0.57	0.074	0.059	0.094	J L	0.24
PCB-189	Hepta		0.23	0.16	0.34	J L	0.42				U L	0.024				U L	0.0073
PCB-190	Hepta		0.93	0.66	1.3	L	0.48				U L	0.034	0.11	0.091	0.14	J L	0.25
PCB-191	Hepta					U L	0.05				U L	0.035				U L	0.011
PCB-192	Hepta	PRC															
PCB-193	Hepta		0.67	0.48	0.96	L	0.48				U L	0.034	0.1	0.081	0.13	J L	0.25
PCB-194	Octa		0.89	0.56	1.4	L	0.27				U L	0.022	0.089	0.065	0.12	J L	0.15
PCB-195	Octa		0.51	0.32	0.8	L	0.3				U L	0.028	0.049	0.036	0.066	J L	0.16
PCB-196	Octa		1.3	0.81	2	C L	0.3				U C L	0.022	0.16	0.12	0.21	C, J L	0.16
PCB-197	Octa		0.043	0.026	0.07	L	0.26				U B L	0.28	0.011	0.0082	0.016	L	0.14
PCB-198	Octa		0.15	0.095	0.23	J L	0.3				U L	0.028				U L	0.019
PCB-199	Octa		1.1	0.66	1.7	L	0.26				U L	0.02	0.13	0.096	0.19	J L	0.14
PCB-200	Octa		0.2	0.12	0.33	J L	0.26				U L	0.017				U L	0.012
PCB-201	Octa		0.16	0.1	0.25	J L	0.3				U L	0.021	0.031	0.023	0.042	J L	0.16
PCB-202	Octa		0.32	0.2	0.53	L	0.26				U L	0.016	0.048	0.035	0.067	J L	0.14
PCB-203	Octa					C196					C196					C196	
PCB-204	Octa	PRC															
PCB-205	Octa		0.2	0.13	0.33	J L	0.27	</									

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CB-S010				LDW-Y2-IN-ENR+AC-CC-S010				LDW-Y2-IN-ENR-CA-S010							
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.45					U L	0.76				U	0.25
PCB-110	Penta		65	43	100	L	1.7	43	33	57	L	1.6	27	24	31			0.82
PCB-111	Penta		1	0.65	1.6	C,J,L	1.6	0.74	0.56	0.98	C,J,L	1.6	0.45	0.4	0.51	C,J		0.75
PCB-112	Penta					C083					C083					C083		
PCB-113	Penta					U L	0.44				U L	0.74				U		0.24
PCB-114	Penta					U L	0.27				U L	0.34	0.35	0.31	0.39	J		0.68
PCB-115	Penta					C111					C111					C111		
PCB-116	Penta					C085					C085					C085		
PCB-117	Penta					C087					C087					C087		
PCB-118	Penta					C106					C106					C106		
PCB-119	Penta		1.8	1.2	2.9	L	1.7	1.3	0.98	1.7	J,L	1.6	0.77	0.69	0.87	J		0.82
PCB-120	Penta					U L	0.38				U L	0.66				U		0.19
PCB-121	Penta	PRC																
PCB-122	Penta					U L	0.29				U L	0.34	0.23	0.21	0.26	J		0.68
PCB-123	Penta		0.61	0.4	0.97	J,L	1.6	0.55	0.42	0.72	J,L	1.5	0.35	0.32	0.4	J		0.68
PCB-124	Penta		1.8	1.1	2.8	L	1.6	1.2	0.94	1.6	J,L	1.5	0.84	0.75	0.94			0.68
PCB-125	Penta					C087					C087					C087		
PCB-126	Penta					U L	0.3				U L	0.37				U		0.12
PCB-127	Penta					U L	0.27				U L	0.32				U		0.11
PCB-128	Hexa		3.8	2.3	6.5	C,L	1.2	3.2	2.3	4.4	C,L	1.2	1.3	1.2	1.5	C		0.4
PCB-129	Hexa		1.8	1.1	3	L	1.2	1.3	0.92	1.7	L	1.2	0.54	0.48	0.61			0.43
PCB-130	Hexa		2.7	1.7	4.5	L	1.2	2	1.5	2.8	L	1.2	0.95	0.84	1.1			0.43
PCB-131	Hexa		0.81	0.5	1.3	C,J,L	1.3	1.2	0.87	1.6	C,J,L	1.3	0.45	0.4	0.52	C,J		0.46
PCB-132	Hexa		9.1	5.6	15	C,L	1.3	8.8	6.5	12	C,L	1.3	3.6	3.1	4	C		0.46
PCB-133	Hexa					C131					C131					C131		
PCB-134	Hexa		2.4	1.5	3.8	C,L	1.3	2.2	1.6	3	C,L	1.3	1	0.91	1.2	C		0.5
PCB-135	Hexa		6.7	4.2	11	L	1.3	5.1	3.8	6.9	L	1.3	2.4	2.2	2.7			0.5
PCB-136	Hexa		7.2	4.4	12	L	1.2	5.6	4.1	7.7	L	1.2	2.3	2	2.6			0.44
PCB-137	Hexa		1.8	1.1	3	L	1.2	1.5	1.1	2	L	1.2	0.58	0.51	0.66			0.43
PCB-138	Hexa		32	19	52	C,L	1.2	22	16	30	C,L	1.2	9.9	8.7	11	C		0.43
PCB-139	Hexa		35	22	56	C,L	1.3	26	19	34	C,L	1.3	12	10	13	C		0.5
PCB-140	Hexa					U L	0.3				U L	0.34	0.17	0.15	0.19	J		0.5
PCB-141	Hexa		6	3.7	10	L	1.2	4.4	3.2	6	L	1.2	1.8	1.6	2.1			0.43
PCB-142	Hexa	PRC																
PCB-143	Hexa					C134					C134					C134		
PCB-144	Hexa		2.3	1.4	3.8	L	1.3	1.4	1	1.8	L	1.3	0.63	0.56	0.71			0.5
PCB-145	Hexa					U L	0.13				U L	0.16				U		0.055
PCB-146	Hexa		6.6	4	11	C,L	1.2	7.1	5.2	9.8	C,L	1.2	2.5	2.2	2.9	C		0.43
PCB-147	Hexa		1.1	0.69	1.8	J,L	1.3	0.98	0.73	1.3	J,L	1.3	0.42	0.37	0.47	J		0.5
PCB-148	Hexa					U L	0.19				U L	0.24				U		0.088
PCB-149	Hexa					C139					C139					C139		
PCB-150	Hexa					U L	0.11				U L	0.14				U		0.047
PCB-151	Hexa		10	6.3	16	L	1.3	6.7	5	9	L	1.3	3.4	3.1	3.9			0.5
PCB-152	Hexa					U L	0.12				U L	0.16				U		0.052
PCB-153	Hexa		32	19	53	L	1.2	23	17	31	L	1.2	10	8.8	11			0.43
PCB-154	Hexa		1.1	0.67	1.7	L	1.3	1.2	0.86	1.6	L	1.3	0.47	0.42	0.53			0.5
PCB-155	Hexa	PRC																
PCB-156	Hexa		2	1.2	3.4	L	1.1	1.2	0.87	1.7	L	1.2	0.59	0.52	0.68			0.37
PCB-157	Hexa		0.74	0.43	1.3	J,L	1.1				U L	0.23	0.2	0.17	0.23	J		0.37
PCB-158	Hexa		3.3	2	5.5	C,L	1.2	2.6	1.9	3.6	C,L	1.2	0.97	0.86	1.1	C		0.43
PCB-159	Hexa					U L	0.19	0.61	0.43	0.85	J,L	1.2	0.18	0.15	0.2	J		0.37
PCB-160	Hexa					C158					C158					C158		
PCB-161	Hexa					C132					C132					C132		
PCB-162	Hexa					C128					C128					C128		
PCB-163	Hexa					C138					C138					C138		
PCB-164	Hexa					C138					C138					C138		
PCB-165	Hexa					C146					C146					C146		
PCB-166	Hexa					U L	0.22				U L	0.25				U		0.069
PCB-167	Hexa		1	0.6	1.7	J,L	1.1	0.8	0.57	1.1	J,L	1.2	0.31	0.27	0.35	J		0.37
PCB-168	Hexa					U L	0.22				U L	0.25				U		0.069
PCB-169	Hexa					U L	0.16				U L	0.22				U		0.05
PCB-170	Hepta		2.2	1.1	4.2	L	0.88	1.8	1.2	2.8	L	0.96	0.55	0.46	0.66	L		0.24
PCB-171	Hepta		0.82	0.44	1.5	J,L	0.94	0.99	0.66	1.5	J,L	1	0.25	0.22	0.3	J,L		0.27
PCB-172	Hepta		0.4	0.21	0.79	L	0.88	0.88	0.57	1.4	L	0.96	0.071	0.059	0.085	L		0.24
PCB-173	Hepta					U L	0.16				U L	0.23				U L		0.05
PCB-174	Hepta		3.7	2	6.9	L	0.94	2.8	1.9	4.2	L	1	0.85	0.72	1	L		0.27
PCB-175	Hepta					U L	0.14				U L	0.2				U L		0.044
PCB-176	Hepta		0.68	0.35	1.3	J,L	0.87	0.5	0.32	0.78	J,L	0.95	0.14	0.12	0.17	J,L		0.23
PCB-177	Hepta		2	1.1	3.8	L	0.94	1.9	1.2	2.8	L	1	0.64	0.54	0.76	L		0.27
PCB-178	Hepta		1.2	0.64	2.2	L	0.94	1	0.69	1.6	L	1	0.32	0.27	0.38	L		0.27
PCB-179	Hepta					U L	0.1	1.9	1.2	2.9	L	0.95	0.55	0.46	0.66	L		0.23
PCB-180	Hepta		6.3	3.3	12	L	0.88	5.7	3.7	8.9	L	0.96	1.7	1.4	2.1	L		0.24
PCB-181	Hepta					U L	0.14				U L	0.2				U L		0.042
PCB-182	Hepta		5.2	2.8	9.7	C,L	0.94	3.9	2.6	5.9	C,L	1	1.2	1	1.4	C,L		0.27
PCB-183	Hepta		2.5	1.4	4.7	L	0.94	2	1.3	3	L	1	0.64	0.54	0.76	L		0.27
PCB-184	Hepta	PRC																
PCB-185	Hepta		0.52	0.28	0.97	J,L	0.94				U L	0.22				U L		0.048
PCB-186	Hepta					U L	0.1				U L	0.15				U L		0.029
PCB-187	Hepta					C182					C182					C182		
PCB-188	Hepta		0.27	0.14	0.52	J,L	0.87	0.5	0.32	0.78	J,L	0.95	0.11	0.095	0.14	J,L		0.23
PCB-189	Hepta					U L	0.087				U L	0.11				U L		0.021
PCB-190	Hepta		0.47	0.25	0.92	J,L	0.88	0.4	0.26	0.61	J,L	0.96	0.15	0.12	0.18	J,L		0.24
PCB-191	Hepta					U L	0.1				U L	0.15				U L		0.03
PCB-192	Hepta	PRC																
PCB-193	Hepta					U L	0.1				U L	0.15	0.12	0.1	0.14	J,L		0.24
PCB-194	Octa		0.54	0.23	1.3	J,L	0.65	0.57	0.31	1	J,L	0.75	0.1	0.08	0.13	J,L		0.13
PCB-195	Octa		0.27	0.12	0.62	J,L	0.69	0.29	0.17	0.52	J,L	0.78	0.051	0.04	0.064	J,L		0.15
PCB-196	Octa		0.87	0.38	2	C,L	0.69	0.82	0.46	1.5	C,L	0.78	0.17	0.13	0.22	C,L		0.15
PCB-197	Octa		0.31	0.13	0.75	L	0.63	0.3	0.16	0.55	L	0.74	0.039	0.03	0.05	L		0.12
PCB-198	Octa					U L	0.1				U L	0.14				U L		0.03
PCB-199	Octa		0.69	0.28	1.7	L	0.63	0.75	0.41	1.4	L	0.74	0.15	0.11	0.19	L		0.12
PCB-200	Octa					U L	0.067				U L	0.093				U L		0.019
PCB-201	Octa					U L	0.076				U L	0.1				U L		0.023
PCB-202	Octa		0.															

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-S010				LDW-Y2-IN-ENR-CE-S010				LDW-Y2-SC-ENR+AC-CA/AC-CD-SSWI						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.95				U	0.36				U	0.3
PCB-110	Penta		120	95	150	L	4.3	53	45	62		1.3	27	23	31		1.5
PCB-111	Penta		1.8	1.4	2.3	C,J,L	4.4	0.86	0.73	1	C,J	1.2	0.59	0.51	0.68	C,J	1.3
PCB-112	Penta					C083					C083					C083	
PCB-113	Penta					U L	0.92				U	0.34				U	0.32
PCB-114	Penta		1.9	1.4	2.5	J,L	4.6	0.78	0.67	0.92	J	1.1	0.41	0.36	0.47	J	1.2
PCB-115	Penta					C111					C111					C111	
PCB-116	Penta					C085					C085					C085	
PCB-117	Penta					C087					C087					C087	
PCB-118	Penta					C106					C106					C106	
PCB-119	Penta		3.7	2.9	4.6	J,L	4.3	1.5	1.3	1.8		1.3	0.9	0.78	1	J	1.5
PCB-120	Penta					U L	0.96				U	0.3				U	0.22
PCB-121	Penta	PRC															
PCB-122	Penta		1.2	0.89	1.5	J,L	4.6				U	0.2	0.25	0.21	0.28	J	1.2
PCB-123	Penta		1.9	1.4	2.4	J,L	4.6	0.69	0.59	0.81	J	1.1	0.32	0.28	0.37	J	1.2
PCB-124	Penta		4.2	3.2	5.5	J,L	4.6	1.3	1.1	1.5		1.1	0.7	0.61	0.81	J	1.2
PCB-125	Penta					C087					C087					C087	
PCB-126	Penta					U L	0.91	0.28	0.24	0.33	J	0.92				U	0.14
PCB-127	Penta					U L	0.76				U	0.18				U	0.12
PCB-128	Hexa		18	12	28	C,L	5.8	2.5	2.1	2.9	C,L	0.69	1.1	0.92	1.3	C	0.58
PCB-129	Hexa		6.6	4.4	9.8	L	5.6	1.1	0.94	1.3	L	0.73	0.43	0.37	0.51	J	0.65
PCB-130	Hexa		10	7	15	L	5.6	1.4	1.2	1.6	L	0.73	0.61	0.52	0.71	J	0.65
PCB-131	Hexa		4.4	3	6.4	C,J,L	5.4	0.8	0.67	0.94	C	0.78	0.38	0.33	0.44	C,J	0.71
PCB-132	Hexa		33	22	47	C,L	5.4	5.4	4.6	6.4	C	0.78	3.4	2.9	3.9	C	0.71
PCB-133	Hexa					C131					C131					C131	
PCB-134	Hexa		9.1	6.4	13	C,L	5.3	1.8	1.5	2.1	C	0.83	0.93	0.81	1.1	C	0.78
PCB-135	Hexa		19	14	28	L	5.3	1.2	1	1.4		0.83	2.4	2.1	2.8		0.78
PCB-136	Hexa		24	16	35	L	5.6	3.5	2.9	4.2	L	0.74	2.5	2.1	2.9		0.66
PCB-137	Hexa		5.8	3.9	8.6	L	5.6	1.2	1	1.4	L	0.73	0.47	0.41	0.55	J	0.65
PCB-138	Hexa		110	74	160	C,L	5.6	16	13	19	C,L	0.73	9.6	8.2	11	C	0.65
PCB-139	Hexa		100	72	150	C,L	5.3	17	14	20	C	0.83	13	12	16	C	0.78
PCB-140	Hexa					U L	1				U	0.24	0.27	0.23	0.32	J	0.78
PCB-141	Hexa		18	12	27	L	5.6	3.2	2.7	3.8	L	0.73	1.8	1.5	2.1		0.65
PCB-142	Hexa	PRC															
PCB-143	Hexa					C134					C134					C134	
PCB-144	Hexa		5.9	4.1	8.4	L	5.3	1.2	0.98	1.4		0.83	0.89	0.77	1		0.78
PCB-145	Hexa					U L	0.51				U L	0.13				U	0.056
PCB-146	Hexa		26	18	39	C,L	5.6	3.4	2.8	4	C,L	0.73	1.9	1.6	2.2	C	0.65
PCB-147	Hexa		3.5	2.4	5	J,L	5.3	0.62	0.52	0.73	J	0.83	0.32	0.28	0.37	J	0.78
PCB-148	Hexa					U L	0.68				U	0.22				U	0.1
PCB-149	Hexa					C139					C139					C139	
PCB-150	Hexa					U L	0.44				U L	0.12				U	0.055
PCB-151	Hexa		30	21	42	L	5.3	5.7	4.8	6.7		0.83	4.5	3.9	5.2		0.78
PCB-152	Hexa					U L	0.48				U L	0.13				U	0.062
PCB-153	Hexa		100	69	150	L	5.6	15	13	18	L	0.73	11	9.2	13		0.65
PCB-154	Hexa		3.1	2.2	4.5	L	5.3	0.47	0.4	0.55	J	0.83	0.4	0.34	0.46	J	0.78
PCB-155	Hexa	PRC															
PCB-156	Hexa		7.8	5	12	L	6	1.2	0.96	1.4	L	0.65	0.55	0.47	0.65		0.53
PCB-157	Hexa		3	1.9	4.7	J,L	6	0.4	0.34	0.49	J,L	0.65	0.15	0.12	0.17	J	0.53
PCB-158	Hexa		12	8.1	18	C,L	5.6	1.9	1.6	2.2	C,L	0.73	0.96	0.82	1.1	C	0.65
PCB-159	Hexa		2.7	1.7	4.1	J,L	6				U L	0.15	0.19	0.16	0.23	J	0.53
PCB-160	Hexa					C158					C158					C158	
PCB-161	Hexa					C132					C132					C132	
PCB-162	Hexa					C128					C128					C128	
PCB-163	Hexa					C138					C138					C138	
PCB-164	Hexa					C138					C138					C138	
PCB-165	Hexa					C146					C146					C146	
PCB-166	Hexa					U L	0.86				U L	0.18				U	0.092
PCB-167	Hexa		4.4	2.8	6.9	J,L	6	0.6	0.5	0.72	J,L	0.65	0.27	0.23	0.32	J	0.53
PCB-168	Hexa					U L	0.85				U L	0.17				U	0.087
PCB-169	Hexa					U L	0.89				U L	0.16				U	0.05
PCB-170	Hepta		12	6.9	22	L	7.4	1.2	0.91	1.5	L	0.44	0.65	0.53	0.8		0.29
PCB-171	Hepta		4.3	2.5	7.5	J,L	7	0.56	0.45	0.7	L	0.49	0.29	0.23	0.35	J	0.34
PCB-172	Hepta		11	6.2	20	L	7.4	0.41	0.32	0.53	L	0.44	0.17	0.14	0.21		0.29
PCB-173	Hepta					U L	1.1				U L	0.12				U	0.066
PCB-174	Hepta		16	9.4	28	L	7	1.6	1.3	2	L	0.49	1	0.86	1.3		0.34
PCB-175	Hepta					U L	1				U L	0.11				U	0.058
PCB-176	Hepta		3.7	2	6.7	J,L	7.5	0.28	0.22	0.36	J,L	0.43	0.18	0.14	0.22	J	0.27
PCB-177	Hepta		13	7.3	22	L	7	1.1	0.84	1.3	L	0.49	0.61	0.5	0.74		0.34
PCB-178	Hepta		6.1	3.6	11	J,L	7	0.5	0.4	0.62	L	0.49	0.31	0.25	0.38	J	0.34
PCB-179	Hepta		12	6.6	22	L	7.5	0.81	0.63	1	L	0.43	0.47	0.38	0.58		0.27
PCB-180	Hepta		40	22	73	L	7.4	2.8	2.2	3.6	L	0.44	0.18	0.15	0.22	J	0.29
PCB-181	Hepta					U L	0.96				U L	0.11				U	0.06
PCB-182	Hepta		26	15	45	C,L	7	2	1.6	2.5	C,L	0.49	1.4	1.2	1.7	C	0.34
PCB-183	Hepta		11	6.5	19	L	7	1.1	0.85	1.3	L	0.49	0.81	0.67	0.99		0.34
PCB-184	Hepta	PRC															
PCB-185	Hepta		2.8	1.6	4.8	J,L	7				U L	0.1				U	0.059
PCB-186	Hepta					U L	0.82				U L	0.063				U	0.034
PCB-187	Hepta					C182					C182					C182	
PCB-188	Hepta					U L	0.94				U L	0.065				U	0.036
PCB-189	Hepta					U L	0.67				U L	0.059				U	0.028
PCB-190	Hepta		3.6	2	6.5	J,L	7.4	0.31	0.24	0.39	J,L	0.44				U	0.037
PCB-191	Hepta					U L	0.81				U L	0.073				U	0.038
PCB-192	Hepta	PRC															
PCB-193	Hepta		4.8	2.7	8.6	J,L	7.4	0.24	0.19	0.31	J,L	0.44				U	0.038
PCB-194	Octa		7.6	3.5	17	J,L	9.9	0.23	0.17	0.33	J,L	0.27	0.1	0.077	0.14	J,L	0.13
PCB-195	Octa		2.7	1.3	5.7	J,L	9.4	0.12	0.087	0.16	J,L	0.3	0.05	0.038	0.067	J,L	0.15
PCB-196	Octa		9.3	4.4	20	C,J,L	9.4	0.31	0.23	0.43	C,L	0.3	0.19	0.14	0.25	C,L	0.15
PCB-197	Octa		3.2	1.4	7	L	10				U B,L	0.26	0.024	0.018	0.033	L	0.12
PCB-198	Octa					U L	1.4				U L	0.071				U L	0.021
PCB-199	Octa		7.1	3.2	16	J,L	10	0.27	0.19	0.39	L	0.26	0.13	0.093	0.17	L	0.12
PCB-200	Octa					U L	1.1				U L	0.045				U L	0.013
PCB-201	Octa					U L	1.1				U L	0.053				U L	0.016
PCB-202	Octa					U L	1.1				U L	0.048	0.05	0.037	0.068	J,L	0.12
PCB-203	Octa					C196					C196					C196	
PCB-204	Octa	PRC															
PCB-205	Octa					U L	0.96				U L	0.052				U L	0.015
PCB-206	Nona																

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR+AC-CB-SSWI				LDW-Y2-SC-ENR+AC-CC-SSWI				LDW-Y2-SC-ENR-CC-SSWI						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.21				U L	2.5				U	0.53
PCB-110	Penta		12	11	13						L	9.9	36	32	41		2.6
PCB-111	Penta		0.28	0.26	0.3	C,J	1	3.1	2.4	3.9	C,J,L	9.7	0.8	0.71	0.91	C,J	2.4
PCB-112	Penta					C083					C083					C083	
PCB-113	Penta					U	0.22				U L	2.6				U	0.55
PCB-114	Penta		0.22	0.2	0.23	J	0.91	2.5	2	3.3	J,L	9.5	0.56	0.49	0.64	J	2.1
PCB-115	Penta					C111					C111					C111	
PCB-116	Penta					C085					C085					C085	
PCB-117	Penta					C087					C087					C087	
PCB-118	Penta					C106					C106					C106	
PCB-119	Penta		0.45	0.42	0.49	J	1.2	4.6	3.7	5.8	J,L	9.9	1.5	1.3	1.7	J	2.6
PCB-120	Penta					U	0.15				U L	2.2				U	0.39
PCB-121	Penta	PRC															
PCB-122	Penta					U	0.14				U L	1.4				U	0.31
PCB-123	Penta		0.21	0.2	0.22	J	0.91	2.8	2.2	3.6	J,L	9.5	0.56	0.49	0.64	J	2.1
PCB-124	Penta		0.39	0.36	0.42	J	0.91	4.5	3.5	5.7	J,L	9.5	1	0.91	1.2	J	2.1
PCB-125	Penta					C087					C087					C087	
PCB-126	Penta					U	0.12				U L	1.6				U	0.29
PCB-127	Penta					U	0.11				U L	1.4				U	0.25
PCB-128	Hexa		0.44	0.41	0.47	C	0.41	9.8	7.1	13	C,L	8.5	1.4	1.2	1.6	C	1.2
PCB-129	Hexa		0.23	0.21	0.25	J	0.46	4.5	3.3	6.1	J,L	8.6	0.56	0.48	0.64	J	1.3
PCB-130	Hexa		0.22	0.21	0.24	J	0.46	5.8	4.2	7.8	J,L	8.6	0.87	0.76	1	J	1.3
PCB-131	Hexa		0.17	0.16	0.18	C,J	0.51	4.1	3	5.4	C,J,L	8.7	0.61	0.53	0.7	C,J	1.4
PCB-132	Hexa		1.3	1.3	1.4	C	0.51	32	24	43	C,L	8.7	5.2	4.5	5.9	C	1.4
PCB-133	Hexa					C131					C131					C131	
PCB-134	Hexa		0.39	0.36	0.41	C,J	0.57	8.9	6.7	12	C,L	8.8	1.4	1.3	1.6	C,J	1.5
PCB-135	Hexa		0.83	0.78	0.89		0.57	18	14	24	L	8.8	3.3	2.9	3.8		1.5
PCB-136	Hexa		0.93	0.87	1		0.47	20	14	27	L	8.6	3.3	2.9	3.8		1.3
PCB-137	Hexa		0.2	0.19	0.22	J	0.46	4.2	3.1	5.7	J,L	8.6	0.62	0.54	0.72	J	1.3
PCB-138	Hexa		3.4	3.2	3.7	C	0.46	87	64	120	C,L	8.6	12	10	14	C	1.3
PCB-139	Hexa		5.4	5.1	5.8	C	0.57	97	73	130	C,L	8.8	18	16	21	C	1.5
PCB-140	Hexa		0.11	0.11	0.12	J	0.57				U L	1.6				U	0.29
PCB-141	Hexa		0.71	0.66	0.76		0.46	17	13	23	L	8.6	2.5	2.2	2.9		1.3
PCB-142	Hexa	PRC															
PCB-143	Hexa					C134					C134					C134	
PCB-144	Hexa		0.37	0.35	0.4	J	0.57	7.7	5.8	10	J,L	8.8	1.2	1.1	1.4	J	1.5
PCB-145	Hexa					U	0.045				U L	0.96				U	0.094
PCB-146	Hexa		0.86	0.8	0.92	C	0.46	26	19	35	C,L	8.6	3.4	3	4	C	1.3
PCB-147	Hexa		0.2	0.18	0.21	J	0.57	2.1	1.6	2.8	J,L	8.8	0.53	0.47	0.61	J	1.5
PCB-148	Hexa					U	0.083				U L	1.5				U	0.16
PCB-149	Hexa					C139					C139					C139	
PCB-150	Hexa					U	0.045				U L	0.95				U	0.092
PCB-151	Hexa		1.7	1.6	1.8		0.57	30	23	40	L	8.8	5.9	5.2	6.8		1.5
PCB-152	Hexa					U	0.05				U L	1.1				U	0.1
PCB-153	Hexa		4	3.7	4.3		0.46	92	68	130	L	8.6	14	12	16		1.3
PCB-154	Hexa		0.17	0.16	0.19	J	0.57	3.5	2.6	4.6	J,L	8.8	0.56	0.5	0.65	J	1.5
PCB-155	Hexa	PRC															
PCB-156	Hexa		0.17	0.16	0.18	J	0.37	5.9	4.2	8.2	J,L	8.3	0.72	0.62	0.84	J	1.1
PCB-157	Hexa		0.094	0.087	0.1	J	0.37	2.5	1.8	3.5	J,L	8.3				U	0.19
PCB-158	Hexa		0.36	0.33	0.38	C,J	0.46	9.1	6.7	12	C,L	8.6	1.3	1.1	1.5	C	1.3
PCB-159	Hexa		0.088	0.082	0.095	J	0.37	2.5	1.8	3.5	J,L	8.3	0.32	0.28	0.37	J	1.1
PCB-160	Hexa					C158					C158					C158	
PCB-161	Hexa					C132					C132					C132	
PCB-162	Hexa					C128					C128					C128	
PCB-163	Hexa					C138					C138					C138	
PCB-164	Hexa					C138					C138					C138	
PCB-165	Hexa					C146					C146					C146	
PCB-166	Hexa					U	0.071				U L	1.3				U	0.21
PCB-167	Hexa		0.093	0.086	0.1	J	0.37	2.9	2.1	4.1	J,L	8.3	0.35	0.3	0.41	J	1.1
PCB-168	Hexa					U	0.066				U L	1.2				U	0.19
PCB-169	Hexa					U	0.038				U L	1.2				U	0.12
PCB-170	Hepta		0.2	0.18	0.22		0.18	9.8	6.4	15	L	7.6	0.67	0.55	0.82	L	0.62
PCB-171	Hepta		0.086	0.079	0.095	J	0.22	4.1	2.7	6.1	J,L	7.8	0.3	0.25	0.36	J	0.72
PCB-172	Hepta		0.026	0.023	0.028		0.18	0.85	0.55	1.3	L	7.6	0.029	0.024	0.035	L	0.62
PCB-173	Hepta					U	0.041				U L	1.5				U	0.12
PCB-174	Hepta		0.36	0.33	0.39		0.22	15	10	23	L	7.8	1.3	1.1	1.6		0.72
PCB-175	Hepta					U	0.036				U L	1.3				U	0.11
PCB-176	Hepta		0.073	0.067	0.081	J	0.18	2.7	1.7	4.3	J,L	7.5	0.24	0.19	0.29	J,L	0.6
PCB-177	Hepta		0.23	0.21	0.25		0.22	9.7	6.4	15	L	7.8	0.78	0.65	0.93		0.72
PCB-178	Hepta		0.11	0.1	0.13	J	0.22	4.8	3.2	7.2	J,L	7.8	0.4	0.34	0.48	J	0.72
PCB-179	Hepta		0.17	0.16	0.19	J	0.18	8.1	5.2	13	L	7.5	0.73	0.6	0.9	L	0.6
PCB-180	Hepta		0.52	0.47	0.58		0.18	27	17	42	L	7.6	2	1.7	2.5	L	0.62
PCB-181	Hepta					U	0.037				U L	1.3				U	0.11
PCB-182	Hepta		0.49	0.45	0.54	C	0.22	20	13	30	C,L	7.8	1.8	1.5	2.2	C	0.72
PCB-183	Hepta		0.31	0.29	0.34		0.22	11	7	16	L	7.8	1	0.84	1.2		0.72
PCB-184	Hepta	PRC															
PCB-185	Hepta					U	0.036				U L	1.3				U	0.11
PCB-186	Hepta					U	0.02				U L	0.88				U L	0.065
PCB-187	Hepta					C182					C182					C182	
PCB-188	Hepta					U	0.023				U L	1.1				U L	0.073
PCB-189	Hepta					U	0.015				U L	0.71				U L	0.052
PCB-190	Hepta					U	0.022				U L	0.94				U L	0.071
PCB-191	Hepta					U	0.023				U L	0.96				U L	0.072
PCB-192	Hepta	PRC															
PCB-193	Hepta					U	0.023				U L	0.95				U L	0.072
PCB-194	Octa		0.028	0.024	0.032	J	0.073	2.7	1.5	4.9	J,L	6.7	0.15	0.11	0.19	J,L	0.31
PCB-195	Octa					U	0.017				U L	1.5	0.073	0.057	0.095	J,L	0.35
PCB-196	Octa		0.056	0.049	0.064	C,J	0.086	4.5	2.6	7.9	C,J,L	6.9	0.27	0.21	0.35	C,J,L	0.35
PCB-197	Octa		0.0042	0.0037	0.0049	J	0.067	3.5	1.9	6.4	L	6.6				U L	0.029
PCB-198	Octa					U	0.013				U L	1				U L	0.047
PCB-199	Octa		0.04	0.035	0.046	J	0.067	4.6	2.5	8.5	J,L	6.6	0.17	0.13	0.23	J,L	0.29
PCB-200	Octa					U	0.0079				U L	0.77				U L	0.03
PCB-201	Octa					U	0.01				U L	0.79	0.036	0.028	0.047	L	0.35
PCB-202	Octa					U	0.0085				U L	0.83				U L	0.032
PCB-203	Octa					C196					C196					C196	
PCB-204	Octa	PRC															
PCB-205	Octa					U	0.011				U L	1				U L	0.023
PCB-206	Nona					U	0.0076				U L	1.3	0.032				

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-SC-ENR-CD-SSWI				LDW-Y2-SC-ENR-CE-SSWI					LDW-Y2-IN-ENR+AC-CA-SSWI					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.25				U L	0.47				U	0.2
PCB-110	Penta		43	38	48		1.2	78	64	95	L	2.1	30	28	33		0.93
PCB-111	Penta		0.66	0.59	0.74	C,J	1.1	1.7	1.4	2.1	C,J,L	1.9	0.56	0.52	0.61	C,J	0.86
PCB-112	Penta					C083					C083					C083	
PCB-113	Penta					U	0.26				U L	0.49				U	0.19
PCB-114	Penta		0.51	0.45	0.57	J	0.97	1.3	1.1	1.7	J,L	1.8	0.39	0.36	0.43	J	0.8
PCB-115	Penta					C111					C111					C111	
PCB-116	Penta					C085					C085					C085	
PCB-117	Penta					C087					C087					C087	
PCB-118	Penta					C106					C106					C106	
PCB-119	Penta		1.5	1.3	1.7		1.2	2.5	2.1	3.1	L	2.1	0.85	0.79	0.93	J	0.93
PCB-120	Penta					U	0.19				U L	0.37				U	0.16
PCB-121	Penta	PRC															
PCB-122	Penta		0.36	0.32	0.41	J	0.97				U L	0.37	0.22	0.2	0.23	J	0.8
PCB-123	Penta		0.57	0.51	0.64	J	0.97	1.1	0.86	1.3	J,L	1.8	0.37	0.34	0.4	J	0.8
PCB-124	Penta		1.3	1.1	1.5		0.97	2.3	1.9	2.8	L	1.8	0.74	0.68	0.8	J	0.8
PCB-125	Penta					C087					C087					C087	
PCB-126	Penta					U	0.16				U L	0.38				U	0.12
PCB-127	Penta					U	0.14				U L	0.32				U	0.1
PCB-128	Hexa		2	1.8	2.3	C,L	0.55	4	3.1	5.1	C,L	1.1	1.9	1.7	2	C,L	0.53
PCB-129	Hexa		0.73	0.65	0.83	L	0.6	1.6	1.2	2	L	1.2	0.32	0.3	0.35	J,L	0.56
PCB-130	Hexa		1.2	1.1	1.4	L	0.6	2.2	1.7	2.8	L	1.2	0.95	0.87	1	L	0.56
PCB-131	Hexa		0.55	0.49	0.62	C,J,L	0.64	1.2	0.95	1.5	C,J,L	1.3	0.38	0.35	0.41	C,J	0.59
PCB-132	Hexa		6.7	6	7.6	C,L	0.64	13	10	17	C,L	1.3	4.1	3.8	4.5	C	0.59
PCB-133	Hexa					C131					C131					C131	
PCB-134	Hexa		1.7	1.5	1.9	C,L	0.69	3.3	2.7	4.2	C,L	1.3	1.1	1.1	1.2	C	0.63
PCB-135	Hexa		4.3	3.8	4.9	L	0.69	8.8	7	11	L	1.3	2.6	2.4	2.8		0.63
PCB-136	Hexa		4.4	3.9	5	L	0.6	9.2	7.2	12	L	1.2	2.4	2.2	2.6	L	0.57
PCB-137	Hexa		0.53	0.47	0.61	J,L	0.6	1.6	1.3	2	L	1.2	0.78	0.72	0.85	L	0.56
PCB-138	Hexa		18	15	20	C,L	0.6	35	28	45	C,L	1.2	11	10	12	C,L	0.56
PCB-139	Hexa		24	22	28	C,L	0.69	46	37	58	C,L	1.3	12	11	13	C	0.63
PCB-140	Hexa		0.28	0.25	0.32	J,L	0.69	0.77	0.62	0.97	J,L	1.3	0.26	0.24	0.29	J	0.63
PCB-141	Hexa		3.3	2.9	3.8	L	0.6	6.9	5.4	8.7	L	1.2	2.2	2	2.4	L	0.56
PCB-142	Hexa	PRC															
PCB-143	Hexa					C134					C134					C134	
PCB-144	Hexa		1.7	1.5	1.9	L	0.69	3.2	2.5	4	L	1.3	0.66	0.61	0.71		0.63
PCB-145	Hexa					U L	0.057				U L	0.092				U L	0.044
PCB-146	Hexa		3.7	3.2	4.2	C,L	0.6	8.3	6.6	11	C,L	1.2	2.7	2.4	2.9	C,L	0.56
PCB-147	Hexa		0.62	0.55	0.7	J,L	0.69	1.1	0.91	1.4	J,L	1.3	0.59	0.54	0.64	J	0.63
PCB-148	Hexa					U L	0.098				U L	0.16				U	0.073
PCB-149	Hexa					C139					C139					C139	
PCB-150	Hexa					U L	0.056				U L	0.09				U L	0.041
PCB-151	Hexa		7.3	6.5	8.3	L	0.69	15	12	19	L	1.3	4.4	4	4.7		0.63
PCB-152	Hexa					U L	0.063				U L	0.1				U L	0.042
PCB-153	Hexa		18	16	21	L	0.6	36	29	46	L	1.2	11	10	12	L	0.56
PCB-154	Hexa		0.55	0.49	0.62	L	0.69	1.1	0.88	1.4	L	1.3	0.33	0.3	0.36		0.63
PCB-155	Hexa	PRC															
PCB-156	Hexa		0.93	0.81	1.1	L	0.5	2.1	1.6	2.7	L	1	0.77	0.7	0.84	L	0.5
PCB-157	Hexa		0.21	0.19	0.25	J,L	0.5	0.55	0.42	0.71	J,L	1	0.29	0.26	0.32	J,L	0.5
PCB-158	Hexa		1.7	1.5	1.9	C,L	0.6	3.4	2.7	4.3	C,L	1.2	1.4	1.2	1.5	C,L	0.56
PCB-159	Hexa		0.3	0.26	0.34	J,L	0.5	0.68	0.53	0.88	J,L	1	0.19	0.17	0.21	J,L	0.5
PCB-160	Hexa					C158					C158					C158	
PCB-161	Hexa					C132					C132					C132	
PCB-162	Hexa					C128					C128					C128	
PCB-163	Hexa					C138					C138					C138	
PCB-164	Hexa					C138					C138					C138	
PCB-165	Hexa					C146					C146					C146	
PCB-166	Hexa					U L	0.12				U L	0.23				U L	0.084
PCB-167	Hexa		0.44	0.38	0.5	J,L	0.5	0.96	0.74	1.2	J,L	1	0.36	0.33	0.39	J,L	0.5
PCB-168	Hexa					U L	0.11				U L	0.22				U L	0.081
PCB-169	Hexa					U L	0.087				U L	0.18				U L	0.071
PCB-170	Hepta		1.1	0.92	1.3	L	0.31	2.6	1.9	3.6	L	0.68	0.86	0.76	0.97	L	0.36
PCB-171	Hepta		0.51	0.44	0.6	L	0.35	1.1	0.84	1.5	L	0.76	0.36	0.32	0.41	J,L	0.39
PCB-172	Hepta		0.55	0.46	0.66	L	0.31	0.97	0.71	1.3	L	0.68	0.34	0.3	0.38	L	0.36
PCB-173	Hepta					U L	0.069				U L	0.15				U L	0.067
PCB-174	Hepta		2	1.7	2.4	L	0.35	4.1	3.1	5.6	L	0.76	1.2	1.1	1.4	L	0.39
PCB-175	Hepta					U L	0.06				U L	0.13	0.12	0.11	0.13	J,L	0.39
PCB-176	Hepta		0.32	0.27	0.39	L	0.3	0.77	0.55	1.1	L	0.67	0.2	0.18	0.23	J,L	0.35
PCB-177	Hepta		1.1	0.94	1.3	L	0.35	2.4	1.8	3.3	L	0.76	0.79	0.7	0.88	L	0.39
PCB-178	Hepta		0.52	0.44	0.61	L	0.35	1.2	0.87	1.6	L	0.76	0.37	0.33	0.42	J,L	0.39
PCB-179	Hepta		1	0.86	1.2	L	0.3	2.3	1.7	3.2	L	0.67	0.69	0.61	0.78	L	0.35
PCB-180	Hepta		0.31	0.26	0.36	J,L	0.31	0.7	0.51	0.96	L	0.68	2.5	2.2	2.8	L	0.36
PCB-181	Hepta					U L	0.062				U L	0.13	0.15	0.13	0.17	J,L	0.39
PCB-182	Hepta		2.6	2.2	3.1	C,L	0.35	5.7	4.2	7.7	C,L	0.76	1.7	1.5	1.9	C,L	0.39
PCB-183	Hepta		1.4	1.2	1.6	L	0.35	3	2.2	4	L	0.76	0.9	0.8	1	L	0.39
PCB-184	Hepta	PRC															
PCB-185	Hepta					U L	0.061				U L	0.13	0.22	0.19	0.24	J,L	0.39
PCB-186	Hepta					U L	0.036				U L	0.079	0.11	0.094	0.12	J,L	0.35
PCB-187	Hepta					C182					C182					C182	
PCB-188	Hepta		0.097	0.081	0.12	J,L	0.3	0.27	0.19	0.37	J,L	0.67	0.092	0.082	0.1	J,L	0.35
PCB-189	Hepta					U L	0.029				U L	0.057				U L	0.029
PCB-190	Hepta					U L	0.04				U L	0.087	0.23	0.2	0.25	J,L	0.36
PCB-191	Hepta					U L	0.041				U L	0.088				U L	0.042
PCB-192	Hepta	PRC															
PCB-193	Hepta					U L	0.04				U L	0.088	0.21	0.18	0.23	J,L	0.36
PCB-194	Octa		0.2	0.16	0.26	L	0.16	0.54	0.36	0.83	L	0.4	0.17	0.15	0.2	J,L	0.23
PCB-195	Octa		0.12	0.092	0.15	J,L	0.18	0.24	0.16	0.35	J,L	0.44	0.091	0.077	0.11	J,L	0.25
PCB-196	Octa		0.31	0.25	0.39	C,L	0.18	0.86	0.58	1.3	C,L	0.44	0.3	0.26	0.36	C,L	0.25
PCB-197	Octa		0.019	0.015	0.024	L	0.15	0.092	0.06	0.14	L	0.38	0.063	0.053	0.074	L	0.22
PCB-198	Octa					U L	0.019				U L	0.058				U L	0.033
PCB-199	Octa		0.24	0.18	0.3	L	0.15	0.75	0.49	1.2	L	0.38	0.32	0.27	0.38	L	0.22
PCB-200	Octa					U L	0.013				U L	0.039				U L	0.021
PCB-201	Octa					U L	0.015				U L	0.044				U L	0.024
PCB-202	Octa		0.083	0.065	0.11	J,L	0.15	0.2	0.13	0.31	J,L	0.38	0.094	0.079	0.11	J,L	0.22
PCB-203	Octa					C196			</								

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR+AC-CB-SSWI				LDW-Y2-IN-ENR+AC-CC-SSWI					LDW-Y2-IN-ENR-CA-SSWI					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.32				U	0.22				U	0.24
PCB-110	Penta		49	41	59	L	1.7	36	32	41		1.1	51	41	63		1.2
PCB-111	Penta		0.9	0.75	1.1	C,J,L	1.7	0.61	0.53	0.69	C,J	1	0.92	0.75	1.1	C,J	1.1
PCB-112	Penta					C083					C083					C083	
PCB-113	Penta					U L	0.3				U	0.21				U	0.23
PCB-114	Penta		0.64	0.53	0.77	J,L	1.6	0.3	0.27	0.35	J	0.94	0.56	0.46	0.7	J	1
PCB-115	Penta					C111					C111					C111	
PCB-116	Penta					C085					C085					C085	
PCB-117	Penta					C087					C087					C087	
PCB-118	Penta					C106					C106					C106	
PCB-119	Penta		1.4	1.1	1.6	J,L	1.7	1.1	0.95	1.2		1.1	1.5	1.3	1.9		1.2
PCB-120	Penta					U L	0.28				U	0.19				U	0.21
PCB-121	Penta	PRC															
PCB-122	Penta		0.43	0.36	0.52	J,L	1.6	0.3	0.26	0.34	J	0.94	0.33	0.27	0.4	J	1
PCB-123	Penta		0.67	0.56	0.81	J,L	1.6	0.35	0.31	0.4	J	0.94	0.46	0.37	0.57	J	1
PCB-124	Penta		1.1	0.9	1.3	J,L	1.6	0.87	0.77	1	J	0.94	1.1	0.88	1.3		1
PCB-125	Penta					C087					C087					C087	
PCB-126	Penta					U L	0.22				U L	0.15				U L	0.18
PCB-127	Penta					U L	0.19				U L	0.13				U L	0.16
PCB-128	Hexa		3.2	2.5	4.2	C,L	1.3	2	1.7	2.3	C,L	0.66	2.7	2.2	3.4	C,L	0.75
PCB-129	Hexa		1.2	0.97	1.6	J,L	1.3	0.83	0.72	0.96	L	0.69	0.95	0.76	1.2	L	0.78
PCB-130	Hexa		1.8	1.4	2.3	L	1.3	1.1	0.94	1.3	L	0.69	1.5	1.2	1.8	L	0.78
PCB-131	Hexa		0.9	0.71	1.1	C,J,L	1.3	0.56	0.48	0.64	C,J,L	0.73	0.77	0.62	0.96	C,J,L	0.82
PCB-132	Hexa		7.2	5.8	9.1	C,L	1.3	5.5	4.8	6.3	C,L	0.73	6.1	4.9	7.6	C,L	0.82
PCB-133	Hexa					C131					C131					C131	
PCB-134	Hexa		2	1.6	2.6	C,L	1.4	1.3	1.1	1.5	C,L	0.76	1.8	1.5	2.3	C,L	0.85
PCB-135	Hexa		4	3.2	5	L	1.4	2.9	2.5	3.3	L	0.76	3.7	3	4.6	L	0.85
PCB-136	Hexa		4.7	3.7	6	L	1.3	3.2	2.7	3.7	L	0.7	3.4	2.7	4.3	L	0.79
PCB-137	Hexa		1.4	1.1	1.8	L	1.3	0.94	0.81	1.1	L	0.69	1.2	0.93	1.5	L	0.78
PCB-138	Hexa		21	16	27	C,L	1.3	13	12	16	C,L	0.69	18	14	23	C,L	0.78
PCB-139	Hexa		21	17	27	C,L	1.4	13	12	15	C,L	0.76	17	14	21	C,L	0.85
PCB-140	Hexa		0.4	0.32	0.5	J,L	1.4	0.25	0.22	0.28	J,L	0.76				U L	0.14
PCB-141	Hexa		3.6	2.8	4.6	L	1.3	2.6	2.2	3	L	0.69	3.4	2.7	4.3	L	0.78
PCB-142	Hexa	PRC															
PCB-143	Hexa					C134					C134					C134	
PCB-144	Hexa		1.4	1.1	1.8	L	1.4	0.97	0.85	1.1	L	0.76	1.1	0.91	1.4	L	0.85
PCB-145	Hexa					U L	0.12				U L	0.063				U L	0.056
PCB-146	Hexa		4.5	3.5	5.7	C,L	1.3	2.9	2.5	3.4	C,L	0.69	4.5	3.6	5.6	C,L	0.78
PCB-147	Hexa		0.88	0.71	1.1	J,L	1.4	0.62	0.54	0.71	J,L	0.76	0.63	0.51	0.79	J,L	0.85
PCB-148	Hexa					U L	0.2				U L	0.1				U L	0.092
PCB-149	Hexa					C139					C139					C139	
PCB-150	Hexa					U L	0.12				U L	0.059				U L	0.053
PCB-151	Hexa		6.4	5.1	8	L	1.4	4.9	4.3	5.6	L	0.76	6.2	5	7.7	L	0.85
PCB-152	Hexa					U L	0.12				U L	0.06				U L	0.053
PCB-153	Hexa		18	14	23	L	1.3	12	11	14	L	0.69	15	12	19	L	0.78
PCB-154	Hexa		0.52	0.42	0.65	J,L	1.4	0.44	0.38	0.51	L	0.76	0.58	0.47	0.72	L	0.85
PCB-155	Hexa	PRC															
PCB-156	Hexa		1.5	1.1	1.9	L	1.2	0.85	0.72	0.99	L	0.63	1.2	0.93	1.5	L	0.71
PCB-157	Hexa		0.56	0.43	0.74	J,L	1.2	0.29	0.25	0.34	J,L	0.63	0.38	0.3	0.49	J,L	0.71
PCB-158	Hexa		2.5	2	3.2	C,L	1.3	1.4	1.2	1.6	C,L	0.69	1.9	1.6	2.4	C,L	0.78
PCB-159	Hexa		0.5	0.38	0.65	J,L	1.2	0.23	0.2	0.27	J,L	0.63	0.35	0.27	0.44	J,L	0.71
PCB-160	Hexa					C158					C158					C158	
PCB-161	Hexa					C132					C132					C132	
PCB-162	Hexa					C128					C128					C128	
PCB-163	Hexa					C138					C138					C138	
PCB-164	Hexa					C138					C138					C138	
PCB-165	Hexa					C146					C146					C146	
PCB-166	Hexa					U L	0.17				U L	0.088				U L	0.11
PCB-167	Hexa		0.85	0.65	1.1	J,L	1.2	0.46	0.4	0.54	J,L	0.63	0.55	0.43	0.7	J,L	0.71
PCB-168	Hexa					U L	0.16				U L	0.084				U L	0.11
PCB-169	Hexa					U L	0.14				U L	0.072				U L	0.094
PCB-170	Hepta		2	1.4	2.9	L	1	1.1	0.89	1.3	L	0.47	1.4	1	1.9	L	0.54
PCB-171	Hepta		0.81	0.58	1.1	J,L	1.1	0.45	0.38	0.55	J,L	0.51	0.56	0.42	0.75	J,L	0.58
PCB-172	Hepta		1.4	0.96	2	L	1	0.47	0.39	0.58	L	0.47	0.41	0.3	0.56	L	0.54
PCB-173	Hepta					U L	0.21				U L	0.098				U L	0.096
PCB-174	Hepta		2.5	1.8	3.5	L	1.1	1.5	1.3	1.9	L	0.51	1.6	1.2	2.2	L	0.58
PCB-175	Hepta					U L	0.19				U L	0.088				U L	0.086
PCB-176	Hepta		0.42	0.29	0.61	J,L	1	0.26	0.21	0.32	J,L	0.46	0.33	0.24	0.45	J,L	0.53
PCB-177	Hepta		1.7	1.2	2.4	L	1.1	1	0.86	1.2	L	0.51	1.1	0.85	1.5	L	0.58
PCB-178	Hepta		0.86	0.62	1.2	J,L	1.1	0.52	0.43	0.62	L	0.51	0.56	0.42	0.75	J,L	0.58
PCB-179	Hepta		1.5	1.1	2.2	L	1	0.85	0.69	1	L	0.46	1	0.74	1.4	L	0.53
PCB-180	Hepta		6	4.2	8.7	L	1	3.2	2.6	3.9	L	0.47	4	2.9	5.5	L	0.54
PCB-181	Hepta		0.38	0.27	0.53	J,L	1.1				U L	0.088	0.32	0.24	0.43	J,L	0.58
PCB-182	Hepta		3.9	2.8	5.5	C,L	1.1	2.2	1.9	2.7	C,L	0.51	2.7	2	3.6	C,L	0.58
PCB-183	Hepta		2	1.4	2.8	L	1.1	1.1	0.89	1.3	L	0.51	1.2	0.93	1.7	L	0.58
PCB-184	Hepta	PRC															
PCB-185	Hepta		0.47	0.34	0.66	J,L	1.1	0.19	0.16	0.23	J,L	0.51	0.32	0.24	0.43	J,L	0.58
PCB-186	Hepta		0.32	0.22	0.47	J,L	1	0.11	0.093	0.14	J,L	0.46	0.14	0.1	0.2	J,L	0.53
PCB-187	Hepta					C182					C182					C182	
PCB-188	Hepta		0.32	0.22	0.46	J,L	1	0.15	0.12	0.18	J,L	0.46	0.24	0.17	0.32	J,L	0.53
PCB-189	Hepta					U L	0.093				U L	0.043				U L	0.044
PCB-190	Hepta		0.55	0.38	0.79	J,L	1	0.28	0.23	0.34	J,L	0.47	0.28	0.21	0.39	J,L	0.54
PCB-191	Hepta					U L	0.14				U L	0.063				U L	0.062
PCB-192	Hepta	PRC															
PCB-193	Hepta		0.54	0.38	0.78	J,L	1	0.24	0.2	0.29	J,L	0.47	0.36	0.26	0.49	J,L	0.54
PCB-194	Octa		0.51	0.31	0.85	J,L	0.8	0.24	0.18	0.32	J,L	0.33	0.27	0.18	0.43	J,L	0.38
PCB-195	Octa		0.22	0.14	0.36	J,L	0.83	0.14	0.1	0.18	J,L	0.35	0.14	0.094	0.21	J,L	0.4
PCB-196	Octa		0.85	0.53	1.4	C,L	0.83	0.38	0.29	0.49	C,L	0.35	0.39	0.26	0.58	C,J,L	0.4
PCB-197	Octa		0.48	0.29	0.81	L	0.78				U B,L	0.32	0.078	0.05	0.12	L	0.37
PCB-198	Octa					U L	0.088				U L	0.042				U L	0.054
PCB-199	Octa		0.81	0.49	1.4	L	0.78	0.4	0.3	0.53	L	0.32	0.46	0.3	0.72	L	0.37
PCB-200	Octa					U L	0.059				U L	0.027				U L	0.035
PCB-201	Octa					U L	0.065				U L	0.031				U L	0.04
PCB-202	Octa		0.21	0.12	0.35	J,L	0.78	0.13	0.1	0.18	J,L	0.32	0.15	0.094	0.23	J,L	0

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y2-IN-ENR-CB-SSWI				LDW-Y2-IN-ENR-CE-SSWI						
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.46					U	0.21
PCB-110	Penta		65	54	79	L		2	40	36	44		1
PCB-111	Penta		1.3	1.1	1.6	C,J L	1.9	0.73	0.66	0.82		C,J	0.93
PCB-112	Penta					C083						C083	
PCB-113	Penta					U L	0.52					U	0.24
PCB-114	Penta		0.87	0.72	1	J L	1.9	0.56	0.5	0.62		J	0.85
PCB-115	Penta					C111						C111	
PCB-116	Penta					C085						C085	
PCB-117	Penta					C087						C087	
PCB-118	Penta					C106						C106	
PCB-119	Penta		2.1	1.7	2.5	L	2	1.2	1.1	1.3			1
PCB-120	Penta					U L	0.42					U	0.17
PCB-121	Penta	PRC											
PCB-122	Penta					U L	0.33	0.31	0.28	0.35		J	0.85
PCB-123	Penta		0.85	0.71	1	J L	1.9	0.44	0.4	0.49		J	0.85
PCB-124	Penta		2	1.7	2.4	L	1.9	1.1	0.95	1.2			0.85
PCB-125	Penta					C087						C087	
PCB-126	Penta					U L	0.4					U	0.16
PCB-127	Penta					U L	0.33					U	0.14
PCB-128	Hexa		6.1	4.8	7.7	C L	1.7	1.9	1.7	2.2		C	0.52
PCB-129	Hexa		2	1.6	2.5	L	1.7	0.8	0.71	0.9			0.56
PCB-130	Hexa		3.3	2.6	4.1	L	1.7	1.1	0.98	1.2			0.56
PCB-131	Hexa		1.5	1.2	1.8	C,J L	1.7	0.54	0.48	0.6		C,J	0.6
PCB-132	Hexa		13	10	16	C L	1.7	4.8	4.3	5.4		C	0.6
PCB-133	Hexa					C131						C131	
PCB-134	Hexa		3.3	2.7	4.1	C L	1.8	1.4	1.3	1.6		C	0.64
PCB-135	Hexa		7.5	6.1	9.3	L	1.8	3	2.7	3.4			0.64
PCB-136	Hexa		6.9	5.5	8.6	L	1.7	2.5	2.2	2.8			0.57
PCB-137	Hexa		2	1.6	2.6	L	1.7	0.81	0.72	0.92			0.56
PCB-138	Hexa		34	27	43	C L	1.7	13	12	15		C	0.56
PCB-139	Hexa		37	30	46	C L	1.8	14	13	16		C	0.64
PCB-140	Hexa					U L	0.39					U	0.12
PCB-141	Hexa		6.5	5.2	8.2	L	1.7	2.3	2.1	2.6			0.56
PCB-142	Hexa	PRC											
PCB-143	Hexa					C134						C134	
PCB-144	Hexa		2.2	1.8	2.7	L	1.8	0.88	0.79	0.99			0.64
PCB-145	Hexa					U L	0.15					U	0.047
PCB-146	Hexa		9.9	7.9	12	C L	1.7	3	2.7	3.4		C	0.56
PCB-147	Hexa		1.5	1.3	1.9	J L	1.8	0.61	0.54	0.68		J	0.64
PCB-148	Hexa					U L	0.22					U	0.074
PCB-149	Hexa					C139						C139	
PCB-150	Hexa					U L	0.15					U	0.048
PCB-151	Hexa		12	9.4	14	L	1.8	4.2	3.8	4.7			0.64
PCB-152	Hexa					U L	0.16					U	0.049
PCB-153	Hexa		38	30	47	L	1.7	13	11	14			0.56
PCB-154	Hexa		0.95	0.77	1.2	L	1.8	0.35	0.32	0.4		J	0.64
PCB-155	Hexa	PRC											
PCB-156	Hexa		2.5	2	3.2	L	1.7	0.8	0.7	0.91			0.49
PCB-157	Hexa		0.85	0.66	1.1	J L	1.7	0.27	0.24	0.31		J	0.49
PCB-158	Hexa		3.9	3.1	4.9	C L	1.7	1.4	1.2	1.6		C	0.56
PCB-159	Hexa		0.71	0.55	0.91	J L	1.7	0.22	0.19	0.25		J	0.49
PCB-160	Hexa					C158						C158	
PCB-161	Hexa					C132						C132	
PCB-162	Hexa					C128						C128	
PCB-163	Hexa					C138						C138	
PCB-164	Hexa					C138						C138	
PCB-165	Hexa					C146						C146	
PCB-166	Hexa					U L	0.33					U	0.093
PCB-167	Hexa		1.5	1.2	1.9	J L	1.7	0.44	0.39	0.5		J	0.49
PCB-168	Hexa					U L	0.3					U	0.085
PCB-169	Hexa					U L	0.27					U L	0.069
PCB-170	Hepta		3.2	2.3	4.4	L	1.6	0.65	0.55	0.77		L	0.32
PCB-171	Hepta		1.2	0.89	1.7	J L	1.6	0.28	0.24	0.33		J L	0.36
PCB-172	Hepta		1.3	0.94	1.8	L	1.6	0.31	0.26	0.36		L	0.32
PCB-173	Hepta					U L	0.3					U L	0.055
PCB-174	Hepta		4	3	5.5	L	1.6	1.1	0.95	1.3		L	0.36
PCB-175	Hepta					U L	0.26					U L	0.048
PCB-176	Hepta		0.73	0.52	1	J L	1.6	0.16	0.14	0.19		J L	0.31
PCB-177	Hepta		2.8	2	3.8	L	1.6	0.6	0.51	0.7		L	0.36
PCB-178	Hepta		1.5	1.1	2	J L	1.6	0.32	0.28	0.38		J L	0.36
PCB-179	Hepta		2.7	1.9	3.8	L	1.6	0.47	0.4	0.56		L	0.31
PCB-180	Hepta		10	7.2	14	L	1.6	1.7	1.5	2.1		L	0.32
PCB-181	Hepta		0.62	0.46	0.85	J L	1.6					U L	0.046
PCB-182	Hepta		6.1	4.5	8.3	C L	1.6	1.3	1.1	1.5		C L	0.36
PCB-183	Hepta		3	2.2	4.1	L	1.6	0.66	0.56	0.77		L	0.36
PCB-184	Hepta	PRC											
PCB-185	Hepta		0.67	0.49	0.92	J L	1.6					U L	0.05
PCB-186	Hepta		0.52	0.37	0.73	J L	1.6					U L	0.03
PCB-187	Hepta					C182						C182	
PCB-188	Hepta		0.75	0.53	1.1	J L	1.6					U L	0.036
PCB-189	Hepta					U L	0.16					U L	0.024
PCB-190	Hepta		0.77	0.55	1.1	J L	1.6	0.17	0.14	0.2		J L	0.32
PCB-191	Hepta					U L	0.2					U L	0.034
PCB-192	Hepta	PRC											
PCB-193	Hepta		0.71	0.51	1	J L	1.6	0.21	0.17	0.24		J L	0.32
PCB-194	Octa		0.88	0.55	1.4	J L	1.4	0.11	0.088	0.14		J L	0.19
PCB-195	Octa		0.56	0.36	0.86	J L	1.4	0.051	0.041	0.064		J L	0.21
PCB-196	Octa		1.5	0.94	2.3	C L	1.4	0.21	0.17	0.26		C L	0.21
PCB-197	Octa		0.17	0.11	0.27	L	1.4					U B L	0.18
PCB-198	Octa					U L	0.23					U L	0.029
PCB-199	Octa		1.6	0.99	2.6	L	1.4	0.15	0.12	0.19		J L	0.18
PCB-200	Octa					U L	0.14					U L	0.016
PCB-201	Octa					U L	0.15					U L	0.019
PCB-202	Octa		0.53	0.33	0.85	J L	1.4	0.057	0.045	0.073		J L	0.18
PCB-203	Octa					C196						C196	
PCB-204	Octa	PRC											
PCB-205	Octa					U L	0.19					U L	0.017
PCB-206	Nona		0.38	0.22	0.68	J L	1.3	0.026	0.019	0.035		J L	0.12
PCB-207	Nona		0.5	0.27	0.93	L	1.3					U B L	0.11
PCB-208	Nona		0.31	0.17	0.57	J L	1.3					U L	0.0097
PCB-209	Deca		0.79	0.37	1.7	L	1.2	0.0018	0.0012	0.0027		L	0.063
Total Detected PCB Congeners			1400	1100	1700			960	860	1100			

Notes

C: Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter. For example, PCB-20 co-elutes with PCB-21 and PCB-33
 J: Analyte concentration is below calibration range
 L: Percent to steady state less than 20%
 PCB: Polychlorinated biphenyl
 pg/L: picogram per liter
 PRC: Performance Reference Compound
 U: Not detected at the Method Detection Limit (DL) shown in the second column for each sample.
 UB: Cfree concentration after correction for trace PCBs present in the sampler before deployment is less than zero and is not reported as detectable
 CL: confidence level

Certificate of Analysis
Concentrations of Freely-dissolved Polychlorinated Biphenyls (PCBs)
Measured via SPME Passive Samplers

Client: Lower Duwamish Waterway
Group

Project: Enhanced Natural Recovery /
Activated Carbon Pilot Study

Final Report Issued: February 8, 2021

Client Project No: HE1508-01

Study Dates: July 24 to September 25, 2020

Introduction

This report presents the results for 38 SP3™ passive samplers¹ that were exposed to evaluate surface sediment in Lower Duwamish Waterway, Seattle, Washington, USA. As shown in the sample summary table below, 18 of the samplers were deployed *in situ* in the top 10 cm of sediment (“*in situ*”). Six samplers were deployed in sediment cores (Subtidal Plot) in an *ex situ* laboratory study (“*Ex situ*”), 2 samplers in fresh depositional sediment (“*Ex situ (silt)*”) samples in an *ex situ* laboratory study, and 6 samplers in sediment bioaccumulation study columns (“*Ex situ (bioaccum)*”), and 2 samplers exposed to laboratory control water during the *ex situ* laboratory (“*Ex situ (water)*”) and bioaccumulation studies (“*Ex situ (bioaccum water)*”). Four samplers (“Trip Blanks”) were not exposed to sediment.

The *in situ* sediment-exposed samplers were deployed from August 3 to August 9, 2020, and were retrieved between September 16 and September 25, 2020, with individual sampler exposure durations ranging from 44 to 50 days. Samplers that were exposed *ex situ* to Subtidal Plot sediment cores within laboratory mesocosms were deployed on July 24, 2019 and retrieved on September 25, 2020 with an individual sampler exposure duration of 63 days. Samplers exposed to *ex situ (bioaccum)* sediment and laboratory water control blank were deployed on 8/26/2020 and retrieved on 9/23/2020 with an individual sampler exposure duration of 28 days. Samplers exposed to *ex situ silt* were deployed on 8/11/2020 and retrieved on 9/25/2020 with an individual sampler exposure duration of 45 days. The trip blanks and laboratory blank were collected on September 25, 2020.

¹ Each sampler was comprised of 5 to 6 individual SPME fibers, which were composited together to represent a single sample.

Sample Summary

Customer Sample ID	Deployment	Sediment Deployment Depth (cm)	Earliest Sampler Deployment Date	Latest Retrieval Date	Average Sampler Deployment Duration (days)	Analysis
LDW-Y3-SC-ENR+AC-CA-S010	<i>In situ</i>	0 - 10	8/5/2020	9/24/2020	49	PCB Congeners (1668C)
LDW-Y3-SC-ENR+AC-CB-S010	<i>In situ</i>	0 - 10	8/5/2020	9/24/2020	48	PCB Congeners (1668C)
LDW-Y3-SC-ENR+AC-CC-S010	<i>In situ</i>	0 - 10	8/5/2020	9/24/2020	48	PCB Congeners (1668C)
LDW-Y3-SC-ENR+AC-CA-S010-LONG	<i>In situ</i> (Type 1)	0 - 10	8/5/2020	9/24/2020	49	PCB Congeners (1668C)
LDW-Y3-SC-ENR+AC-CB-S010-LONG	<i>In situ</i> (Type 1)	0 - 10	8/5/2020	9/24/2020	48	PCB Congeners (1668C)
LDW-Y3-SC-ENR+AC-CC-S010-LONG	<i>In situ</i> (Type 1)	0 - 10	8/5/2020	9/24/2020	40	PCB Congeners (1668C)
LDW-Y3-SC-ENR+AC-S010-DEP	<i>Ex situ</i> (silt)	0 - 10	8/11/2020	9/25/2020	45	PCB Congeners (1668C)
LDW-Y3-SC-ENR-CA-S010	<i>In situ</i>	0 - 10	8/6/2020	9/24/2020	47	PCB Congeners (1668C)
LDW-Y3-SC-ENR-CC-S010	<i>In situ</i>	0 - 10	8/6/2020	9/23/2020	46	PCB Congeners (1668C)
LDW-Y3-SC-ENR-CD-S010	<i>In situ</i>	0 - 10	8/6/2020	9/24/2020	47	PCB Congeners (1668C)
LDW-Y3-SC-ENR-CA-S010-LONG	<i>In situ</i> (Type 1)	0 - 10	8/6/2020	9/24/2020	47	PCB Congeners (1668C)
LDW-Y3-SC-ENR-CC-S010-LONG	<i>In situ</i> (Type 1)	0 - 10	8/6/2020	9/23/2020	46	PCB Congeners (1668C)
LDW-Y3-SC-ENR-CD-S010-LONG	<i>In situ</i> (Type 1)	0 - 10	8/6/2020	9/24/2020	47	PCB Congeners (1668C)
LDW-Y3-SC-ENR-S010-DEP	<i>Ex situ</i> (silt)	0 - 10	8/11/2020	9/25/2020	45	PCB Congeners (1668C)

Customer Sample ID	Deployment	Sediment Deployment Depth (cm)	Earliest Sampler Deployment Date	Latest Retrieval Date	Average Sampler Deployment Duration (days)	Analysis
LDW-Y3-SU-ENR+AC-CA-S010	<i>Ex situ</i>	0 - 10	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-SU-ENR+AC-CC-S010	<i>Ex situ</i>	0 - 10	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-SU-ENR+AC-CD-S010	<i>Ex situ</i>	0 - 10	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-SU-ENR+AC-CA-S010-BIO	<i>Ex situ</i> (bioaccum)	0 - 10	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-SU-ENR+AC-CB-S010-BIO	<i>Ex situ</i> (bioaccum)	0 - 10	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-SU-ENR+AC-CC-S010-BIO	<i>Ex situ</i> (bioaccum)	0 - 10	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-SU-ENR-CA-S010	<i>Ex situ</i>	0 - 10	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-SU-ENR-CB-S010	<i>Ex situ</i>	0 - 10	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-SU-ENR-CC-S010	<i>Ex situ</i>	0 - 10	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-SU-ENR-CA-S010-BIO	<i>Ex situ</i> (bioaccum)	0 - 10	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-SU-ENR-CB-S010-BIO	<i>Ex situ</i> (bioaccum)	0 - 10	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-SU-ENR-CC-S010-BIO	<i>Ex situ</i> (bioaccum)	0 - 10	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-SU-S010-LCB	<i>Ex situ</i> (water)	-	7/24/2020	9/25/2020	63	PCB Congeners (1668C)
LDW-Y3-LBS-WAT-S010-SPME	<i>Ex situ</i> (bioaccum water)	-	8/26/2020	9/23/2020	28	PCB Congeners (1668C)
LDW-Y3-IN-ENR+AC-CA-S010	<i>In situ</i>	0 - 10	8/3/2020	9/16/2020	44	PCB Congeners (1668C)

Customer Sample ID	Deployment	Sediment Deployment Depth (cm)	Earliest Sampler Deployment Date	Latest Retrieval Date	Average Sampler Deployment Duration (days)	Analysis
LDW-Y3-IN-ENR+AC-CB-S010	<i>In situ</i>	0 - 10	8/3/2020	9/16/2020	44	PCB Congeners (1668C)
LDW-Y3-IN-ENR+AC-CC-S010	<i>In situ</i>	0 - 10	7/24/2020	9/25/2020	40	PCB Congeners (1668C)
LDW-Y3-IN-ENR-CB-S010	<i>In situ</i>	0 - 10	8/3/2020	9/16/2020	44	PCB Congeners (1668C)
LDW-Y3-IN-ENR-CC-S010	<i>In situ</i>	0 - 10	8/3/2020	9/16/2020	44	PCB Congeners (1668C)
LDW-Y3-IN-ENR-CD-S010	<i>In situ</i>	0 - 10	8/3/2020	9/16/2020	37	PCB Congeners (1668C)
LDW-Y3-EXTRA-S010-TB	Trip Blank	-	7/24/2020	9/25/2020	-	PCB Congeners (1668C)
LDW-Y3-SC-S010-TB	Trip Blank	-	7/24/2020	9/25/2020	-	PCB Congeners (1668C)
LDW-Y3-SU-S010-TB	Trip Blank	-	7/24/2020	9/25/2020	-	PCB Congeners (1668C)
LDW-Y3-IN-S010-TB	Trip Blank	-	7/24/2020	9/25/2020	-	PCB Congeners (1668C)

Sampler Design and Preparation

The sampler design used 10-centimeter (cm) lengths of solid phase microextraction (SPME) fiber with 10-micrometer (μm) thick polydimethylsiloxane (PDMS) on a 2000- μm diameter silica core (0.631 microliter [μL] PDMS per cm SPME). Each SPME fiber was housed in a stainless-steel mesh envelope attached to a steel support bar. During processing (described below), 5 to 6 individual SPME fibers were composited together to represent single samples. The same design was used for both *in situ* and *ex situ* SPME deployments in Baseline, Year 1, and Year 2 monitoring events.

During sampler production, SPMEs were spiked with the Performance Reference Compounds (PRCs) consisting of rare Polychlorinated Biphenyl (PCB) congeners assumed to: 1) not be present in the media in which the samplers were deployed, or 2) present at concentrations so low as to be inconsequential, not affect calculations involving PRCs, and insignificant compared to the concentration of other

freely-dissolved PCBs in the media sampled. The PRCs used for this project were: PCB-14, PCB-36, PCB-78, PCB-104, PCB-121, PCB-142, PCB-155, PCB-184, PCB-192, and PCB-204². Samplers were produced by SiREM (<http://siremlab.com/>).

Sampler Deployment

The SP3TM sampler design for *in situ* deployment in Year 3 also featured an additional “Type 1” SPME design for deployment at each SPME location in the Scour Plot (**Figure 1**). The Type 1 sampler is referred to as “LONG” in the sample IDs. The Type 1 SPME design features a longer support rod that extended past the end of the 10-cm long SPME within its envelope (**Figure 1**). Both Type 1 and Type 2 SPMEs had a length of 10 cm. The position of the SPME fiber within the mesh envelope of the Type 1 SPME is identical to that of the Type 2 SPME such that the SPME is exposed to the top 10 cm of whatever material (layers) in which it is inserted.

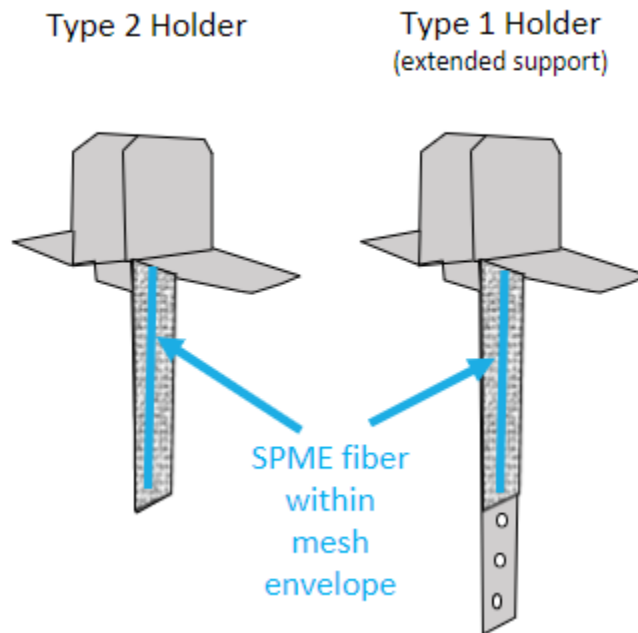


Figure 1. Type 2 SPME (left) and Type 1 SPME (right). Type 2 SPMEs were deployed at all locations; Type 1 SPMEs were deployed near Type 2 SPMEs at all Scour Plot locations.

² PCB shorthand nomenclature used in this report follows the Chemical Abstract Service (CAS) nomenclature used by USEPA (2003): United States Environmental Protection Agency (USEPA). 2003. Table of PCB Species by Congener Number.

At the Scour Plot, both a Type 1 and Type 2 SPME were deployed *in situ* at each location. Type 1 SPMEs were deployed in whatever material was present at the locations, including layers of depositional (silt) material that were found on top of the ENR and ENR+AC layers. In contrast, the Type 2 SPME was deployed in whatever material was present only if the silt layer was less than 3 cm thick, as measured by a SCUBA diver during SPME deployment (**Figure 2A**). In contrast, if the silt layer was 3 cm or more in thickness, the SCUBA diver cleared the silt from a small area (by hand), and then inserted the Type 2 SPME such that the Type 2 SPME was only exposed to the top 10 cm of ENR or ENR+AC material. The thickness of silt at the SPME locations (measured during SPME deployment) and the clearance of silt (if performed) for the SPMEs is noted in Table A7 of Attachment A.

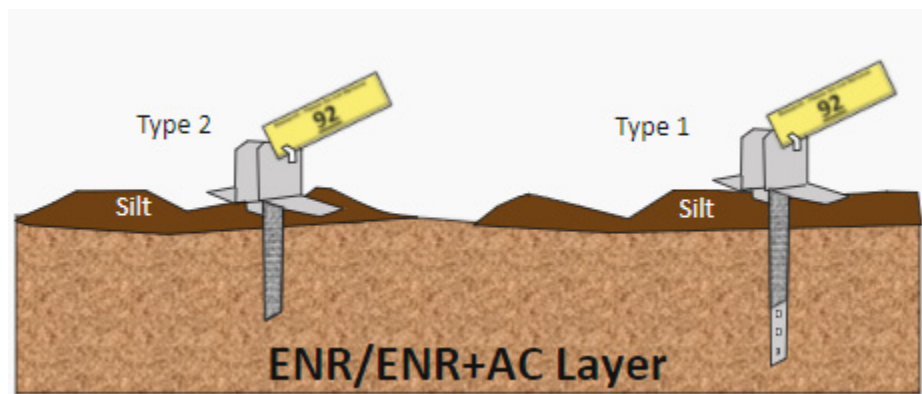


Figure 2A. Scour Plot SPME Deployment: Station with less than 3 cm of silt.

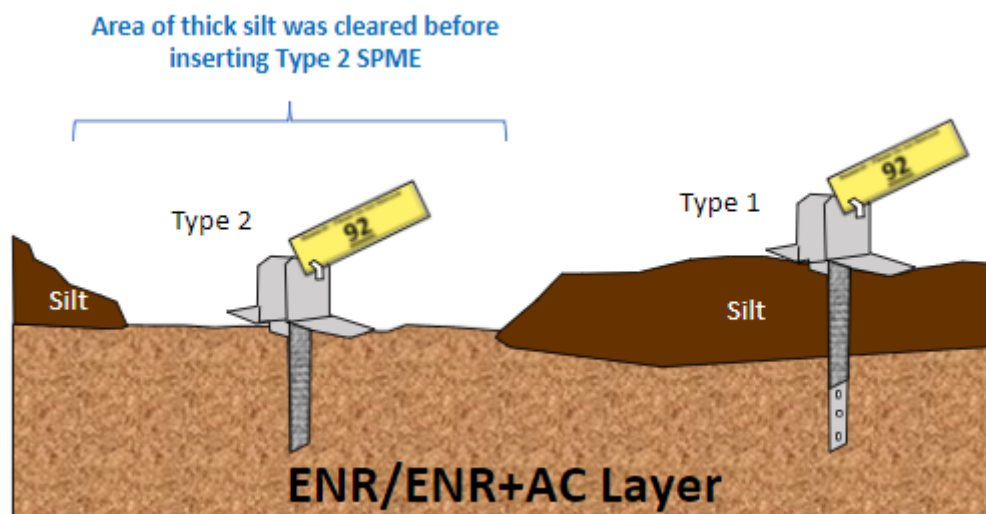


Figure 2B. Scour Plot SPME Deployment: Station with 3 cm or more of silt

Also, during deployment, depositional material (silt) was collected for at SPME deployment location with ≥ 3 cm silt deposition. In the laboratory, composite silt samples from the ENR subplot were combined to create a composite ENR silt sample, and composite silt samples from the ENR+AC subplot were combined to create a composite ENR+AC sample. These composite silt samples were then placed into 12 core tubes (6 for ENR silt, 6 for ENR+AC silt). After insertion of a SPME rod, they were covered with overlying water and allowed to equilibrate *ex situ* as for the Subtidal Plot SPMEs.

Six *ex situ* sediment-exposed samples were exposed *ex situ* to sediment (Subtidal Plot) in core tubes containing sediment in the EcoAnalysts laboratory in Port Gamble, WA. In addition, SPMEs were deployed in additional (larger) core tubes used in the bioaccumulation tests (SPME samples with “BIO” in their sample IDs). The *ex-situ* bioaccumulation test exposed samples consisted of 6 SPME fibers (60 cm of SPME fibers total) exposed *ex situ* in test columns containing sediment and organisms for 28 days in the EcoAnalysts laboratory in Port Gamble, WA. The same approach was used as for the *ex situ* as for the Subtidal Plot SPMEs, although sodium azide was not used in the overlying water for these deployments, as sodium azide may have adversely affected the organisms in the bioaccumulation testing. Full details of the bioaccumulation test are described in a separate report by EcoAnalysts. Two samplers were exposed to laboratory water control blank during the *ex situ* (Subtidal Plot) laboratory and bioaccumulation studies. Four trip blank SPME samples were created by exposing SPMEs to ambient field conditions for 5 minutes (each trip blank was a composite of 6 samplers for a total SPME fiber length of 60 cm).

Sampler Recovery, Compositing, and Processing

As noted above, each sample was comprised of five to six individual SPME fibers that was composited into a single SPME sampler for analysis. Details on the individual SPME fibers used in the compositing process are show in Table A2 of Appendix A.

In Year 3 retrieval of SPME fibers deployed in situ, divers did not observe partially exposed SPMEs as in Year 1 and Year 2. All SPMEs were either completely submerged or completely exposed/missing. The recovery of in situ SPMEs at the Intertidal Plot for the Year 3 monitoring was less than expected.

Due to the lost/unusable SPMEs, archive SPMEs were substituted to achieve 5 to 6 SPMEs per composite sample for three primary samples. The SPME composites that were analyzed for each of the Intertidal subplots based on the recoverable SPMEs (from A, B, C, D, and E locations) were as follows:

- ENR subplot
 - 5 B SPMEs for sample LDW-Y3-IN-ENR-CB-S010
 - 4 C SPMEs and 1 A SPME for sample LDW-Y3-IN-ENR-CC-S010
 - 5 D SPMEs and 1 E SPME for sample LDW-Y3-IN-ENR-CD-S010
- ENR+AC subplot
 - 4 A SPMEs and 1 E SPME for LDW-Y3-IN-ENR+AC-CA-S010
 - 4 B SPMEs and 2 E SPMEs for LDW-Y3-IN-ENR+AC-CB-S010
 - 4 C SPMEs and 1 D SPME for LDW-Y3-IN-ENR+AC-CC-S010

The recovery of *in situ* SPMEs at the Scour Plot for the Year 3 monitoring was slightly less than expected. Due to the lost/unusable SPMEs, archive SPMEs were substituted to achieve 6 locations per composite for three primary samples. For each composite SPME in the Scour Plot, there were both Type 1 and Type 2 SPME fibers. The Type 1 and Type 2 SPME samplers followed the same compositing approaches. The SPME composites that were analyzed for each of the Scour subplots based on the recoverable SPMEs (from A, B, C, D, and E locations) were as follows:

- ENR subplot:
 - 5 A SPMEs (Type 2) and 1 E SPME (Type 2) for sample LDW-Y3-SC-ENR-CA-S010
 - 5 A “LONG” (Type 1) SPMEs and 1 “LONG” (Type 1) E SPME for sample LDW-Y3-SC-ENR-CA-S010-LONG
 - 6 C SPMEs (Type 2) for sample LDW-Y3-SC-ENR-CC-S010
 - 6 C “LONG” (Type 1) SPMEs for sample LDW-Y3-SC-ENR-CC-S010-LONG
 - 6 D SPMEs (Type 2) for sample LDW-Y3-SC-ENR-CD-S010
 - 6 D “LONG” (Type 1) SPMEs for sample LDW-Y3-SC-ENR-CD-S010-LONG
- ENR+AC subplot
 - 5 A SPMEs (Type 2) and 1 D SPME (Type 2) for sample LDW-Y3-SC-ENR+AC-CA-S010
 - 5 A “LONG” (Type 1) SPMEs and 1 D “LONG” (Type 1) SPME for sample LDW-Y3-SC-ENR+AC-CA-S010-LONG
 - 6 B SPMEs (Type 2) for sample LDW-Y3-SC-ENR+AC-CB-S010
 - 6 B “LONG” (Type 1) SPMEs for sample LDW-Y3-SC-ENR+AC-CB-S010-LONG
 - 5 C SPMEs (Type 2) and 1 D SPME (Type 2) for sample LDW-Y3-SC-ENR+AC-CC-S010
 - 5 C “LONG” (Type 1) SPMEs and 1 D “LONG” (Type 1) SPME for sample LDW-Y3-SC-ENR+AC-CC-S010-LONG

One SPME from the Subtidal Plot *ex situ* test was not recovered during processing (a SPME fiber from one of the ENR+AC “B” core tubes). In place of the B composite SPME sample (which only contained 5 SPMEs), the D sample (LDW-Y3-SU-ENR+AC-CD-S010, which contained all 6 SPMEs) was analyzed instead.

Processing of the samplers at an environmental laboratory included removal of the fiber from the stainless-steel mesh envelope and wiping any visible sediment from the fiber using a moist tissue, placing the fiber in a pre-weighed amber glass vial, weighing the vial to determine the mass of fiber present, and adding hexane to extract PCBs from the PDMS. Hexane extracts for were shipped to Frontier Analytical Laboratory for measurement of PCB congeners via USEPA Method 1668C. This data was used to calculate the freely dissolved concentrations (C_{free}) of PCBs in sediment porewater as shown in Table 1. The data analysis steps are provided in Attachment A and the analytical reports are provided as an attachment to the Data Report (to which this Certificate of Analysis is attached).

Results

Total PCB congeners C_{free} results are reported in Table 1 (attached).

Samples included Frontier Analytical Laboratory reports 13371 (received in two parts dated 10/29/2020 and 11/12/2020), 13372 (dated 10/29/2020), and 13373 (dated 10/30/2020). Samples were received in good condition and at 0 degrees Celsius ($^{\circ}C$) which is outside method recommended sample temperature range for storage (less than $-10^{\circ}C$), but within the range for sample transport (less than $6^{\circ}C$). This is not expected to result in poor analytical quality since PCBs are not expected to degrade in hexane over the timescale of shipment (1 day).

The data from one of the trip blank samplers (LDW-Y3-SC-S010-TB) was rejected due to the following reasons:

1. Concentrations of PCB PRCs in LDW-Y3-SC-S010-TB were 20% or more lower than the average of concentrations of PRCs in the other 3 TBs, indicating a potential anomaly.
2. Approximately 60-70% of the concentrations of PRCs in the samplers exposed to the sediment were higher than concentrations of PRCs in LDW-Y3-SC-S010-TB.
3. If LDW-Y3-SC-S010-TB is used in the calculation process, approximately one-third of the sample results would be incalculable due to the concentrations of PRCs in the exposed samplers being higher than average concentrations of PRCs in the trip blanks.

Therefore, the results from the anomalous LDW-Y3-SC-S010-TB sample was excluded from the calculation process such that data from the other 3 trip blanks (LDW-Y3-SU-S010-TB, LDW-Y3-IN-S010-TB and LDW-Y3-EXTRA-S010-TB) were used to calculate the average concentration of the PRC in the PDMS at the beginning of the deployment (as described in Attachment A). This approach was also used in the previous Year 2 calculation approach.

One sample (LDW-Y3-SC-ENR+AC-CB-S010-LONG) indicated concentrations for 8 of the 10 PRCs in the SPME that were slightly higher than the average concentration of PRCs in the 3 trip blank samples. This was observed for the 8 most hydrophobic PRCs, and may indicate limited equilibration of the sampler. The PRC results from just 2 PRCs were used to calculate C_{free} in this sampler. Because the calculation process relies on regression modeling (Attachment A), the use of only 2 PRCs does not allow an estimation of uncertainty around the C_{free} estimates for this sample. As a result, uncertainty values (as shown in Table A6 of Attachment A) were not calculated for this sample.

TABLE 1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010		LDW-Y3-SC-ENR+AC-CB-S010		LDW-Y3-SC-ENR+AC-CC-S010				
			[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] DL		
			(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)		
PCB-1	Mono			U	11		U	9.9		U	14
PCB-2	Mono			U	3.1		U	2.5		U	4.4
PCB-3	Mono			U	3.3		U	2.7		U	4.7
PCB-4	Di		79		13	31		12	66		16
PCB-5	Di			U	4.4		U	3.2		U	6.1
PCB-6	Di		20		7.2	11		6.4	23		8.9
PCB-7	Di			U	4		U	3	8.6	J	8.9
PCB-8	Di		84		7.2	43		6.4	76		8.9
PCB-9	Di		8.2		7.2		U	3.1		U	6.2
PCB-10	Di			U	7.4		U	5.9		U	10
PCB-11	Di		0.78		4.7	2.2		4.1	5.1		5.2
PCB-12	Di			U	2.8		U	2		U	3.7
PCB-13	Di			U	2.9		U	2.1		U	3.5
PCB-14	Di	PRC									
PCB-15	Di		13		4.7	6.1		4.1	14		5.2
PCB-16	Tri		77		4.7	44		4.1	58		5.3
PCB-17	Tri		110		4.7	67		4.1	100		5.3
PCB-18	Tri		230		4.7	160		4.1	220		5.3
PCB-19	Tri		47		6.2	24		5.5	35		7.6
PCB-20	Tri		100	C	3.8	70	C	3.4	87	C	3.8
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		48		3.8	36		3.4	46		3.8
PCB-23	Tri			U	1.9		U	1.5		U	1.9
PCB-24	Tri		14		4.7	8.3		4.1	11		5.3
PCB-25	Tri		17		3.8	14		3.4	17		3.8
PCB-26	Tri		35		3.8	27		3.4	29		3.8
PCB-27	Tri		11		4.7	7.5		4.1	11		5.3
PCB-28	Tri		140		3.8	94		3.4	120		3.8
PCB-29	Tri			U	1.9		U	1.5		U	1.8
PCB-30	Tri			U	3.1		U	2.1		U	3.3
PCB-31	Tri		120		3.8	88		3.4	140		3.8
PCB-32	Tri		85		4.7	46		4.1	82		5.3
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	2		U	1.6		U	1.9
PCB-35	Tri			U	1.6		U	1.4		U	1.3
PCB-36	Tri	PRC									
PCB-37	Tri		19		3.2	18		3.1	17		2.8
PCB-38	Tri			U	1.7		U	1.4		U	1.2
PCB-39	Tri			U	1.6		U	1.3		U	1.3
PCB-40	Tetra		27		3.1	20		3	27		2.4
PCB-41	Tetra		110	C	3	94	C	3	110	C	2.3
PCB-42	Tetra		53	C	3.1	43	C	3	52	C	2.4
PCB-43	Tetra		140	C	3.1	110	C	3	130	C	2.4
PCB-44	Tetra		140		3.1	100		3	130		2.4
PCB-45	Tetra		41		3.4	29		3.2	47		3.1
PCB-46	Tetra		17		3.4	12		3.2	18		3.1
PCB-47	Tetra		50		3.1	37		3	55		2.4
PCB-48	Tetra		34	C	3.1	26	C	3	31	C	2.4
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra			U	2	2.5	J	3.2	3	J	3.1
PCB-51	Tetra		15		3.4	9.7		3.2	16		3.1
PCB-52	Tetra		170	C	3.1	140	C	3	180	C	2.4
PCB-53	Tetra		40		3.4	30		3.2	39		3.1
PCB-54	Tetra			U	1.5		U	1.5		U	1.7
PCB-55	Tetra		3.6		2.8	3.3		2.9	3		1.9
PCB-56	Tetra		63	C	2.8	58	C	2.9	46	C	1.9
PCB-57	Tetra		1.6	J	2.8		U	1.3		U	1.1
PCB-58	Tetra			U	1.2		U	1.3		U	1.1
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		100	C	2.8	91	C	2.9	90	C	1.9
PCB-62	Tetra			U	1.5		U	1.5		U	1.4
PCB-63	Tetra		4.6		2.8	4		2.9	5.3		1.9
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	1.4		U	1.4		U	1.4
PCB-66	Tetra		80	C	2.8	73	C	2.9	73	C	1.9
PCB-67	Tetra		5.7		2.8	3.5		2.9	5.1		1.9
PCB-68	Tetra		2.2	J	2.8	2	J	2.9	2.3		1.9
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		2.9		3.1	1.6		3	2.3		2.4
PCB-74	Tetra		45		2.8	40		2.9	42		1.9
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		4.9	L	2.6	5.3	L	2.9	3.5		1.5
PCB-78	Tetra	PRC									
PCB-79	Tetra		1.6	J L	2.6		U L	1.2		U	0.84
PCB-80	Tetra		1.4	J L	2.6	1.3	J L	2.9		U	0.76
PCB-81	Tetra		1.8	J L	2.6	3.6	L	2.9		U	0.83

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010-LONG			LDW-Y3-SC-ENR+AC-CB-S010-LONG			LDW-Y3-SC-ENR+AC-CC-S010-LONG		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		23	J	32		U	12		U	7.2
PCB-2	Mono			U	2.5		U	2.8		U	1.7
PCB-3	Mono			U	2.7		U	3		U	1.7
PCB-4	Di		41		12	19		12	58		12
PCB-5	Di			U	3.7		U	3.9		U	2.3
PCB-6	Di		5.6	J	6.3	8.2		6.2	19		6
PCB-7	Di			U	3.5		U	3.8	3.4	J	6
PCB-8	Di		26		6.3	31		6.2	77		6
PCB-9	Di			U	3.6		U	4	5.2	J	6
PCB-10	Di			U	6.9		U	7.3		U	4.5
PCB-11	Di		4.7		4.6	6.1		4	4		3.8
PCB-12	Di			U	2.7		U	2.6		U	1.5
PCB-13	Di			U	2.7		U	2.5		U	1.4
PCB-14	Di	PRC									
PCB-15	Di		5.4		4.6	9.6		4	13		3.8
PCB-16	Tri		26		4.6	30		4.1	42		3.9
PCB-17	Tri		40		4.6	42		4.1	76		3.9
PCB-18	Tri		100		4.6	96		4.1	180		3.9
PCB-19	Tri		16		5.5	13		5.3	25		5.1
PCB-20	Tri		49	C	4.6	55	C	3.6	100	C	3.7
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		27		4.6	32		3.6	48		3.7
PCB-23	Tri			U	2		U	1.3		U	1.8
PCB-24	Tri		6.5		4.6	6		4.1	8.3		3.9
PCB-25	Tri		9.8		4.6	12		3.6	18		3.7
PCB-26	Tri		19		4.6	20		3.6	30		3.7
PCB-27	Tri		6.2		4.6	4.8		4.1	8.5		3.9
PCB-28	Tri		75		4.6	82		3.6	130		3.7
PCB-29	Tri			U	2.1		U	1.3		U	1.7
PCB-30	Tri			U	2.3		U	1.9		U	1.7
PCB-31	Tri		61		4.6	86		3.6	140		3.7
PCB-32	Tri		32		4.6	31		4.1	66		3.9
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	2.1		U	1.3		U	1.8
PCB-35	Tri			U	2.3		U	1.2		U	1.9
PCB-36	Tri	PRC									
PCB-37	Tri		19		5.2	18		3.5	27		4.2
PCB-38	Tri			U	2.4		U	1.2		U	1.8
PCB-39	Tri			U	2.3		U	1.2		U	1.9
PCB-40	Tetra		30	L	5.5	26		3.5	33	L	4.6
PCB-41	Tetra		130	C L	5.7	98	C	3.6	160	C L	4.8
PCB-42	Tetra		62	C L	5.5	46	C	3.5	75	C L	4.6
PCB-43	Tetra		150	C L	5.5	120	C	3.5	180	C L	4.6
PCB-44	Tetra		150	L	5.5	110		3.5	170	L	4.6
PCB-45	Tetra		34		4.9	29		3.5	41		4
PCB-46	Tetra		15		4.9	13		3.5	16		4
PCB-47	Tetra		59	L	5.5	46		3.5	65	L	4.6
PCB-48	Tetra		33	C L	5.5	27	C	3.5	44	C L	4.6
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		3.3	J	4.9	3.4	J	3.5	3.2	J	4
PCB-51	Tetra		16		4.9	15		3.5	18		4
PCB-52	Tetra		200	C L	5.5	160	C	3.5	220	C L	4.6
PCB-53	Tetra		37		4.9	33		3.5	45		4
PCB-54	Tetra			U	1.8		U	1.6		U	1.3
PCB-55	Tetra		3.3	L	6.3	3.6	L	3.7	4	L	5.4
PCB-56	Tetra		83	C L	6.3	56	C L	3.7	98	C L	5.4
PCB-57	Tetra			U L	2.2	2.2	J L	3.7		U L	1.5
PCB-58	Tetra			U L	2.2		U L	1.6		U L	1.6
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		140	C L	6.3	100	C L	3.7	180	C L	5.4
PCB-62	Tetra			U L	2.1		U	1.5		U L	1.3
PCB-63	Tetra		6.8	L	6.3	6.3	L	3.7	9.4	L	5.4
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U L	2		U	1.5		U L	1.3
PCB-66	Tetra		120	C L	6.3	89	C L	3.7	150	C L	5.4
PCB-67	Tetra		7.8	L	6.3	6.2	L	3.7	8.2	L	5.4
PCB-68	Tetra		3	J L	6.3	3.2	L	3.7	3.7	J L	5.4
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		3.8	L	5.5	2.1		3.5	4.9	L	4.6
PCB-74	Tetra		65	L	6.3	47	L	3.7	83	L	5.4
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		8.7	L	7.3	8	L	3.8	14	L	6.5
PCB-78	Tetra	PRC									
PCB-79	Tetra			U L	3.6		U L	1.4	2.9	J L	6.5
PCB-80	Tetra			U L	2.1	2.7	J L	3.8	3.5	J L	6.5
PCB-81	Tetra			U L	3.7	2.9	J L	3.8	6.6	L	6.5

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP			LDW-Y3-SC-ENR-CA-S010			LDW-Y3-SC-ENR-CC-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono			U	8.7		U	6.1		U	8.7
PCB-2	Mono			U	2.5		U	2		U	2.1
PCB-3	Mono			U	2.8		U	2.2		U	2.3
PCB-4	Di		38		13	78		14	110		12
PCB-5	Di			U	4		U	3.4		U	2.8
PCB-6	Di		17		7.3	25		8.5	40		6.3
PCB-7	Di			U	3.9		U	3.3	9		6.3
PCB-8	Di		58		7.3	100		8.5	160		6.3
PCB-9	Di			U	4.1		U	3.5	5.4	J	6.3
PCB-10	Di			U	6.4		U	5.2		U	4.9
PCB-11	Di		2.2		5.4		UB	5.7	6		3.8
PCB-12	Di			U	3.3		U	2.5	2.3	J	3.8
PCB-13	Di			U	3.2		U	2.4	3.4	J	3.8
PCB-14	Di	PRC									
PCB-15	Di		21		5.4	18		5.7	24		3.8
PCB-16	Tri		49		5.5	67		5.7	110		3.8
PCB-17	Tri		73		5.5	96		5.7	160		3.8
PCB-18	Tri		190		5.5	230		5.7	410		3.8
PCB-19	Tri		29		6.5	45		7.5	63		5.3
PCB-20	Tri		100	C	5	95	C	4.6	170	C	3
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		50		5	47		4.6	86		3
PCB-23	Tri			U	2		U	1.4		U	1.3
PCB-24	Tri		4.4	J	5.5	9.7		5.7	21		3.8
PCB-25	Tri		23		5	21		4.6	29		3
PCB-26	Tri		42		5	33		4.6	50		3
PCB-27	Tri		18		5.5	18		5.7	16		3.8
PCB-28	Tri		150		5	150		4.6	240		3
PCB-29	Tri			U	1.9		U	1.3	2.8	J	3
PCB-30	Tri			U	1.6		U	1.1		U	1.7
PCB-31	Tri		160		5	140		4.6	220		3
PCB-32	Tri		62		5.5	82		5.7	130		3.8
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	1.9		U	1.3	2.2	J	3
PCB-35	Tri			U	1.9		U	1.1	2.5	J	2.6
PCB-36	Tri	PRC									
PCB-37	Tri		31		4.9	20		3.8	36		2.6
PCB-38	Tri			U	1.8		U	1.1	1.4	J	2.6
PCB-39	Tri			U	1.8		U	1.1		U	1.2
PCB-40	Tetra		35	L	4.9	19		3.5	29		2.5
PCB-41	Tetra		150	C L	4.9	84	C	3.4	130	C	2.4
PCB-42	Tetra		75	C L	4.9	43	C	3.5	62	C	2.5
PCB-43	Tetra		190	C L	4.9	99	C	3.5	140	C	2.5
PCB-44	Tetra		180	L	4.9	100		3.5	150		2.5
PCB-45	Tetra		47		4.9	33		4	44		2.7
PCB-46	Tetra		21		4.9	14		4	20		2.7
PCB-47	Tetra		71	L	4.9	35		3.5	52		2.5
PCB-48	Tetra		40	C L	4.9	24	C	3.5	39	C	2.5
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra			U	2.4	3.5	J	4	1.9	J	2.7
PCB-51	Tetra		22		4.9	12		4	17		2.7
PCB-52	Tetra		250	C L	4.9	140	C	3.5	180	C	2.5
PCB-53	Tetra		53		4.9	33		4	47		2.7
PCB-54	Tetra			U	1.9		U	1.4	1.6	J	2.6
PCB-55	Tetra		5.1	L	5	2.1		3.1	4.3		2.3
PCB-56	Tetra		97	C L	5	44	C	3.1	69	C	2.3
PCB-57	Tetra			U L	1.9		U	1		U	0.74
PCB-58	Tetra			U L	1.9		U	1.1		U	0.77
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		150	C L	5	74	C	3.1	120	C	2.3
PCB-62	Tetra			U L	2.1		U	1.4		U	0.89
PCB-63	Tetra		6.7	L	5	3.3		3.1	4.5		2.3
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U L	1.8		U	1.2		U	0.79
PCB-66	Tetra		120	C L	5	63	C	3.1	92	C	2.3
PCB-67	Tetra		6.1	L	5	3.3		3.1	5.8		2.3
PCB-68	Tetra		3.3	J L	5	2	J	3.1	2.4		2.3
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		2.8	L	4.9		U	1.2	2.5		2.5
PCB-74	Tetra		68	L	5	33		3.1	55		2.3
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		9.1	L	5.1	3.7	L	2.7	6.7	L	2.1
PCB-78	Tetra	PRC									
PCB-79	Tetra		4.1	J L	5.1		U L	0.93	1.2	J L	2.1
PCB-80	Tetra		2.6	J L	5.1	1.5	J L	2.7	3.2	L	2.1
PCB-81	Tetra			U L	2.6	1.9	J L	2.7	3.4	L	2.1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010		LDW-Y3-SC-ENR-CA-S010-LONG		LDW-Y3-SC-ENR-CC-S010-LONG				
			[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL	[PCB Cfree] Result	[PCB Cfree] DL			
			(pg/L)	Qualifier	(pg/L)	Qualifier	(pg/L)	Qualifier			
PCB-1	Mono			U	9.4		U	6.4		U	10
PCB-2	Mono			U	2.5		U	2		U	3
PCB-3	Mono			U	2.6		U	2.2		U	3.2
PCB-4	Di		86		12	120		15	110		15
PCB-5	Di			U	1.6		U	3.5		U	2.2
PCB-6	Di		26		6.5	36		8.5	35		7.8
PCB-7	Di		3.3	J	6.5		U	3.5	7.3	J	7.8
PCB-8	Di		110		6.5	140		8.5	150		7.8
PCB-9	Di		6.8		6.5	9.9		8.5	7.4	J	7.8
PCB-10	Di			U	2.9		U	5.9		U	3.9
PCB-11	Di		6.2		3.9		UB	5	0.78		4.4
PCB-12	Di		2.1	J	3.9		U	2.3		U	1.4
PCB-13	Di		2.1	J	3.9		U	2.2	2.8	J	4.4
PCB-14	Di	PRC									
PCB-15	Di		17		3.9	23		5	21		4.4
PCB-16	Tri		67		4	66		5.1	75		4.4
PCB-17	Tri		92		4	110		5.1	120		4.4
PCB-18	Tri		230		4	280		5.1	300		4.4
PCB-19	Tri		47		5.5	56		7.3	60		6.6
PCB-20	Tri		90	C	3.1	100	C	3.6	90	C	3.1
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		45		3.1	53		3.6	44		3.1
PCB-23	Tri			U	1.2		U	1.5		U	1.4
PCB-24	Tri		13		4	13		5.1	16		4.4
PCB-25	Tri		18		3.1	21		3.6	19		3.1
PCB-26	Tri		32		3.1	37		3.6	34		3.1
PCB-27	Tri		11		4	18		5.1	18		4.4
PCB-28	Tri		120		3.1	150		3.6	140		3.1
PCB-29	Tri		1.8	J	3.1		U	1.4		U	1.3
PCB-30	Tri			U	1.6		U	2.1		U	1.9
PCB-31	Tri		140		3.1	160		3.6	150		3.1
PCB-32	Tri		77		4	100		5.1	110		4.4
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	1.2		U	1.4		U	1.3
PCB-35	Tri			U	1		U	1.1		U	0.95
PCB-36	Tri	PRC									
PCB-37	Tri		18		2.6	20		2.6	17		2.1
PCB-38	Tri			U	0.95		U	1		U	0.9
PCB-39	Tri			U	0.94		U	1		U	0.89
PCB-40	Tetra		17		2.4	19		2.3	14		1.9
PCB-41	Tetra		70	C	2.3	78	C	2.2	61	C	1.7
PCB-42	Tetra		36	C	2.4	40	C	2.3	29	C	1.9
PCB-43	Tetra		87	C	2.4	97	C	2.3	74	C	1.9
PCB-44	Tetra		86		2.4	96		2.3	73		1.9
PCB-45	Tetra		29		2.7	36		2.9	27		2.4
PCB-46	Tetra		12		2.7	16		2.9	11		2.4
PCB-47	Tetra		28		2.4	34		2.3	25		1.9
PCB-48	Tetra		21	C	2.4	23	C	2.3	17	C	1.9
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		1.7	J	2.7	2.4	J	2.9	1.5	J	2.4
PCB-51	Tetra		10		2.7	13		2.9	9.8		2.4
PCB-52	Tetra		120	C	2.4	130	C	2.3	98	C	1.9
PCB-53	Tetra		29		2.7	36		2.9	29		2.4
PCB-54	Tetra			U	1		U	0.75	1.2	J	2.3
PCB-55	Tetra		2.2		2.2	3		1.8	1.2		1.4
PCB-56	Tetra		41	C	2.2	42	C	1.8	32	C	1.4
PCB-57	Tetra			U	0.79		U	0.48		U	0.41
PCB-58	Tetra			U	0.79		U	0.48		U	0.41
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		62	C	2.2	64	C	1.8	48	C	1.4
PCB-62	Tetra			U	1		U	0.69		U	0.61
PCB-63	Tetra		2.9		2.2	3		1.8	1.9		1.4
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.89		U	0.61		U	0.54
PCB-66	Tetra		53	C	2.2	53	C	1.8	39	C	1.4
PCB-67	Tetra		2.7		2.2	2.5		1.8	2		1.4
PCB-68	Tetra		1.7	J	2.2	1	J	1.8	0.87	J	1.4
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		0.92		2.4	0.85	J	2.3	0.94		1.9
PCB-74	Tetra		27		2.2	29		1.8	20		1.4
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		4.2		2	3.5		1.5	2.8		1.1
PCB-78	Tetra	PRC									
PCB-79	Tetra		1.2	J	2	1.1	J	1.5	0.58	J	1.1
PCB-80	Tetra		0.97	J	2	0.64	J	1.5	0.46	J	1.1
PCB-81	Tetra		1.6	J	2	2.1		1.5	1.2		1.1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG			LDW-Y3-SC-ENR-S010-DEP			LDW-Y3-SU-ENR+AC-CA-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		12	J	35	21	J	44	160		33
PCB-2	Mono			U	1.8		U	3.4		U	1.5
PCB-3	Mono			U	2.1		U	3.9	7.9	J	8.7
PCB-4	Di		110		16	150		21	350		14
PCB-5	Di			U	3.8		U	5.6		U	2.9
PCB-6	Di		42		9.3	57		12	120		7.3
PCB-7	Di		7.7	J	9.3	9.2	J	12	17		7.3
PCB-8	Di		180		9.3	190		12	260		7.3
PCB-9	Di		12		9.3	12	J	12	20		7.3
PCB-10	Di			U	5.7		U	8.4	24		14
PCB-11	Di			UB	5.7	0.75		7.5	4.9		4.1
PCB-12	Di			U	2.5	4.9	J	7.5		U	1.7
PCB-13	Di			U	2.6	4.7	J	7.5	4.6		4.1
PCB-14	Di	PRC									
PCB-15	Di		26		5.7	39		7.5	24		4.1
PCB-16	Tri		160		5.8	140		7.7	130		4.1
PCB-17	Tri		210		5.8	200		7.7	270		4.1
PCB-18	Tri		550		5.8	510		7.7	690		4.1
PCB-19	Tri		80		8.1	93		11	120		6.2
PCB-20	Tri		220	C	4.3	160	C	5.6	120	C	2.9
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		110		4.3	87		5.6	59		2.9
PCB-23	Tri			U	1.3		U	2.8		U	1.1
PCB-24	Tri		26		5.8	28		7.7	29		4.1
PCB-25	Tri		34		4.3	31		5.6	39		2.9
PCB-26	Tri		62		4.3	55		5.6	69		2.9
PCB-27	Tri		25		5.8	26		7.7	24		4.1
PCB-28	Tri		300		4.3	270		5.6	200		2.9
PCB-29	Tri			U	1.2		U	2.7	1.7	J	2.9
PCB-30	Tri			U	2.1		U	3.7		U	1.7
PCB-31	Tri		290		4.3	230		5.6	220		2.9
PCB-32	Tri		160		5.8	160		7.7	210		4.1
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	1.4		U	3.1	3.7		2.9
PCB-35	Tri			U	0.98	3.4	J	4.1	1.4	J	2
PCB-36	Tri	PRC									
PCB-37	Tri		37		3.2	37		4.1	18		2
PCB-38	Tri			U	0.91		U	2	1.8	J	2
PCB-39	Tri			U	1		U	2.2		U	0.81
PCB-40	Tetra		32		2.9	31		3.5	31		1.7
PCB-41	Tetra		120	C	2.7	130	C	3.3	130	C	1.6
PCB-42	Tetra		60	C	2.9	66	C	3.5	70	C	1.7
PCB-43	Tetra		130	C	2.9	170	C	3.5	220	C	1.7
PCB-44	Tetra		150		2.9	160		3.5	200		1.7
PCB-45	Tetra		55		3.5	54		4.5	55		2.3
PCB-46	Tetra		24		3.5	23		4.5	24		2.3
PCB-47	Tetra		47		2.9	64		3.5	70		1.7
PCB-48	Tetra		37	C	2.9	38	C	3.5	43	C	1.7
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		2.4	J	3.5	4.1	J	4.5	2.4		2.3
PCB-51	Tetra		20		3.5	25		4.5	21		2.3
PCB-52	Tetra		180	C	2.9	220	C	3.5	300	C	1.7
PCB-53	Tetra		58		3.5	63		4.5	65		2.3
PCB-54	Tetra		2.1	J	3.4	2.2	J	4.2	1.4	J	2.1
PCB-55	Tetra		2.2		2.3	4.4		2.8	2.4		1.3
PCB-56	Tetra		53	C	2.3	60	C	2.8	44	C	1.3
PCB-57	Tetra		1.1	J	2.3		U	1	1.3	J	1.3
PCB-58	Tetra			U	0.64		U	1.1	1.1	J	1.3
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		93	C	2.3	110	C	2.8	110	C	1.3
PCB-62	Tetra			U	0.84		U	1.4		U	0.72
PCB-63	Tetra		3.8		2.3	4.8		2.8	4.8		1.3
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.74		U	1.3		U	0.64
PCB-66	Tetra		75	C	2.3	87	C	2.8	78	C	1.3
PCB-67	Tetra		4.2		2.3	5.4		2.8	4.7		1.3
PCB-68	Tetra		2	J	2.3	3.2		2.8	2.3		1.3
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		2.1		2.9	3.6		3.5	3.5		1.7
PCB-74	Tetra		43		2.3	50		2.8	46		1.3
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		4.3		1.9	5.9	L	2.2	3		1
PCB-78	Tetra	PRC									
PCB-79	Tetra			U	0.71	1.3	J L	2.2	1.1		1
PCB-80	Tetra		1.4	J	1.9	1.8	J L	2.2	0.83	J	1
PCB-81	Tetra		1.7	J	1.9	2.4	L	2.2	1.4		1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CC-S010			LDW-Y3-SU-ENR+AC-CD-S010			LDW-Y3-SU-ENR+AC-CA-S010-BIO		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		20	J	35	34		33	75		33
PCB-2	Mono			U	1.4		U	1.9		U	2.8
PCB-3	Mono			U	1.6		U	2.3		U	3.1
PCB-4	Di		150		14	190		14	160		16
PCB-5	Di			U	2.2		U	2.9		U	5
PCB-6	Di		49		7.4	59		7.2	61		10
PCB-7	Di		8.7		7.4	9.2		7.2	8.9	J	10
PCB-8	Di		140		7.4	160		7.2	130		10
PCB-9	Di		8.1		7.4	11		7.2	17		10
PCB-10	Di		8.6	J	14	12	J	14		U	6.6
PCB-11	Di		1.6		3.9	2.9		3.9		UB	7.9
PCB-12	Di			U	1.2	2.4	J	3.9		U	4.1
PCB-13	Di		3.1	J	3.9	2.4	J	3.9	5.6	J	7.9
PCB-14	Di	PRC									
PCB-15	Di		18		3.9	19		3.9	19		7.9
PCB-16	Tri		96		3.9	97		4	120		8
PCB-17	Tri		160		3.9	200		4	210		8
PCB-18	Tri		410		3.9	480		4	540		8
PCB-19	Tri		65		6.2	76		6.1	73		9.6
PCB-20	Tri		100	C	2.6	130	C	2.7	160	C	7
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		57		2.6	68		2.7	82		7
PCB-23	Tri			U	0.88		U	0.92		U	2.6
PCB-24	Tri		20		3.9	24		4	24		8
PCB-25	Tri		24		2.6	30		2.7	48		7
PCB-26	Tri		46		2.6	53		2.7	84		7
PCB-27	Tri		17		3.9	18		4	22		8
PCB-28	Tri		170		2.6	210		2.7	270		7
PCB-29	Tri		1.6	J	2.6	2.2	J	2.7		U	2.5
PCB-30	Tri			U	1.4		U	1.6		U	3.6
PCB-31	Tri		170		2.6	190		2.7	280		7
PCB-32	Tri		110		3.9	150		4	150		8
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri		2.4	J	2.6	3		2.7	4.9	J	7
PCB-35	Tri			U	0.6	1.5	J	1.9		U L	2.4
PCB-36	Tri	PRC									
PCB-37	Tri		17		1.7	23		1.9	35	L	6.2
PCB-38	Tri			U	0.57	1.8	J	1.9		U L	2.3
PCB-39	Tri			U	0.63		U	0.69		U L	2.6
PCB-40	Tetra		22		1.4	28		1.6	69	L	6
PCB-41	Tetra		94	C	1.3	140	C	1.5	330	C L	5.9
PCB-42	Tetra		44	C	1.4	63	C	1.6	150	C L	6
PCB-43	Tetra		120	C	1.4	180	C	1.6	460	C L	6
PCB-44	Tetra		130		1.4	180		1.6	430	L	6
PCB-45	Tetra		34		2	46		2.1	86		6.5
PCB-46	Tetra		14		2	19		2.1	38		6.5
PCB-47	Tetra		42		1.4	62		1.6	150	L	6
PCB-48	Tetra		28	C	1.4	38	C	1.6	94	C L	6
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		1.5	J	2	1.7	J	2.1	5.2	J	6.5
PCB-51	Tetra		14		2	17		2.1	35		6.5
PCB-52	Tetra		180	C	1.4	260	C	1.6	670	C L	6
PCB-53	Tetra		40		2	56		2.1	120		6.5
PCB-54	Tetra		1.1	J	1.8	1.4	J	2		U L	1.9
PCB-55	Tetra		2.2		1.1	2.3		1.2	12	L	5.6
PCB-56	Tetra		36	C	1.1	49	C	1.2	130	C L	5.6
PCB-57	Tetra		0.78	J	1.1	0.94	J	1.2	3.9	J L	5.6
PCB-58	Tetra		0.59	J	1.1		U	0.42		U L	1.8
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		78	C	1.1	110	C	1.2	320	C L	5.6
PCB-62	Tetra			U	0.52		U	0.59		U L	2.1
PCB-63	Tetra		2.9		1.1	4.4		1.2	14	L	5.6
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.46		U	0.52		U L	1.9
PCB-66	Tetra		54	C	1.1	80	C	1.2	220	C L	5.6
PCB-67	Tetra		2.8		1.1	4.2		1.2	13	L	5.6
PCB-68	Tetra		1.2		1.1	1.9		1.2	9.1	L	5.6
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		1.7		1.4	2		1.6	8.5	L	6
PCB-74	Tetra		34		1.1	49		1.2	140	L	5.6
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		2.4		0.77	4		0.93	12	L	5.2
PCB-78	Tetra	PRC									
PCB-79	Tetra		0.74	J	0.77	1		0.93	5	J L	5.2
PCB-80	Tetra		1.1		0.77	1.6		0.93	10	L	5.2
PCB-81	Tetra		1.5		0.77	2.2		0.93	11	L	5.2

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO			LDW-Y3-SU-ENR+AC-CC-S010-BIO			LDW-Y3-SU-ENR-CA-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		19	J	32	19	J	32	20	J	36
PCB-2	Mono			U	1.5		U	1.5		U	1.8
PCB-3	Mono			U	1.7		U	1.7		U	1.9
PCB-4	Di		54		13	94		13	180		15
PCB-5	Di			U	3		U	2.1		U	3.5
PCB-6	Di		22		7.5	36		7.6	61		7.8
PCB-7	Di			U	2.9	7.1	J	7.6	6.6	J	7.8
PCB-8	Di		56		7.5	95		7.6	160		7.8
PCB-9	Di			U	2.9	4.9	J	7.6	12		7.8
PCB-10	Di			U	4.6		U	3.3	12	J	15
PCB-11	Di			UB	5.3		UB	4.8	2.5		4.1
PCB-12	Di			U	2.3		U	1.4	3	J	4.1
PCB-13	Di			U	2.4		U	1.5	2.6	J	4.1
PCB-14	Di	PRC									
PCB-15	Di		8.6		5.3	13		4.8	15		4.1
PCB-16	Tri		75		5.4	100		4.9	95		4.2
PCB-17	Tri		100		5.4	150		4.9	160		4.2
PCB-18	Tri		250		5.4	380		4.9	350		4.2
PCB-19	Tri		30		6.7	53		6.6	62		6.5
PCB-20	Tri		84	C	4.7	110	C	3.8	110	C	2.8
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		44		4.7	61		3.8	58		2.8
PCB-23	Tri			U	1.7		U	1.1		U	1.1
PCB-24	Tri		14		5.4	19		4.9	18		4.2
PCB-25	Tri		22		4.7	28		3.8	31		2.8
PCB-26	Tri		38		4.7	52		3.8	60		2.8
PCB-27	Tri		8.5		5.4	14		4.9	13		4.2
PCB-28	Tri		150		4.7	190		3.8	160		2.8
PCB-29	Tri			U	1.7	2	J	3.8	1.8	J	2.8
PCB-30	Tri			U	2.1		U	2		U	1.6
PCB-31	Tri		130		4.7	170		3.8	190		2.8
PCB-32	Tri		51		5.4	99		4.9	100		4.2
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	1.9	2.8	J	3.8	2.6	J	2.8
PCB-35	Tri			U	1.7		U	0.93	1.3	J	1.8
PCB-36	Tri	PRC									
PCB-37	Tri		20		4.3	22		3	18		1.8
PCB-38	Tri			U	1.5		U	0.87	1.8	J	1.8
PCB-39	Tri			U	1.7		U	0.98		U	0.71
PCB-40	Tetra		33		4.2	35		2.8	23		1.5
PCB-41	Tetra		160	C	4.1	160	C	2.7	100	C	1.4
PCB-42	Tetra		73	C	4.2	74	C	2.8	49	C	1.5
PCB-43	Tetra		210	C	4.2	220	C	2.8	170	C	1.5
PCB-44	Tetra		200		4.2	210		2.8	140		1.5
PCB-45	Tetra		40		4.4	48		3.3	37		2.1
PCB-46	Tetra		18		4.4	20		3.3	15		2.1
PCB-47	Tetra		75		4.2	71		2.8	52		1.5
PCB-48	Tetra		45	C	4.2	49	C	2.8	31	C	1.5
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		3.4	J	4.4	2.9	J	3.3	1.8	J	2.1
PCB-51	Tetra		17		4.4	20		3.3	14		2.1
PCB-52	Tetra		310	C	4.2	300	C	2.8	220	C	1.5
PCB-53	Tetra		47		4.4	58		3.3	42		2.1
PCB-54	Tetra			U	1.2	1.7	J	3.1	1.1	J	1.9
PCB-55	Tetra		6.7	L	4	4.8		2.4	2.4		1.1
PCB-56	Tetra		75	C L	4	64	C	2.4	41	C	1.1
PCB-57	Tetra			U L	1.1	1.4	J	2.4	0.88	J	1.1
PCB-58	Tetra			U L	1.2		U	1.1	0.53	J	1.1
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		170	C L	4	150	C	2.4	91	C	1.1
PCB-62	Tetra			U	1.3		U	1.4		U	0.45
PCB-63	Tetra		6.8	L	4	6.2		2.4	3.3		1.1
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	1.2		U	1.2		U	0.44
PCB-66	Tetra		120	C L	4	110	C	2.4	69	C	1.1
PCB-67	Tetra		7	L	4	6.2		2.4	2.9		1.1
PCB-68	Tetra		4.5	L	4	3.2		2.4	1.5		1.1
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		2.9		4.2	2.9		2.8	2.7		1.5
PCB-74	Tetra		72	L	4	64		2.4	36		1.1
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		7.8	L	3.9	5.9		2.1	3.1		0.84
PCB-78	Tetra	PRC									
PCB-79	Tetra		2.7	J L	3.9	1.9	J	2.1	1.5		0.84
PCB-80	Tetra		3.5	L	3.9	1.9		2.1	0.84		0.84
PCB-81	Tetra		6.6	L	3.9	3.5		2.1	2.2		0.84

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010			LDW-Y3-SU-ENR-CC-S010			LDW-Y3-SU-ENR-CA-S010-BIO		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		31	J	37	26	J	35	34	J	51
PCB-2	Mono			U	1.6		U	1.8		U	3.4
PCB-3	Mono			U	1.7		U	2		U	3.7
PCB-4	Di		180		16	300		15	200		24
PCB-5	Di			U	3		U	3.3		U	7.3
PCB-6	Di		58		8.1	82		7.6	64		13
PCB-7	Di		7.1	J	8.1	10		7.6	8.8	J	13
PCB-8	Di		160		8.1	220		7.6	190		13
PCB-9	Di		13		8.1	14		7.6	13	J	13
PCB-10	Di		12	J	16	17		15	13	J	24
PCB-11	Di		2		4.3	6.5		4.1		UB	7.7
PCB-12	Di			U	1.6	2.4	J	4.1		U	4.4
PCB-13	Di		2.2	J	4.3	4.2		4.1		U	4.1
PCB-14	Di	PRC									
PCB-15	Di		17		4.3	24		4.1	29		7.7
PCB-16	Tri		83		4.4	110		4.2	130		7.8
PCB-17	Tri		180		4.4	220		4.2	220		7.8
PCB-18	Tri		390		4.4	500		4.2	490		7.8
PCB-19	Tri		61		6.8	85		6.4	240		11
PCB-20	Tri		130	C	2.9	130	C	2.8	160	C	5.5
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		63		2.9	75		2.8	81		5.5
PCB-23	Tri			U	1.2		U	1.1		U	2.3
PCB-24	Tri		18		4.4	22		4.2	23		7.8
PCB-25	Tri		36		2.9	34		2.8	43		5.5
PCB-26	Tri		63		2.9	55		2.8	74		5.5
PCB-27	Tri		15		4.4	18		4.2	19		7.8
PCB-28	Tri		220		2.9	210		2.8	280		5.5
PCB-29	Tri		2.2	J	2.9	2.4	J	2.8		U	2.2
PCB-30	Tri			U	1.4		U	2		U	3.3
PCB-31	Tri		210		2.9	230		2.8	270		5.5
PCB-32	Tri		130		4.4	150		4.2	160		7.8
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri		2.6	J	2.9	2.8		2.8		U	2.3
PCB-35	Tri		1.6	J	1.9		U	0.69		U	1.5
PCB-36	Tri	PRC									
PCB-37	Tri		16		1.9	21		1.9	26		3.8
PCB-38	Tri		2		1.9	2.3		1.9		U	1.4
PCB-39	Tri			U	0.73		U	0.69		U	1.5
PCB-40	Tetra		20		1.6	27		1.6	35		3.3
PCB-41	Tetra		90	C	1.5	110	C	1.5	150	C	3.1
PCB-42	Tetra		42	C	1.6	53	C	1.6	69	C	3.3
PCB-43	Tetra		130	C	1.6	150	C	1.6	210	C	3.3
PCB-44	Tetra		120		1.6	140		1.6	190		3.3
PCB-45	Tetra		36		2.2	46		2.1	57		4.3
PCB-46	Tetra		15		2.2	17		2.1	24		4.3
PCB-47	Tetra		42		1.6	51		1.6	64		3.3
PCB-48	Tetra		27	C	1.6	33	C	1.6	46	C	3.3
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		2	J	2.2	2.2		2.1	3.5	J	4.3
PCB-51	Tetra		12		2.2	15		2.1	20		4.3
PCB-52	Tetra		180	C	1.6	210	C	1.6	280	C	3.3
PCB-53	Tetra		40		2.2	47		2.1	61		4.3
PCB-54	Tetra		1.2	J	2	1.3	J	2		U	1.6
PCB-55	Tetra		1.7		1.2	2.3		1.2	2.7		2.5
PCB-56	Tetra		36	C	1.2	44	C	1.2	61	C	2.5
PCB-57	Tetra		0.64	J	1.2	0.99	J	1.2	1.5	J	2.5
PCB-58	Tetra		0.64	J	1.2	0.6	J	1.2		U	0.93
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		74	C	1.2	95	C	1.2	120	C	2.5
PCB-62	Tetra			U	0.64		U	0.47		U	1.2
PCB-63	Tetra		3		1.2	3.8		1.2	4.9		2.5
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.63		U	0.46		U	1.2
PCB-66	Tetra		54	C	1.2	69	C	1.2	88	C	2.5
PCB-67	Tetra		2.5		1.2	3.2		1.2	4.4		2.5
PCB-68	Tetra		1.2		1.2	1.6		1.2	2.7		2.5
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		1.9		1.6	3.8		1.6	3.7		3.3
PCB-74	Tetra		31		1.2	39		1.2	51		2.5
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		2.3		0.89	2.5		0.89	3.6		1.9
PCB-78	Tetra	PRC									
PCB-79	Tetra		1		0.89	1.2		0.89	2		1.9
PCB-80	Tetra		1		0.89	0.48	J	0.89	1.6	J	1.9
PCB-81	Tetra		1.5		0.89	1.7		0.89	3		1.9

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO		LDW-Y3-SU-ENR-CC-S010-BIO		LDW-Y3-SU-S010-LCB				
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		56		32	18	J	52		U	5.7
PCB-2	Mono			U	2.2		U	3.6		U	1.6
PCB-3	Mono		4.2	J	12		U	3.8		U	1.7
PCB-4	Di		920		16	140		27		U	9.9
PCB-5	Di			U	4.3		U	5.6		U	3.3
PCB-6	Di		380		11	61		17		U	3.4
PCB-7	Di		37		11	9.8	J	17		U	3.2
PCB-8	Di		780		11	190		17		U	3.4
PCB-9	Di		69		11	13	J	17		U	3.4
PCB-10	Di		51		16		U	8.4		U	6
PCB-11	Di		7.4		8.1		UB	11	4.3		4.5
PCB-12	Di		15		8.1		U	3.8		U	1.9
PCB-13	Di		13		8.1		U	3.6		U	1.8
PCB-14	Di	PRC									
PCB-15	Di		75		8.1	33		11		U	1.8
PCB-16	Tri		560		8.2	150		11		U	1.6
PCB-17	Tri		1000		8.2	250		11		U	1.8
PCB-18	Tri		2500		8.2	580		11		U	2
PCB-19	Tri		350		9.7	94		15		U	3.1
PCB-20	Tri		730	C	7.2	250	C	8.7		UC	0.85
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		370		7.2	120		8.7		U	0.79
PCB-23	Tri			U	2.4		U	4		U	0.83
PCB-24	Tri		91		8.2	31		11		U	1.4
PCB-25	Tri		210		7.2	57		8.7		U	0.84
PCB-26	Tri		430		7.2	100		8.7		U	0.82
PCB-27	Tri		91		8.2	21		11		U	1.4
PCB-28	Tri		1200		7.2	350		8.7		U	0.71
PCB-29	Tri		13		7.2		U	3.8		U	0.8
PCB-30	Tri			U	2.9		U	3.9		U	1.3
PCB-31	Tri		1300		7.2	410		8.7		U	0.81
PCB-32	Tri		710		8.2	210		11		U	1.6
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri		23		7.2		U	4		U	0.83
PCB-35	Tri		7.8	L	6.4	3.6	J L	6.7		U	0.54
PCB-36	Tri	PRC									
PCB-37	Tri		120	L	6.4	41	L	6.7		U	0.55
PCB-38	Tri		12	L	6.4	4.4	J L	6.7		U	0.51
PCB-39	Tri			U L	2		U L	2.9		U	0.54
PCB-40	Tetra		190	L	6.2	53	L	6		U	0.63
PCB-41	Tetra		830	C L	6.1	250	C L	5.7		UC	0.38
PCB-42	Tetra		410	C L	6.2	110	C L	6		UC	0.45
PCB-43	Tetra		1200	C L	6.2	330	C L	6		UC	0.51
PCB-44	Tetra		1100	L	6.2	300	L	6		U	0.56
PCB-45	Tetra		300	L	6.7	88	L	7.3		U	0.74
PCB-46	Tetra		120	L	6.7	36	L	7.3		U	0.76
PCB-47	Tetra		360	L	6.2	110	L	6	1.1	J	1.8
PCB-48	Tetra		240	C L	6.2	73	C L	6		UC	0.38
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra		13	L	6.7	6.4	J L	7.3		U	0.65
PCB-51	Tetra		89	L	6.7	34	L	7.3		U	0.62
PCB-52	Tetra		34	C L	6.2	450	C L	6	1.3	C,J	1.8
PCB-53	Tetra		300	L	6.7	96	L	7.3		U	0.66
PCB-54	Tetra		7.7	L	6.5		U L	2.4		U	0.48
PCB-55	Tetra		14	L	5.8	6.6	L	4.9	0.35		1.4
PCB-56	Tetra		320	C L	5.8	110	C L	4.9		UC	0.59
PCB-57	Tetra		7.1	L	5.8		U L	1.6		U	0.28
PCB-58	Tetra		5.2	J L	5.8		U L	1.6		U	0.28
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		680	C L	5.8	220	C L	4.9		UC	0.3
PCB-62	Tetra			U L	1.7		U L	2		U	0.37
PCB-63	Tetra		33	L	5.8	9.3	L	4.9		U	0.27
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U L	1.7		U L	1.9		U	0.37
PCB-66	Tetra		550	C L	5.8	160	C L	4.9		UC	0.27
PCB-67	Tetra		23	L	5.8	7.8	L	4.9		U	0.28
PCB-68	Tetra		16	L	5.8	3.7	J L	4.9		U	0.26
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		28	L	6.2	7.1	L	6	0.3	J	1.8
PCB-74	Tetra		310	L	5.8	94	L	4.9		U	0.28
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra		27	L	5.4	9.6	L	4		U	0.48
PCB-78	Tetra	PRC									
PCB-79	Tetra		10	L	5.4	3.2	J L	4		U	0.41
PCB-80	Tetra		11	L	5.4	3.7	L	4		U	0.19
PCB-81	Tetra		14	L	5.4	6.9	L	4		U	0.38

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-LBS-WAT-S010-SPME			LDW-Y3-IN-ENR+AC-CA-S010			LDW-Y3-IN-ENR+AC-CB-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono			U	13		U	6		U	6.6
PCB-2	Mono			U	3.7		U	1.7		U	1.8
PCB-3	Mono			U	4.1		U	1.8		U	1.9
PCB-4	Di			U	14	17		16	21		14
PCB-5	Di			U	5.4		U	3.3		U	2.9
PCB-6	Di			U	5.7	6.4	J	8.5	7.1	J	7.4
PCB-7	Di			U	5.7		U	3.1		U	2.7
PCB-8	Di			U	5.6	14		8.5	14		7.4
PCB-9	Di			U	5.5		U	3.2		U	2.8
PCB-10	Di			U	11		U	5.8		U	5.2
PCB-11	Di			UB	6.1		UB J	5.1		UB	4.2
PCB-12	Di			U	2.9		U	2		U	1.6
PCB-13	Di			U	2.9		U	2		U	1.7
PCB-14	Di	PRC									
PCB-15	Di			U	3.2	3.2	J	5.1	3.6	J	4.2
PCB-16	Tri			U	2.4	9.2		5.2	9.2		4.2
PCB-17	Tri			U	2.6	17		5.2	14		4.2
PCB-18	Tri			U	2.7	41		5.2	34		4.2
PCB-19	Tri			U	4.5	6.7	J	7.3	6.8		6.2
PCB-20	Tri			UC	1.2	13	C	3.9	12	C	3
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri			U	1.1	6.9		3.9	6.4		3
PCB-23	Tri			U	1.1		U	1.8		U	1.1
PCB-24	Tri			U	2	2.2	J	5.2	2.5	J	4.2
PCB-25	Tri			U	1.2	7.5		3.9	5.7		3
PCB-26	Tri			U	1.1	17		3.9	12		3
PCB-27	Tri			U	2	2.1	J	5.2	2.4	J	4.2
PCB-28	Tri			U	1	23		3.9	22		3
PCB-29	Tri			U	1.1		U	1.8		U	1.1
PCB-30	Tri			U	1.9		U	0.98		U	1.2
PCB-31	Tri			U	1.1	22		3.9	20		3
PCB-32	Tri			U	2.2	9.2		5.2	6.9		4.2
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	1.2		U	1.9		U	1.1
PCB-35	Tri			U	0.75		U	1.4		U	0.79
PCB-36	Tri	PRC									
PCB-37	Tri			U	0.74	3.5		3.1	3.1		2.2
PCB-38	Tri			U	0.69		U	1.4		U	0.8
PCB-39	Tri			U	0.72		U	1.4		U	0.76
PCB-40	Tetra			U	1.3	5.8		2.8	4.5		1.9
PCB-41	Tetra			UC	0.78	25	C	2.7	18	C	1.8
PCB-42	Tetra			UC	0.95	13	C	2.8	8.8	C	1.9
PCB-43	Tetra			UC	1	52	C	2.8	33	C	1.9
PCB-44	Tetra			U	1.2	42		2.8	30		1.9
PCB-45	Tetra			U	1.5	7.7		3.3	5.3		2.4
PCB-46	Tetra			U	1.6	3.6		3.3	2.4		2.4
PCB-47	Tetra			U	0.98	14		2.8	11		1.9
PCB-48	Tetra			UC	0.81	6.5	C	2.8	5.2	C	1.9
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra			U	1.3	1.6	J	3.3		U	0.81
PCB-51	Tetra			U	1.3	3.8		3.3	2.7		2.4
PCB-52	Tetra		0.86	C,J	2.2	86	C	2.8	56	C	1.9
PCB-53	Tetra			U	1.4	11		3.3	7.5		2.4
PCB-54	Tetra			U	1		U	0.88		U	0.59
PCB-55	Tetra		0.094		1.6	1.2		2.4	1.2		1.5
PCB-56	Tetra			UC	1.2	9.5	C	2.4	7.6	C	1.5
PCB-57	Tetra			U	0.55		U	0.63		U	0.38
PCB-58	Tetra			U	0.57		U	0.64		U	0.38
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra			UC	0.6	25	C	2.4	19	C	1.5
PCB-62	Tetra			U	0.79		U	0.82		U	0.53
PCB-63	Tetra			U	0.55	1.1	J	2.4	1.1	J	1.5
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.79		U	0.79		U	0.51
PCB-66	Tetra			UC	0.53	20	C	2.4	15	C	1.5
PCB-67	Tetra			U	0.54	1.2	J	2.4	1.2	J	1.5
PCB-68	Tetra			U	0.53	1.2	J	2.4	0.8	J	1.5
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		0.59	J	2.2	1.3	J	2.8	0.79	J	1.9
PCB-74	Tetra			U	0.54	9.8		2.4	7.8		1.5
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra			U	0.86		U	0.97	0.82	J	1.2
PCB-78	Tetra	PRC									
PCB-79	Tetra			U	0.81		U	0.92		U	0.43
PCB-80	Tetra			U	0.35		U	0.46		U	0.25
PCB-81	Tetra			U	0.77		U	0.91	0.83	J	1.2

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010			LDW-Y3-IN-ENR-CB-S010			LDW-Y3-IN-ENR-CC-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono			U	5.8		U	6.9		U	14
PCB-2	Mono			U	1.6		U	1.7		U	4.2
PCB-3	Mono			U	1.7		U	1.8		U	4.4
PCB-4	Di		13	J	15	22		15	37		17
PCB-5	Di			U	2.8		U	3		U	5.8
PCB-6	Di		4.2	J	7.9	7	J	7.7	13		9.8
PCB-7	Di			U	2.6		U	2.8		U	5.4
PCB-8	Di		10		7.9	20		7.7	26		9.8
PCB-9	Di			U	2.7		U	2.9		U	5.6
PCB-10	Di			U	5.1		U	5.6		U	9.7
PCB-11	Di			UB J	4.6	0.65		4.9		UB	6
PCB-12	Di			U	1.6		U	1.9		U	3.5
PCB-13	Di			U	1.7		U	1.9		U	3.6
PCB-14	Di	PRC									
PCB-15	Di		2.6	J	4.6	5.3		4.9	8.3		6
PCB-16	Tri		5.1		4.7	9.5		5	13		6.1
PCB-17	Tri		10		4.7	17		5	26		6.1
PCB-18	Tri		25		4.7	43		5	64		6.1
PCB-19	Tri		4.7	J	6.7	7.6		6.6	14		8.4
PCB-20	Tri		9.9	C	3.5	17	C	4.1	24	C	4.5
PCB-21	Tri			C020			C020			C020	
PCB-22	Tri		5.5		3.5	11		4.1	14		4.5
PCB-23	Tri			U	0.89		U	1.7		U	2
PCB-24	Tri			U	1.4	2.9	J	5	6.1		6.1
PCB-25	Tri		3.9		3.5	8.5		4.1	13		4.5
PCB-26	Tri		8.7		3.5	19		4.1	27		4.5
PCB-27	Tri			U	1.3	3.1	J	5	4.6	J	6.1
PCB-28	Tri		17		3.5	31		4.1	42		4.5
PCB-29	Tri			U	0.91		U	1.7		U	2.1
PCB-30	Tri			U	1.3		U	1.5		U	3.2
PCB-31	Tri		16		3.5	29		4.1	40		4.5
PCB-32	Tri		6.9		4.7	9.6		5	19		6.1
PCB-33	Tri			C020			C020			C020	
PCB-34	Tri			U	0.93		U	1.8		U	2.1
PCB-35	Tri			U	0.7		U	1.6		U	1.6
PCB-36	Tri	PRC									
PCB-37	Tri		2.7		2.7	6.1		3.7	9.9		3.5
PCB-38	Tri			U	0.71		U	1.6		U	1.6
PCB-39	Tri			U	0.68		U	1.5		U	1.5
PCB-40	Tetra		3.8		2.4	7.9		3.6	8.9		3.1
PCB-41	Tetra		16	C	2.3	38	C	3.5	37	C	3
PCB-42	Tetra		8.3	C	2.4	18	C	3.6	20	C	3.1
PCB-43	Tetra		30	C	2.4	70	C	3.6	80	C	3.1
PCB-44	Tetra		24		2.4	56		3.6	65		3.1
PCB-45	Tetra		4.7		2.9	9.4		3.8	14		3.8
PCB-46	Tetra		2.3	J	2.9	4.3		3.8	6		3.8
PCB-47	Tetra		11		2.4	24		3.6	27		3.1
PCB-48	Tetra		4	C	2.4	8.6	C	3.6	9.4	C	3.1
PCB-49	Tetra			C043			C043			C043	
PCB-50	Tetra			U	0.95		U	1.3		U	1.7
PCB-51	Tetra		2.2	J	2.9	3.7	J	3.8	5.1		3.8
PCB-52	Tetra		46	C	2.4	120	C	3.6	130	C	3.1
PCB-53	Tetra		7.2		2.9	14		3.8	18		3.8
PCB-54	Tetra			U	0.71		U	0.99		U	1.3
PCB-55	Tetra		1.2		2.1	1.9		3.4	3.4		2.6
PCB-56	Tetra		8	C	2.1	19	C	3.4	17	C	2.6
PCB-57	Tetra			U	0.5		U	0.88		U	0.87
PCB-58	Tetra			U	0.51		U	0.9		U	0.89
PCB-59	Tetra			C042			C042			C042	
PCB-60	Tetra			C056			C056			C056	
PCB-61	Tetra		17	C	2.1	44	C	3.4	40	C	2.6
PCB-62	Tetra			U	0.66		U	1		U	1.2
PCB-63	Tetra		1.2	J	2.1	2.2	J	3.4	2.3	J	2.6
PCB-64	Tetra			C041			C041			C041	
PCB-65	Tetra			U	0.63		U	0.97		U	1.1
PCB-66	Tetra		14	C	2.1	37	C	3.4	33	C	2.6
PCB-67	Tetra		0.92	J	2.1	2.7	J	3.4	2.7		2.6
PCB-68	Tetra		1.1	J	2.1	2.4	J	3.4	2.1	J	2.6
PCB-69	Tetra			C052			C052			C052	
PCB-70	Tetra			C061			C061			C061	
PCB-71	Tetra			C041			C041			C041	
PCB-72	Tetra			C041			C041			C041	
PCB-73	Tetra		0.61	J	2.4	1.7		3.6	2.3		3.1
PCB-74	Tetra		7.3		2.1	18		3.4	16		2.6
PCB-75	Tetra			C048			C048			C048	
PCB-76	Tetra			C066			C066			C066	
PCB-77	Tetra			U	0.54	2.6	J L	3.4		U	1.1
PCB-78	Tetra	PRC									
PCB-79	Tetra			U	0.5		U L	1.2		U	1
PCB-80	Tetra		0.59	J	1.8		U L	0.72	1	J	2.2
PCB-81	Tetra			U	0.49	1.9	J L	3.4		U	1.1

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CD-S010		
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-1	Mono	
PCB-2	Mono			U	2.1
PCB-3	Mono			U	2.2
PCB-4	Di		27		13
PCB-5	Di			U	3.2
PCB-6	Di		7.2		6.7
PCB-7	Di			U	2.9
PCB-8	Di		16		6.7
PCB-9	Di			U	3
PCB-10	Di			U	5.6
PCB-11	Di		0.58		4.2
PCB-12	Di			U	2
PCB-13	Di			U	2
PCB-14	Di	PRC			
PCB-15	Di		4.9		4.2
PCB-16	Tri		8.3		4.3
PCB-17	Tri		17		4.3
PCB-18	Tri		43		4.3
PCB-19	Tri		7.8		5.8
PCB-20	Tri		16	C	3.4
PCB-21	Tri			C020	
PCB-22	Tri		10		3.4
PCB-23	Tri			U	1.2
PCB-24	Tri		3.9	J	4.3
PCB-25	Tri		9.7		3.4
PCB-26	Tri		19		3.4
PCB-27	Tri		3.5	J	4.3
PCB-28	Tri		33		3.4
PCB-29	Tri			U	1.3
PCB-30	Tri			U	1.8
PCB-31	Tri		30		3.4
PCB-32	Tri		11		4.3
PCB-33	Tri			C020	
PCB-34	Tri			U	1.3
PCB-35	Tri			U	1.1
PCB-36	Tri	PRC			
PCB-37	Tri		6.2		2.9
PCB-38	Tri			U	1.1
PCB-39	Tri			U	1
PCB-40	Tetra		6.4		2.7
PCB-41	Tetra		32	C	2.6
PCB-42	Tetra		15	C	2.7
PCB-43	Tetra		58	C	2.7
PCB-44	Tetra		47		2.7
PCB-45	Tetra		9		3
PCB-46	Tetra		4.3		3
PCB-47	Tetra		21		2.7
PCB-48	Tetra		7.7	C	2.7
PCB-49	Tetra			C043	
PCB-50	Tetra		2.5	J	3
PCB-51	Tetra		4		3
PCB-52	Tetra		98	C	2.7
PCB-53	Tetra		12		3
PCB-54	Tetra			U	0.98
PCB-55	Tetra		1.9		2.5
PCB-56	Tetra		15	C	2.5
PCB-57	Tetra		1.1	J	2.5
PCB-58	Tetra			U	0.8
PCB-59	Tetra			C042	
PCB-60	Tetra			C056	
PCB-61	Tetra		36	C	2.5
PCB-62	Tetra			U	0.96
PCB-63	Tetra		1.8	J	2.5
PCB-64	Tetra			C041	
PCB-65	Tetra			U	0.92
PCB-66	Tetra		29	C	2.5
PCB-67	Tetra		2	J	2.5
PCB-68	Tetra		1.7	J	2.5
PCB-69	Tetra			C052	
PCB-70	Tetra			C061	
PCB-71	Tetra			C041	
PCB-72	Tetra			C041	
PCB-73	Tetra		1.3		2.7
PCB-74	Tetra		15		2.5
PCB-75	Tetra			C048	
PCB-76	Tetra			C066	
PCB-77	Tetra		1.6	J L	2.3
PCB-78	Tetra	PRC			
PCB-79	Tetra			U L	0.76
PCB-80	Tetra		0.9	J L	2.3
PCB-81	Tetra		1.3	J L	2.3

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010		LDW-Y3-SC-ENR+AC-CB-S010		LDW-Y3-SC-ENR+AC-CC-S010				
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		9.6	L	2.4	12	L	2.9	8.9		1.2
PCB-83	Penta		5.1	C L	2.4	5.7	C L	2.9	3.5	C	1.2
PCB-84	Penta		53	C L	2.4	64	C L	2.9	36	C	1.3
PCB-85	Penta		13	C L	2.4	17	C L	2.9	9.6	C	1.2
PCB-86	Penta			U L	1.5		U L	2		U	1.2
PCB-87	Penta		30	C L	2.4	38	C L	2.9	22	C	1.2
PCB-88	Penta			U C L	1.3		U C L	1.2		U C	1.1
PCB-89	Penta		2	J L	2.5	2.4	J L	2.9		U	1.2
PCB-90	Penta		110	C L	2.4	130	C L	2.9	75	C	1.2
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U L	1.3		U L	1.2		U	1.1
PCB-94	Penta		1.7	J L	2.5		U L	1.3		U	1.2
PCB-95	Penta		150	L	2.5	160	L	2.9	100		1.5
PCB-96	Penta		1.9	J L	2.4	2	J L	2.9	1.5		1.3
PCB-97	Penta		27	L	2.4	37	L	2.9	21		1.2
PCB-98	Penta			U C L	1.3		U C L	1.2		U C	1.2
PCB-99	Penta		51	L	2.4	55	L	2.9	28		1.2
PCB-100	Penta		6.1	L	2.5	3.2	L	2.9	2		1.5
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		5.1	L	2.5	4.6	L	2.9	2.4		1.5
PCB-104	Penta	PRC									
PCB-105	Penta		20	L	2.2	27	L	2.9	12		1
PCB-106	Penta		59	C L	2.2	72	C L	2.9	34	C	1
PCB-107	Penta		5.3	C L	2.2	6.3	C L	2.9	3.1	C	1
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	1		U L	1.4		U	0.7
PCB-110	Penta		86	L	2.4	110	L	2.9	58		1.2
PCB-111	Penta		1.9	C,J L	2.3		U C L	1.4	1.1	C	1.1
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	1.1		U L	1.4		U	0.75
PCB-114	Penta		2	J L	2.2	1.9	J L	2.9		U	0.51
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		4	L	2.4	3.9	L	2.9	2.3		1.2
PCB-120	Penta			U L	0.88		U L	1.2		U	0.54
PCB-121	Penta	PRC									
PCB-122	Penta			U L	1.1		U L	1.2		U	0.54
PCB-123	Penta		1.8	J L	2.2	2.2	J L	2.9		U	0.57
PCB-124	Penta		4	L	2.2	4.6	L	2.9	2		1
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	1.1		U L	1.3		U L	0.48
PCB-127	Penta			U L	1.1		U L	1.3		U L	0.45
PCB-128	Hexa		8.3	C L	1.9	13	C L	2.9	3.9	C L	0.61
PCB-129	Hexa		3.2	L	2	5.8	L	2.9	1.9	L	0.66
PCB-130	Hexa		4.3	L	2	6.8	L	2.9	1.9	L	0.66
PCB-131	Hexa			U B C L	2		U B C L	2.9		U B C L	0.7
PCB-132	Hexa		26	C L	2	36	C L	2.9	12	C L	0.7
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		6.3	C L	2	8	C L	2.9	3.4	C L	0.75
PCB-135	Hexa		16	L	2	21	L	2.9	6.5	L	0.75
PCB-136	Hexa		19	L	2	28	L	2.9	8.4	L	0.67
PCB-137	Hexa		4.2	L	2	3.3	L	2.9	1.4	L	0.66
PCB-138	Hexa		73	C L	2	100	C L	2.9	30	C L	0.66
PCB-139	Hexa		100	C L	2	120	C L	2.9	40	C L	0.75
PCB-140	Hexa			U L	1.2		U L	1.5		U L	0.58
PCB-141	Hexa		15	L	2	19	L	2.9	6	L	0.66
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		6.4	L	2	8.4	L	2.9	2.8	L	0.75
PCB-145	Hexa			U L	0.85		U L	1.6		U L	0.38
PCB-146	Hexa		15	C L	2	20	C L	2.9	5.4	C L	0.66
PCB-147	Hexa		6.6	L	2	3	L	2.9	0.67	J L	0.75
PCB-148	Hexa			U L	1		U L	1.9		U L	0.6
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	0.83		U L	1.6		U L	0.37
PCB-151	Hexa		33	L	2	40	L	2.9	13	L	0.75
PCB-152	Hexa			U L	0.84		U L	1.6		U L	0.38
PCB-153	Hexa		88	L	2	100	L	2.9	31	L	0.66
PCB-154	Hexa		8	L	2	4.3	L	2.9	1.7	L	0.75
PCB-155	Hexa	PRC									
PCB-156	Hexa		4.6	L	1.9	7.4	L	2.9	1.8	L	0.57
PCB-157	Hexa		1.5	J L	1.9		U L	1.2		U L	0.33
PCB-158	Hexa		7	C L	2	10	C L	2.9	2.6	C L	0.66
PCB-159	Hexa			U L	0.81	2.2	J L	2.9		U L	0.32
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010-LONG			LDW-Y3-SC-ENR+AC-CB-S010-LONG			LDW-Y3-SC-ENR+AC-CC-S010-LONG		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		27	L	8.5	18	L	4.1	30	L	8
PCB-83	Penta		14	C L	8.5	7.1	C L	4.1	14	C L	8
PCB-84	Penta		140	C L	8	79	C L	4	140	C L	7.4
PCB-85	Penta		36	C L	8.5	18	C L	4.1	41	C L	8
PCB-86	Penta			U L	4.9		U L	3.6		U L	5.1
PCB-87	Penta		87	C L	8.5	46	C L	4.1	90	C L	8
PCB-88	Penta			U C L	3.9		U C L	1.8		U C L	2.8
PCB-89	Penta			U L	4.2		U L	2.8	4.9	J L	6.8
PCB-90	Penta		290	C L	8.5	160	C L	4.1	310	C L	8
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U L	4.1		U L	1.9		U L	2.9
PCB-94	Penta			U L	4.3		U L	1.9		U L	3
PCB-95	Penta		370	L	7.5	180	L	3.9	310	L	6.8
PCB-96	Penta		5.4	J L	8		U L	1.4	5.5	J L	7.4
PCB-97	Penta		86	L	8.5	44	L	4.1	83	L	8
PCB-98	Penta			U C L	4		U C L	2		U C L	3
PCB-99	Penta		120	L	8.5	65	L	4.1	130	L	8
PCB-100	Penta		9.6	L	7.5	5.1	L	3.9	7.9	L	6.8
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		11	L	7.5	5.6	L	3.9	9	L	6.8
PCB-104	Penta	PRC									
PCB-105	Penta		70	L	9.7	35	L	4.3	72	L	9.4
PCB-106	Penta		190	C L	9.7	97	C L	4.3	200	C L	9.4
PCB-107	Penta		17	C L	9.7	9.7	C L	4.3	16	C L	9.4
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	3.4		U L	2.2		U L	3.1
PCB-110	Penta		250	L	8.5	130	L	4.1	260	L	8
PCB-111	Penta		7	C,J L	9.1	3.2	C,J L	4.2	6.7	C,J L	8.7
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	3.6	62	L	4.1		U L	3.3
PCB-114	Penta		6.7	J L	9.7		U L	1.7	6.3	J L	9.4
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		9	L	8.5	3.8	J L	4.1	8.7	L	8
PCB-120	Penta			U L	3.5		U L	2.1		U L	3.3
PCB-121	Penta	PRC									
PCB-122	Penta			U L	4.5		U L	1.8		U L	3.1
PCB-123	Penta			U L	5.1		U L	1.8	4.8	J L	9.4
PCB-124	Penta		14	L	9.7	5.9	L	4.3	10	L	9.4
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	5.6		U L	1.9		U L	3.9
PCB-127	Penta			U L	5.6		U L	1.9		U L	3.6
PCB-128	Hexa		60	C L	14	22	C L	5.2	60	C L	15
PCB-129	Hexa		25	L	13	8.8	L	5.1	22	L	14
PCB-130	Hexa		24	L	13	13	L	5.1	30	L	14
PCB-131	Hexa			U B C L	13		U B C L	4.9		U B C L	13
PCB-132	Hexa		130	C L	13	47	C L	4.9	130	C L	13
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		34	C L	12	15	C L	4.8	31	C L	13
PCB-135	Hexa		84	L	12	29	L	4.8	64	L	13
PCB-136	Hexa		130	L	13	43	L	5	130	L	14
PCB-137	Hexa		19	L	13	6.8	L	5.1	18	L	14
PCB-138	Hexa		410	C L	13	170	C L	5.1	400	C L	14
PCB-139	Hexa		460	C L	12	190	C L	4.8	430	C L	13
PCB-140	Hexa			U L	6.9		U L	3.1	7.3	J L	13
PCB-141	Hexa		83	L	13	33	L	5.1	76	L	14
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		31	L	12	11	L	4.8	34	L	13
PCB-145	Hexa			U L	7.9		U L	2.2		U L	6.6
PCB-146	Hexa		74	C L	13	28	C L	5.1	76	C L	14
PCB-147	Hexa		17	L	12	5.7	L	4.8	12	J L	13
PCB-148	Hexa			U L	8.4		U L	2.9		U L	8.3
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	7.7		U L	2.1		U L	6.5
PCB-151	Hexa		160	L	12	57	L	4.8	140	L	13
PCB-152	Hexa			U L	7.9		U L	2.2		U L	6.7
PCB-153	Hexa		450	L	13	190	L	5.1	490	L	14
PCB-154	Hexa		29	L	12	9.3	L	4.8	33	L	13
PCB-155	Hexa	PRC									
PCB-156	Hexa		34	L	15	14	L	5.4	34	L	17
PCB-157	Hexa		11	J L	15	5	J L	5.4	8.8	J L	17
PCB-158	Hexa		42	C L	13	16	C L	5.1	38	C L	14
PCB-159	Hexa		12	J L	15	3.6	J L	5.4	12	J L	17
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP			LDW-Y3-SC-ENR-CA-S010			LDW-Y3-SC-ENR-CC-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		24	L	5.3	8.7	L	2.4	9.5	L	2
PCB-83	Penta		12	C L	5.3	4.2	C L	2.4	4.9	C L	2
PCB-84	Penta		130	C L	5.2	48	C L	2.5	52	C L	2.1
PCB-85	Penta		32	C L	5.3	11	C L	2.4	14	C L	2
PCB-86	Penta			U L	2.4		U L	1.2		U L	1.2
PCB-87	Penta		74	C L	5.3	26	C L	2.4	31	C L	2
PCB-88	Penta			U C L	2.3		U C L	1.1		U C L	1.3
PCB-89	Penta		4.2	J L	5.1	2.4	J L	2.6	2	J L	2.1
PCB-90	Penta		250	C L	5.3	87	C L	2.4	100	C L	2
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U L	2.3		U L	1.2		U L	0.72
PCB-94	Penta			U L	2.5		U L	1.2	1.7	J L	2.1
PCB-95	Penta		250	L	5.1	100	L	2.6	120	L	2.1
PCB-96	Penta		4.7	J L	5.2		U L	0.85	1.8	J L	2.1
PCB-97	Penta		67	L	5.3	25	L	2.4	30	L	2
PCB-98	Penta			U C L	2.5		U C L	1.2		U C L	0.85
PCB-99	Penta		100	L	5.3	34	L	2.4	41	L	2
PCB-100	Penta		8	L	5.1	3.1	L	2.6	2.6	L	2.1
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		8.5	L	5.1	2.5	J L	2.6	3.1	L	2.1
PCB-104	Penta	PRC									
PCB-105	Penta		45	L	5.4	15	L	2.2	19	L	2
PCB-106	Penta		120	C L	5.4	39	C L	2.2	55	C L	2
PCB-107	Penta		11	C L	5.4	3.4	C L	2.2	4.8	C L	2
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	1.7		U L	0.87		U L	0.86
PCB-110	Penta		210	L	5.3	73	L	2.4	87	L	2
PCB-111	Penta		3.9	C,J L	5.3	1.3	C,J L	2.3	1.3	C,J L	2
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	1.8		U L	0.95		U L	0.94
PCB-114	Penta		3.4	J L	5.4	1.2	J L	2.2	1.5	J L	2
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		7.8	L	5.3	2.8	L	2.4	2.7	L	2
PCB-120	Penta			U L	1.5		U L	0.71		U L	0.73
PCB-121	Penta	PRC									
PCB-122	Penta			U L	1.6		U L	0.7	1.3	J L	2
PCB-123	Penta		2.8	J L	5.4	1	J L	2.2	1.2	J L	2
PCB-124	Penta		8.1	L	5.4	2.4	L	2.2	3.3	L	2
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	1.9		U L	0.72		U L	0.93
PCB-127	Penta			U L	1.8		U L	0.68		U L	0.78
PCB-128	Hexa		25	C L	5.9	5.2	C L	1.7	8.3	C L	1.8
PCB-129	Hexa		8.4	L	5.9	2	L	1.8	2.9	L	1.9
PCB-130	Hexa		13	L	5.9	3.3	L	1.8	4	L	1.9
PCB-131	Hexa			U B C L	5.8		U B C,J L	1.8		U B C L	1.9
PCB-132	Hexa		69	C L	5.8	13	C L	1.8	19	C L	1.9
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		15	C L	5.7	3.8	C L	1.9	5	C L	1.9
PCB-135	Hexa		34	L	5.7	7.4	L	1.9	13	L	1.9
PCB-136	Hexa		54	L	5.8	12	L	1.8	17	L	1.9
PCB-137	Hexa		7.6	L	5.9	1.4	J L	1.8	2.2	L	1.9
PCB-138	Hexa		180	C L	5.9	38	C L	1.8	62	C L	1.9
PCB-139	Hexa		210	C L	5.7	46	C L	1.9	72	C L	1.9
PCB-140	Hexa		4.1	J L	5.7		U L	0.72		U L	0.94
PCB-141	Hexa		35	L	5.9	6.7	L	1.8	10	L	1.9
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		15	L	5.7	3.4	L	1.9	4.1	L	1.9
PCB-145	Hexa			U L	2.9		U L	0.73		U L	0.66
PCB-146	Hexa		33	C L	5.9	6.8	C L	1.8	9.9	C L	1.9
PCB-147	Hexa		7.5	L	5.7	1.4	J L	1.9	1.8	J L	1.9
PCB-148	Hexa			U L	3.7		U L	0.99		U L	0.78
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	2.9		U L	0.72		U L	0.66
PCB-151	Hexa		67	L	5.7	16	L	1.9	22	L	1.9
PCB-152	Hexa			U L	2.9		U L	0.73		U L	0.61
PCB-153	Hexa		200	L	5.9	43	L	1.8	59	L	1.9
PCB-154	Hexa		14	L	5.7	3.7	L	1.9	3.2	L	1.9
PCB-155	Hexa	PRC									
PCB-156	Hexa		13	L	6	2.7	L	1.6	4.1	L	1.8
PCB-157	Hexa			U L	2.8		U L	0.56	1.1	J L	1.8
PCB-158	Hexa		19	C L	5.9	4.2	C L	1.8	5.9	C L	1.9
PCB-159	Hexa		6.5	L	6	1.5	J L	1.6	1.4	J L	1.8
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010		LDW-Y3-SC-ENR-CA-S010-LONG			LDW-Y3-SC-ENR-CC-S010-LONG			
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		8.3	L	1.8	5.7		1.2	4		0.85
PCB-83	Penta		3.4	C L	1.8	2.7	C	1.2	1.7	C	0.85
PCB-84	Penta		40	C L	1.9	31	C	1.3	23	C	0.95
PCB-85	Penta		9.1	C L	1.8	7.2	C	1.2	5.2	C	0.85
PCB-86	Penta			U L	0.82		U	0.69		U	0.49
PCB-87	Penta		23	C L	1.8	17	C	1.2	12	C	0.85
PCB-88	Penta			UC	0.57		UC	0.5		UC	0.31
PCB-89	Penta		1.3	J	1.9	1.2	J	1.4	0.94	J	1
PCB-90	Penta		76	C L	1.8	56	C	1.2	42	C	0.85
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.59		U	0.51		U	0.32
PCB-94	Penta			U	0.63	0.7	J	1.4		U	0.34
PCB-95	Penta		84		1.9	69		1.4	56		1
PCB-96	Penta		1.6	J L	1.9	1	J	1.3	0.77	J	0.94
PCB-97	Penta		21	L	1.8	16		1.2	11		0.85
PCB-98	Penta			UC	0.62		UC	0.54		UC	0.33
PCB-99	Penta		30	L	1.8	23		1.2	16		0.85
PCB-100	Penta		2.3		1.9	1.3	J	1.4	0.98	J	1
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		2.5		1.9	1.9		1.4	1.3		1
PCB-104	Penta	PRC									
PCB-105	Penta		12	L	1.7	8		0.98	6		0.7
PCB-106	Penta		33	C L	1.7	24	C	0.98	17	C	0.7
PCB-107	Penta		2.9	C L	1.7	1.9	C	0.98	1.4	C	0.7
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	0.57		U	0.48		U	0.34
PCB-110	Penta		63	L	1.8	48		1.2	36		0.85
PCB-111	Penta		1.3	C,J L	1.8	0.95	C,J	1.1	0.92	C	0.77
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	0.63		U	0.53		U	0.38
PCB-114	Penta			U L	0.57	0.59	J	0.98	0.51	J	0.7
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		2.2	L	1.8	1.6		1.2	1.3		0.85
PCB-120	Penta			U L	0.48		U	0.36		U	0.25
PCB-121	Penta	PRC									
PCB-122	Penta			U L	0.57	0.5	J	0.98		U	0.22
PCB-123	Penta		0.97	J L	1.7	0.68	J	0.98	0.45	J	0.7
PCB-124	Penta		2	L	1.7	1.3		0.98	1		0.7
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	0.55		U L	0.32		U	0.18
PCB-127	Penta			U L	0.58		U L	0.27		U	0.19
PCB-128	Hexa		4.6	C L	1.5	2.4	C L	0.59	1.6	C	0.39
PCB-129	Hexa		2.1	L	1.5	0.89	L	0.64	0.64		0.43
PCB-130	Hexa		2.7	L	1.5	1.6	L	0.64	0.84		0.43
PCB-131	Hexa			UB C L	1.5		UB C L	0.68		UB C	0.46
PCB-132	Hexa		14	C L	1.5	6.4	C L	0.68	5	C	0.46
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		3.7	C L	1.6	1.8	C L	0.73	1.2	C	0.5
PCB-135	Hexa		8.2	L	1.6	4.2	L	0.73	3.4		0.5
PCB-136	Hexa		10	L	1.5	5.4	L	0.65	3.9		0.43
PCB-137	Hexa		2.4	L	1.5	0.72	L	0.64	0.67		0.43
PCB-138	Hexa		39	C L	1.5	19	C L	0.64	13	C	0.43
PCB-139	Hexa		49	C L	1.6	26	C L	0.73	19	C	0.5
PCB-140	Hexa			U L	0.67		U L	0.35	0.32	J	0.5
PCB-141	Hexa		7.4	L	1.5	3.5	L	0.64	2.4		0.43
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		3	L	1.6	1.4	L	0.73	1.1		0.5
PCB-145	Hexa			U L	0.47		U L	0.27		U	0.14
PCB-146	Hexa		6.9	C L	1.5	3.4	C L	0.64	2.2	C	0.43
PCB-147	Hexa		1.3	J L	1.6	0.59	J L	0.73	0.6		0.5
PCB-148	Hexa			U L	0.63		U L	0.4		U	0.21
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	0.47		U L	0.27		U	0.14
PCB-151	Hexa		16	L	1.6	8.5	L	0.73	5.7		0.5
PCB-152	Hexa			U L	0.47		U L	0.28		U	0.14
PCB-153	Hexa		43	L	1.5	21	L	0.64	15		0.43
PCB-154	Hexa		2.8	L	1.6	1.3	L	0.73	0.92		0.5
PCB-155	Hexa	PRC									
PCB-156	Hexa		2.6	L	1.4	1.2	L	0.55	0.7		0.36
PCB-157	Hexa		0.83	J L	1.4	0.38	J L	0.55		U	0.16
PCB-158	Hexa		3.9	C L	1.5	1.8	C L	0.64	1.3	C	0.43
PCB-159	Hexa		0.99	J L	1.4	0.37	J L	0.55	0.3	J	0.36
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG			LDW-Y3-SC-ENR-S010-DEP			LDW-Y3-SU-ENR+AC-CA-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		5.9	L	1.6	7.4	L	1.8	7.1		0.82
PCB-83	Penta		3	C L	1.6	3.7	C L	1.8	4.4	C	0.82
PCB-84	Penta		35	C	1.7	41	C L	1.9	52	C	0.9
PCB-85	Penta		7.9	C L	1.6	9.3	C L	1.8	8.8	C	0.82
PCB-86	Penta			U L	0.99		U L	1.2		U	0.37
PCB-87	Penta		19	C L	1.6	24	C L	1.8	21	C	0.82
PCB-88	Penta			UC	1		UC L	1.5		UC	0.4
PCB-89	Penta		1.5	J	1.8	1.8	J L	2.1	1.8		1
PCB-90	Penta		61	C L	1.6	76	C L	1.8	88	C	0.82
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.58		U L	0.85		U	0.23
PCB-94	Penta			U	0.69		U L	1	0.95	J	1
PCB-95	Penta		91		1.8	110	L	2.1	130		1
PCB-96	Penta		1.4	J	1.7		U L	0.59	1.4		0.89
PCB-97	Penta		18	L	1.6	22	L	1.8	26		0.82
PCB-98	Penta			UC	0.69		UC L	1		UC	0.27
PCB-99	Penta		25	L	1.6	31	L	1.8	37		0.82
PCB-100	Penta		1.9		1.8	3.3	L	2.1	1.6		1
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		2.2		1.8	3.1	L	2.1	3.5		1
PCB-104	Penta	PRC									
PCB-105	Penta		12	L	1.3	12	L	1.5	10		0.67
PCB-106	Penta		31	C L	1.3	36	C L	1.5	34	C	0.67
PCB-107	Penta		2.4	C L	1.3	3.2	C L	1.5	3.3	C	0.67
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	0.7		U L	0.87		U	0.26
PCB-110	Penta		57	L	1.6	67	L	1.8	74		0.82
PCB-111	Penta		1	C,J L	1.4	1.6	C L	1.6	0.82	C	0.74
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	0.76		U L	0.95		U	0.28
PCB-114	Penta		0.91	J L	1.3	1.3	J L	1.5	0.84		0.67
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		2	L	1.6	2.4	L	1.8	3.3		0.82
PCB-120	Penta			U L	0.52		U L	0.63	0.4	J	0.67
PCB-121	Penta	PRC									
PCB-122	Penta		0.59	J L	1.3		U L	0.55	0.42	J	0.67
PCB-123	Penta		0.95	J L	1.3	1	J L	1.5	0.64	J	0.67
PCB-124	Penta		1.5	L	1.3	1.8	L	1.5	1.5		0.67
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	0.36		U L	0.51		U	0.18
PCB-127	Penta			U L	0.34		U L	0.47		U	0.17
PCB-128	Hexa		3.3	C L	0.86	3.8	C L	0.87	2.7	C	0.39
PCB-129	Hexa		1.1	L	0.92	1.5	L	0.94	0.89		0.42
PCB-130	Hexa		1.7	L	0.92	1.9	L	0.94	1.6		0.42
PCB-131	Hexa			UB C L	0.97		UB C L	1		UB C	0.45
PCB-132	Hexa		8.1	C L	0.97	9.5	C L	1	8.3	C	0.45
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		2.1	C L	1	3	C L	1.1	2.2	C	0.49
PCB-135	Hexa		5.8	L	1	7.1	L	1.1	6		0.49
PCB-136	Hexa		8	L	0.93	8.3	L	0.95	6.9		0.43
PCB-137	Hexa		0.82	J L	0.92	1.1	L	0.94	0.87		0.42
PCB-138	Hexa		25	C L	0.92	28	C L	0.94	22	C	0.42
PCB-139	Hexa		32	C L	1	39	C L	1.1	31	C	0.49
PCB-140	Hexa			U L	0.46		U L	0.51	0.44	J	0.49
PCB-141	Hexa		4.5	L	0.92	5	L	0.94	3.7		0.42
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		2.2	L	1	2.3	L	1.1	1.5		0.49
PCB-145	Hexa			U L	0.41		U L	0.48		U	0.14
PCB-146	Hexa		4.4	C L	0.92	5	C L	0.94	4.4	C	0.42
PCB-147	Hexa		0.93	J L	1	1.2	L	1.1	0.73		0.49
PCB-148	Hexa			U L	0.52		U L	0.63		U	0.19
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	0.41		U L	0.48		U	0.14
PCB-151	Hexa		9.9	L	1	12	L	1.1	8.7		0.49
PCB-152	Hexa			U L	0.38		U L	0.44		U	0.13
PCB-153	Hexa		26	L	0.92	29	L	0.94	20		0.42
PCB-154	Hexa		1.7	L	1	1.9	L	1.1	1.2		0.49
PCB-155	Hexa	PRC									
PCB-156	Hexa		1.7	L	0.81	1.6	L	0.81	1.2		0.36
PCB-157	Hexa		0.48	J L	0.81		U L	0.39	0.36		0.36
PCB-158	Hexa		2.7	C L	0.92	3	C L	0.94	2.3	C	0.42
PCB-159	Hexa		0.55	J L	0.81		U L	0.32	0.27	J	0.36
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CC-S010		LDW-Y3-SU-ENR+AC-CD-S010		LDW-Y3-SU-ENR+AC-CA-S010-BIO				
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		5.2		0.57	7.4		0.71	31	L	4.9
PCB-83	Penta		2.6	C	0.57	3.7	C	0.71	21	C L	4.9
PCB-84	Penta		27	C	0.65	43	C	0.8	210	C L	5
PCB-85	Penta		6	C	0.57	8.9	C	0.71	52	C L	4.9
PCB-86	Penta			U	0.36		U	0.44		U L	3.3
PCB-87	Penta		16	C	0.57	24	C	0.71	120	C L	4.9
PCB-88	Penta			UC	0.3		UC	0.39		UC L	2.8
PCB-89	Penta		1.2		0.73	1.7		0.89	6.5	L	5.2
PCB-90	Penta		50	C	0.57	82	C	0.71	420	C L	4.9
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.17		U	0.22		U L	1.6
PCB-94	Penta		0.68	J	0.73	1		0.89	5.8	L	5.2
PCB-95	Penta		69		0.73	110		0.89	490	L	5.2
PCB-96	Penta		0.8		0.64	1.3		0.79	5.8	L	5
PCB-97	Penta		15		0.57	24		0.71	120	L	4.9
PCB-98	Penta			UC	0.2		UC	0.26		UC L	1.9
PCB-99	Penta		19		0.57	32		0.71	160	L	4.9
PCB-100	Penta		0.76		0.73	1.4		0.89	8	L	5.2
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		1.1		0.73	2.5		0.89	13	L	5.2
PCB-104	Penta	PRC									
PCB-105	Penta		6.4		0.45	11		0.58	61	L	4.7
PCB-106	Penta		20	C	0.45	32	C	0.58	200	C L	4.7
PCB-107	Penta		1.7	C	0.45	3	C	0.58	20	C L	4.7
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U	0.25		U	0.31		U L	2.3
PCB-110	Penta		44		0.57	70		0.71	350	L	4.9
PCB-111	Penta		0.66	C	0.5	1.1	C	0.64	4.5	C, J L	4.8
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U	0.27		U	0.34		U L	2.6
PCB-114	Penta		0.75		0.45	0.98		0.58	5.9	L	4.7
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		1.2		0.57	2.2		0.71	13	L	4.9
PCB-120	Penta			U	0.17		U	0.22		U L	1.9
PCB-121	Penta	PRC									
PCB-122	Penta		0.25	J	0.45	0.52	J	0.58	3	J L	4.7
PCB-123	Penta		0.43	J	0.45	0.77		0.58	4.6	J L	4.7
PCB-124	Penta		1.1		0.45	1.8		0.58	10	L	4.7
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U	0.11		U	0.2		U L	1.8
PCB-127	Penta			U	0.099		U	0.17		U L	1.6
PCB-128	Hexa		1.4	C	0.22	2.7	C	0.32	25	C L	4.1
PCB-129	Hexa		0.51		0.25	0.93		0.35	9.1	L	4.2
PCB-130	Hexa		0.73		0.25	1.4		0.35	15	L	4.2
PCB-131	Hexa			UB C	0.27		UB C	0.38		UB C L	4.3
PCB-132	Hexa		4	C	0.27	8.3	C	0.38	66	C L	4.3
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		1.1	C	0.3	2.1	C	0.41	17	C L	4.3
PCB-135	Hexa		2.6		0.3	5.1		0.41	43	L	4.3
PCB-136	Hexa		3		0.25	6.5		0.35	63	L	4.2
PCB-137	Hexa		0.51		0.25	1		0.35	8.8	L	4.2
PCB-138	Hexa		10	C	0.25	21	C	0.35	200	C L	4.2
PCB-139	Hexa		14	C	0.3	28	C	0.41	240	C L	4.3
PCB-140	Hexa			U	0.12	0.43		0.41	3.4	J L	4.3
PCB-141	Hexa		2		0.25	3.8		0.35	37	L	4.2
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		0.77		0.3	1.8		0.41	13	L	4.3
PCB-145	Hexa			U	0.082		U	0.13		U L	2.2
PCB-146	Hexa		1.8	C	0.25	3.8	C	0.35	38	C L	4.2
PCB-147	Hexa		0.31		0.3	0.64		0.41	5	L	4.3
PCB-148	Hexa			U	0.11		U	0.17		U L	2.6
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U	0.082		U	0.13		U L	2.2
PCB-151	Hexa		4.3		0.3	8.6		0.41	70	L	4.3
PCB-152	Hexa			U	0.076		U	0.12		U L	2
PCB-153	Hexa		9.5		0.25	19		0.35	200	L	4.2
PCB-154	Hexa		0.49		0.3	1		0.41	13	L	4.3
PCB-155	Hexa	PRC									
PCB-156	Hexa		0.61		0.2	1.2		0.29	13	L	4.1
PCB-157	Hexa		0.15	J	0.2	0.34		0.29	3.5	J L	4.1
PCB-158	Hexa		1.2	C	0.25	2.2	C	0.35	19	C L	4.2
PCB-159	Hexa		0.14	J	0.2	0.27	J	0.29	2.4	J L	4.1
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO			LDW-Y3-SU-ENR+AC-CC-S010-BIO			LDW-Y3-SU-ENR-CA-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		20	L	3.8	14	L	1.8	7.7		0.62
PCB-83	Penta		11	C L	3.8	7.2	C L	1.8	4.2	C	0.62
PCB-84	Penta		110	C L	3.9	79	C L	1.9	47	C	0.7
PCB-85	Penta		25	C L	3.8	18	C L	1.8	9.2	C	0.62
PCB-86	Penta			U L	2		U L	1.1		U	0.34
PCB-87	Penta		65	C L	3.8	44	C L	1.8	22	C	0.62
PCB-88	Penta			U C L	2.2		U C L	0.69		U C	0.24
PCB-89	Penta		3.5	J L	3.9	3.1	L	2.1	1.2		0.79
PCB-90	Penta		230	C L	3.8	150	C L	1.8	83	C	0.62
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U L	1.3		U L	0.39		U	0.24
PCB-94	Penta			U L	1.5		U L	0.47	0.77	J	0.79
PCB-95	Penta		260	L	3.9	180	L	2.1	110		0.79
PCB-96	Penta		3.6	J L	3.9	2.3	L	1.9	1.1		0.7
PCB-97	Penta		62	L	3.8	44	L	1.8	25		0.62
PCB-98	Penta			U C L	1.5		U C L	0.47		U C	0.26
PCB-99	Penta		90	L	3.8	59	L	1.8	36		0.62
PCB-100	Penta		4.7	L	3.9	2.8	L	2.1	1.2		0.79
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		6.8	L	3.9	4.2	L	2.1	2.7		0.79
PCB-104	Penta	PRC									
PCB-105	Penta		36	L	3.8	21	L	1.7	11		0.49
PCB-106	Penta		110	C L	3.8	67	C L	1.7	33	C	0.49
PCB-107	Penta		11	C L	3.8	5.9	C L	1.7	3.3	C	0.49
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	1.4		U L	0.75		U	0.2
PCB-110	Penta		190	L	3.8	130	L	1.8	71		0.62
PCB-111	Penta		4.1	C L	3.8	1.8	C L	1.8	0.94	C	0.55
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	1.5		U L	0.82		U	0.22
PCB-114	Penta		4	L	3.8	2.1	L	1.7	0.85		0.49
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		6.5	L	3.8	4.4	L	1.8	3		0.62
PCB-120	Penta			U L	1.2		U L	0.59		U	0.15
PCB-121	Penta	PRC									
PCB-122	Penta			U L	1	0.99	J L	1.7	0.49		0.49
PCB-123	Penta		2.5	J L	3.8	1.3	J L	1.7	0.7		0.49
PCB-124	Penta		6	L	3.8	3.7	L	1.7	1.7		0.49
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	1.2		U L	0.46		U	0.14
PCB-127	Penta			U L	1		U L	0.39		U	0.14
PCB-128	Hexa		19	C L	3.7	8.2	C L	1.3	3.1	C	0.24
PCB-129	Hexa		6.6	L	3.7	2.5	L	1.3	1.2		0.27
PCB-130	Hexa		9.6	L	3.7	4	L	1.3	1.9		0.27
PCB-131	Hexa			U B C L	3.7		U B C L	1.4		U B C	0.3
PCB-132	Hexa		44	C L	3.7	23	C L	1.4	10	C	0.3
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		11	C L	3.7	5.3	C L	1.4	2.3	C	0.32
PCB-135	Hexa		29	L	3.7	13	L	1.4	5.2		0.32
PCB-136	Hexa		39	L	3.7	17	L	1.3	5.9		0.28
PCB-137	Hexa		5.7	L	3.7	2.4	L	1.3	1.2		0.27
PCB-138	Hexa		130	C L	3.7	58	C L	1.3	24	C	0.27
PCB-139	Hexa		160	C L	3.7	74	C L	1.4	31	C	0.32
PCB-140	Hexa		2.5	J L	3.7	0.97	J L	1.4	0.54		0.32
PCB-141	Hexa		23	L	3.7	10	L	1.3	4.6		0.27
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		7.8	L	3.7	5.3	L	1.4	2.1		0.32
PCB-145	Hexa			U L	1.2		U L	0.43		U	0.11
PCB-146	Hexa		26	C L	3.7	11	C L	1.3	4.4	C	0.27
PCB-147	Hexa		3.5	J L	3.7	1.4	J L	1.4	0.86		0.32
PCB-148	Hexa			U L	1.5		U L	0.53		U	0.18
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	1.2		U L	0.43		U	0.11
PCB-151	Hexa		49	L	3.7	22	L	1.4	9.5		0.32
PCB-152	Hexa			U L	1.2		U L	0.39		U	0.11
PCB-153	Hexa		130	L	3.7	54	L	1.3	25		0.27
PCB-154	Hexa		7.7	L	3.7	2.7	L	1.4	1.1		0.32
PCB-155	Hexa	PRC									
PCB-156	Hexa		8.5	L	3.7	3.5	L	1.2	1.5		0.22
PCB-157	Hexa		2.4	J L	3.7	0.93	J L	1.2	0.33		0.22
PCB-158	Hexa		13	C L	3.7	6	C L	1.3	2.5	C	0.27
PCB-159	Hexa		2.1	J L	3.7	0.93	J L	1.2	0.33		0.22
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010		LDW-Y3-SU-ENR-CC-S010		LDW-Y3-SU-ENR-CA-S010-BIO				
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		5.6		0.66	7.8		0.67	11		1.5
PCB-83	Penta		2.9	C	0.66	3.5	C	0.67	4.9	C	1.5
PCB-84	Penta		33	C	0.74	41	C	0.75	62	C	1.6
PCB-85	Penta		6.5	C	0.66	9.2	C	0.67	12	C	1.5
PCB-86	Penta			U	0.34		U	0.34		U	1
PCB-87	Penta		17	C	0.66	23	C	0.67	30	C	1.5
PCB-88	Penta			UC	0.21		UC	0.21		UC	0.61
PCB-89	Penta		1.4		0.84	1.5		0.84	2.2		1.8
PCB-90	Penta		58	C	0.66	75	C	0.67	110	C	1.5
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.22		U	0.22		U	0.61
PCB-94	Penta		0.67	J	0.84	0.71	J	0.84		U	0.64
PCB-95	Penta		81		0.84	93		0.84	140		1.8
PCB-96	Penta		0.8		0.74	1.1		0.74	1.4	J	1.6
PCB-97	Penta		17		0.66	22		0.67	32		1.5
PCB-98	Penta			UC	0.23		UC	0.23		UC	0.65
PCB-99	Penta		24		0.66	29		0.67	45		1.5
PCB-100	Penta		0.87		0.84	1.1		0.84	2.2		1.8
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		1.6		0.84	1.5		0.84	3.4		1.8
PCB-104	Penta	PRC									
PCB-105	Penta		7.5		0.52	10		0.53	13	L	1.2
PCB-106	Penta		22	C	0.52	29	C	0.53	43	C L	1.2
PCB-107	Penta		0.46	C,J	0.52	2.4	C	0.53	0.96	C,J L	1.2
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U	0.2		U	0.21		U	0.63
PCB-110	Penta		49		0.66	64		0.67	90		1.5
PCB-111	Penta		0.84	C	0.58	1.5	C	0.59	1.8	C L	1.3
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U	0.22		U	0.22		U	0.67
PCB-114	Penta		0.57		0.52	0.77		0.53	1.1	J L	1.2
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		2.3		0.66	1.8		0.67	3.4		1.5
PCB-120	Penta			U	0.15		U	0.15		U L	0.47
PCB-121	Penta	PRC									
PCB-122	Penta		0.25	J	0.52	0.5	J	0.53	0.88	J L	1.2
PCB-123	Penta		0.51	J	0.52	0.6		0.53	1	J L	1.2
PCB-124	Penta		1.1		0.52	1.6		0.53	2	L	1.2
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U	0.1		U	0.17		U L	0.44
PCB-127	Penta			U	0.1		U	0.16		U L	0.36
PCB-128	Hexa		1.7	C	0.26	2.2	C	0.28	4.2	C L	0.64
PCB-129	Hexa		0.79		0.29	0.9		0.3	1.3	L	0.7
PCB-130	Hexa		1.1		0.29	1.3		0.3	2.6	L	0.7
PCB-131	Hexa			UB C	0.31		UB C	0.33		UB C L	0.76
PCB-132	Hexa		6	C	0.31	6.4	C	0.33	12	C L	0.76
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		1.6	C	0.34	2	C	0.36	3.5	C L	0.83
PCB-135	Hexa		3.3		0.34	3.7		0.36	8.1	L	0.83
PCB-136	Hexa		4		0.29	4.5		0.31	10	L	0.71
PCB-137	Hexa		0.69		0.29	0.76		0.3	1.4	L	0.7
PCB-138	Hexa		14	C	0.29	17	C	0.3	30	C L	0.7
PCB-139	Hexa		20	C	0.34	22	C	0.36	43	C L	0.83
PCB-140	Hexa		0.28	J	0.34	0.29	J	0.36	1.1	L	0.83
PCB-141	Hexa		2.7		0.29	3.4		0.3	5.6	L	0.7
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		1.5		0.34	1.5		0.36	3	L	0.83
PCB-145	Hexa			U	0.12		U	0.12		U L	0.29
PCB-146	Hexa		2.6	C	0.29	2.8	C	0.3	7	C L	0.7
PCB-147	Hexa		0.53		0.34	0.57		0.36	1.5	L	0.83
PCB-148	Hexa			U	0.19		U	0.2		U L	0.48
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U	0.11		U	0.12		U L	0.29
PCB-151	Hexa		6.2		0.34	7.3		0.36	14	L	0.83
PCB-152	Hexa			U	0.12		U	0.12		U L	0.3
PCB-153	Hexa		15		0.29	17		0.3	35	L	0.7
PCB-154	Hexa		0.69		0.34	0.74		0.36	2.6	L	0.83
PCB-155	Hexa	PRC									
PCB-156	Hexa		0.73		0.23	0.93		0.25	1.7	L	0.59
PCB-157	Hexa		0.18	J	0.23	0.26		0.25	0.56	J L	0.59
PCB-158	Hexa		1.4	C	0.29	1.8	C	0.3	2.9	C L	0.7
PCB-159	Hexa		0.22	J	0.23	0.2	J	0.25	0.57	J L	0.59
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO		LDW-Y3-SU-ENR-CC-S010-BIO		LDW-Y3-SU-S010-LCB				
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		75	L	5.1	24	L	3.3		U	0.36
PCB-83	Penta		41	C L	5.1	10	C L	3.3		UC	0.26
PCB-84	Penta		420	C L	5.3	130	C L	3.6		UC	0.35
PCB-85	Penta		88	C L	5.1	29	C L	3.3		UC	0.25
PCB-86	Penta			U L	3.5		U L	2.5		U	0.37
PCB-87	Penta		200	C L	5.1	70	C L	3.3		UC	0.23
PCB-88	Penta			UC L	1.7		UC L	1		UC	0.3
PCB-89	Penta		13	L	5.4	4.9	L	3.9		U	0.38
PCB-90	Penta		730	C L	5.1	230	C L	3.3		UC	0.28
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U L	1.7		U L	1		U	0.31
PCB-94	Penta		8.6	L	5.4	3.1	J L	3.9		U	0.32
PCB-95	Penta		860	L	5.4	270	L	3.9		U	0.3
PCB-96	Penta		14	L	5.2	3.3	J L	3.6		U	0.2
PCB-97	Penta		240	L	5.1	69	L	3.3		U	0.32
PCB-98	Penta			UC L	1.8		UC L	1.1		UC	0.32
PCB-99	Penta		320	L	5.1	92	L	3.3		U	0.25
PCB-100	Penta		8	L	5.4	3.9	J L	3.9		U	0.27
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta		19	L	5.4	4.8	L	3.9		U	0.27
PCB-104	Penta	PRC									
PCB-105	Penta		100	L	4.9	32	L	2.8		U	0.15
PCB-106	Penta		340	C L	4.9	91	C L	2.8		UC	0.15
PCB-107	Penta		35	C L	4.9	8.6	C L	2.8		UC	0.16
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U L	2.1		U L	1.5		U	0.22
PCB-110	Penta		650	L	5.1	200	L	3.3	0.4	J	0.8
PCB-111	Penta		7.6	C L	5	4.5	C L	3.1		UC	0.2
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U L	2.3		U L	1.6		U	0.24
PCB-114	Penta		7.9	L	4.9	3.1	L	2.8		U	0.14
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		24	L	5.1		U L	1.4		U	0.21
PCB-120	Penta			U L	1.9		U L	1.2		U	0.17
PCB-121	Penta	PRC									
PCB-122	Penta		4.8	J L	4.9	1.6	J L	2.8		U	0.16
PCB-123	Penta		5.9	L	4.9	1.6	J L	2.8		U	0.18
PCB-124	Penta		14	L	4.9	5.8	L	2.8		U	0.15
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	1.8		U L	0.86		U	0.14
PCB-127	Penta			U L	1.6		U L	0.79		U	0.13
PCB-128	Hexa		40	C L	4.4	9.2	C L	1.8		UC	0.11
PCB-129	Hexa		15	L	4.4	4.1	L	1.9		U	0.16
PCB-130	Hexa		25	L	4.4	6.1	L	1.9		U	0.17
PCB-131	Hexa			UB C L	4.5		UB C L	2		UC	0.17
PCB-132	Hexa		100	C L	4.5	27	C L	2		UC	0.13
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		30	C L	4.6	7.4	C L	2.2		UC	0.18
PCB-135	Hexa		63	L	4.6	16	L	2.2		U	0.16
PCB-136	Hexa		90	L	4.5	18	L	2		U	0.12
PCB-137	Hexa		16	L	4.4	3.1	L	1.9		U	0.13
PCB-138	Hexa		290	C L	4.4	73	C L	1.9		UC	0.11
PCB-139	Hexa		380	C L	4.6	93	C L	2.2		UC	0.15
PCB-140	Hexa		5.6	L	4.6	1.2	J L	2.2		U	0.15
PCB-141	Hexa		55	L	4.4	14	L	1.9		U	0.13
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		26	L	4.6	5.8	L	2.2		U	0.16
PCB-145	Hexa			U L	1.5		U L	0.7		U	0.12
PCB-146	Hexa		54	C L	4.4	13	C L	1.9	0.19	C,J	0.38
PCB-147	Hexa		10	L	4.6	2.1	J L	2.2		U	0.15
PCB-148	Hexa			U L	2.2		U L	1.1		U	0.19
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	1.5		U L	0.68		U	0.12
PCB-151	Hexa		120	L	4.6	28	L	2.2		U	0.16
PCB-152	Hexa			U L	1.5		U L	0.71		U	0.12
PCB-153	Hexa		300	L	4.4	80	L	1.9	0.69		0.38
PCB-154	Hexa		14	L	4.6	3.4	L	2.2		U	0.16
PCB-155	Hexa	PRC									
PCB-156	Hexa		17	L	4.3	4.7	L	1.7		U	0.09
PCB-157	Hexa		4	J L	4.3	1.4	J L	1.7		U	0.088
PCB-158	Hexa		31	C L	4.4	8	C L	1.9		UC	0.1
PCB-159	Hexa		4.4	L	4.3	1.3	J L	1.7		U	0.08
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-LBS-WAT-S010-SPME			LDW-Y3-IN-ENR+AC-CA-S010			LDW-Y3-IN-ENR+AC-CB-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta			U	0.49	4.5		1.7	2.8		0.96
PCB-83	Penta			UC	0.38	3.1	C	1.7	1.6	C	0.96
PCB-84	Penta			UC	0.52	33	C	1.9	17	C	1
PCB-85	Penta			UC	0.36	6.5	C	1.7	4.3	C	0.96
PCB-86	Penta			U	0.49		U	0.75		U	0.38
PCB-87	Penta			UC	0.34	16	C	1.7	9.4	C	0.96
PCB-88	Penta			UC	0.51		UC	0.62		UC	0.35
PCB-89	Penta			U	0.6	1.1	J	2		U	0.45
PCB-90	Penta			UC	0.4	51	C	1.7	29	C	0.96
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.57		U	0.65		U	0.36
PCB-94	Penta			U	0.57		U	0.69		U	0.38
PCB-95	Penta			U	0.49	76		2	43		1.1
PCB-96	Penta			U	0.35		U	0.45		U	0.24
PCB-97	Penta			U	0.46	15		1.7	8.6		0.96
PCB-98	Penta			UC	0.57		UC	0.63		UC	0.35
PCB-99	Penta			U	0.37	23		1.7	13		0.96
PCB-100	Penta			U	0.47	1.4	J	2	0.99	J	1.1
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta			U	0.48	1.4	J	2	0.79	J	1.1
PCB-104	Penta	PRC									
PCB-105	Penta			U	0.23	7.2	L	1.6	4.6		0.8
PCB-106	Penta			UC	0.22	23	C L	1.6	15	C	0.8
PCB-107	Penta			UC	0.24	2	C L	1.6	1.3	C	0.8
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U	0.33		U	0.53		U	0.27
PCB-110	Penta			U	0.31	47		1.7	28		0.96
PCB-111	Penta			UC	0.27	1.1	C,J L	1.7	0.38	C,J	0.88
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U	0.34		U	0.56		U	0.28
PCB-114	Penta			U	0.25		U L	0.61	0.49	J	0.8
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta			U	0.3	1.7	J	1.7	0.88	J	0.96
PCB-120	Penta			U	0.23		U L	0.43		U	0.2
PCB-121	Penta	PRC									
PCB-122	Penta			U	0.23		U L	0.58		U	0.27
PCB-123	Penta			U	0.26		U L	0.67	0.39	J	0.8
PCB-124	Penta			U	0.22	1.5	J L	1.6	0.94		0.8
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U	0.24		U L	0.63		U	0.25
PCB-127	Penta			U	0.19		U L	0.57		U	0.25
PCB-128	Hexa			UC	0.13	3.4	C L	1.2	1.8	C L	0.49
PCB-129	Hexa			U	0.19	1.6	L	1.2	0.76	L	0.53
PCB-130	Hexa			U	0.17	2.1	L	1.2	0.94	L	0.53
PCB-131	Hexa			UC	0.2		UB C,J L	1.3		UB C	0.57
PCB-132	Hexa		0.22	C,J	0.39	8.2	C L	1.3	4.6	C	0.57
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa			UC	0.22	2.6	C L	1.3	1.3	C	0.6
PCB-135	Hexa			U	0.21	5.7	L	1.3	3.2		0.6
PCB-136	Hexa			U	0.16	5.3	L	1.2	2.9		0.54
PCB-137	Hexa			U	0.16	1.3	L	1.2	0.83	L	0.53
PCB-138	Hexa			UC	0.14	22	C L	1.2	12	C L	0.53
PCB-139	Hexa			UC	0.19	24	C L	1.3	14	C	0.6
PCB-140	Hexa			U	0.19		U L	0.69		U	0.21
PCB-141	Hexa			U	0.16	3.8	L	1.2	2.1	L	0.53
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa			U	0.17	1.3	J L	1.3	0.61		0.6
PCB-145	Hexa			U	0.15		U L	0.38		U	0.2
PCB-146	Hexa		0.26	C,J	0.35	4.4	C L	1.2	2.1	C L	0.53
PCB-147	Hexa			U	0.19	1	J L	1.3	0.69		0.6
PCB-148	Hexa			U	0.22		U L	0.47		U	0.27
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U	0.15		U L	0.37		U	0.2
PCB-151	Hexa			U	0.2	8.4	L	1.3	4.3		0.6
PCB-152	Hexa			U	0.15		U L	0.38		U	0.2
PCB-153	Hexa		0.46		0.35	22	L	1.2	11	L	0.53
PCB-154	Hexa			U	0.2	1.5	L	1.3	0.88		0.6
PCB-155	Hexa	PRC									
PCB-156	Hexa			U	0.11	1.4	L	1.1	0.76	L	0.46
PCB-157	Hexa			U	0.11	0.5	J L	1.1	0.25	J L	0.46
PCB-158	Hexa			UC	0.12	2.5	C L	1.2	1.4	C L	0.53
PCB-159	Hexa			U	0.097		U L	0.29	0.2	J L	0.46
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010		LDW-Y3-IN-ENR-CB-S010		LDW-Y3-IN-ENR-CC-S010				
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-82	Penta		3.2		1.5	9.2	L	3.3	6.2	L	1.8
PCB-83	Penta		2.1	C	1.5	5.9	C L	3.3	3.9	C L	1.8
PCB-84	Penta		18	C	1.6	59	C L	3.3	38	C	1.9
PCB-85	Penta		4.3	C	1.5	15	C L	3.3	9.8	C L	1.8
PCB-86	Penta			U	0.68		U L	1.5		U L	1.5
PCB-87	Penta		9.7	C	1.5	32	C L	3.3	20	C L	1.8
PCB-88	Penta			UC	0.48		UC L	1		UC	1.1
PCB-89	Penta			U	0.76		U L	1.5		U	1.7
PCB-90	Penta		32	C	1.5	100	C L	3.3	64	C L	1.8
PCB-91	Penta			C088			C088			C088	
PCB-92	Penta			C084			C084			C084	
PCB-93	Penta			U	0.5		U L	1.1		U	1.2
PCB-94	Penta			U	0.52		U L	1.1		U	1.2
PCB-95	Penta		42		1.7	140	L	3.4	100		2.1
PCB-96	Penta			U	0.34		U L	0.78		U	0.79
PCB-97	Penta		9.5		1.5	30	L	3.3	19	L	1.8
PCB-98	Penta			UC	0.48		UC L	1		UC	1.1
PCB-99	Penta		14		1.5	47	L	3.3	29	L	1.8
PCB-100	Penta			U	0.44	2.9	J L	3.4		U	1
PCB-101	Penta			C090			C090			C090	
PCB-102	Penta			C098			C098			C098	
PCB-103	Penta			U	0.44	2.8	J L	3.4		U	1
PCB-104	Penta	PRC									
PCB-105	Penta		5.8	L	1.4	19	L	3.3	11	L	1.6
PCB-106	Penta		17	C L	1.4	62	C L	3.3	32	C L	1.6
PCB-107	Penta		1.7	C L	1.4	4.9	C L	3.3	3.7	C L	1.6
PCB-108	Penta			C107			C107			C107	
PCB-109	Penta			U	0.48		U L	1.1		U L	1
PCB-110	Penta		30		1.5	100	L	3.3	62	L	1.8
PCB-111	Penta			UC	0.45		UC L	1.1		UC L	0.95
PCB-112	Penta			C083			C083			C083	
PCB-113	Penta			U	0.5		U L	1.1		U L	1.1
PCB-114	Penta			U L	0.53	1.7	J L	3.3		U L	0.96
PCB-115	Penta			C111			C111			C111	
PCB-116	Penta			C085			C085			C085	
PCB-117	Penta			C087			C087			C087	
PCB-118	Penta			C106			C106			C106	
PCB-119	Penta		1.1	J	1.5	3.5	L	3.3	2.4	L	1.8
PCB-120	Penta			U L	0.39		U L	0.97		U L	0.81
PCB-121	Penta	PRC									
PCB-122	Penta			U L	0.47		U L	1.3		U L	0.91
PCB-123	Penta			U L	0.58		U L	1.5		U L	1.1
PCB-124	Penta		0.82	J L	1.4	3	J L	3.3	1.8	L	1.6
PCB-125	Penta			C087			C087			C087	
PCB-126	Penta			U L	0.52		U L	1.4		U L	0.94
PCB-127	Penta			U L	0.46		U L	1.4		U L	0.87
PCB-128	Hexa		2.6	C L	1	10	C L	3.4	4.1	C L	1.1
PCB-129	Hexa		1	J L	1.1	4	L	3.4	2.2	L	1.1
PCB-130	Hexa		1.3	L	1.1	5.1	L	3.4	1.9	L	1.1
PCB-131	Hexa			UB C, J L	1.1		UB C L	3.4		UB C L	1.2
PCB-132	Hexa		6.1	C L	1.1	27	C L	3.4	11	C L	1.2
PCB-133	Hexa			C131			C131			C131	
PCB-134	Hexa		1.6	C L	1.1	6.9	C L	3.3	3.6	C L	1.3
PCB-135	Hexa		4.2	L	1.1	15	L	3.3	8.1	L	1.3
PCB-136	Hexa		4.1	L	1.1	16	L	3.4	6.9	L	1.1
PCB-137	Hexa		1.1	L	1.1	4.4	L	3.4	2	L	1.1
PCB-138	Hexa		16	C L	1.1	68	C L	3.4	26	C L	1.1
PCB-139	Hexa		17	C L	1.1	71	C L	3.3	30	C L	1.3
PCB-140	Hexa			U L	0.37		U L	1.5		U L	0.85
PCB-141	Hexa		3.2	L	1.1	12	L	3.4	4.7	L	1.1
PCB-142	Hexa	PRC									
PCB-143	Hexa			C134			C134			C134	
PCB-144	Hexa		0.83	J L	1.1	4.1	L	3.3	2.3	L	1.3
PCB-145	Hexa			U L	0.4		U L	1.2		U L	0.68
PCB-146	Hexa		3.2	C L	1.1	13	C L	3.4	5.5	C L	1.1
PCB-147	Hexa		0.86	J L	1.1	3.1	J L	3.3	1.9	L	1.3
PCB-148	Hexa			U L	0.5		U L	1.3		U L	0.87
PCB-149	Hexa			C139			C139			C139	
PCB-150	Hexa			U L	0.39		U L	1.1		U L	0.66
PCB-151	Hexa		5.6	L	1.1	22	L	3.3	12	L	1.3
PCB-152	Hexa			U L	0.4		U L	1.2		U L	0.68
PCB-153	Hexa		15	L	1.1	60	L	3.4	23	L	1.1
PCB-154	Hexa		1.2	L	1.1	4	L	3.3	1.7	L	1.3
PCB-155	Hexa	PRC									
PCB-156	Hexa		1.1	L	0.97	4.8	L	3.4	2.2	L	1
PCB-157	Hexa			U L	0.25		U L	1.1		U L	0.54
PCB-158	Hexa		1.8	C L	1.1	6.4	C L	3.4	3.1	C L	1.1
PCB-159	Hexa			U L	0.23		U L	1.1		U L	0.49
PCB-160	Hexa			C158			C158			C158	
PCB-161	Hexa			C132			C132			C132	
PCB-162	Hexa			C128			C128			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CD-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)
PCB-82	Penta		5.4	L	2.1
PCB-83	Penta		4	C L	2.1
PCB-84	Penta		38	C L	2.2
PCB-85	Penta		8.7	C L	2.1
PCB-86	Penta			U L	1.2
PCB-87	Penta		20	C L	2.1
PCB-88	Penta			UC L	0.77
PCB-89	Penta			U L	1.3
PCB-90	Penta		64	C L	2.1
PCB-91	Penta			C088	
PCB-92	Penta			C084	
PCB-93	Penta			U L	0.8
PCB-94	Penta			U L	0.84
PCB-95	Penta		94	L	2.2
PCB-96	Penta			U L	0.57
PCB-97	Penta		19	L	2.1
PCB-98	Penta			UC L	0.78
PCB-99	Penta		30	L	2.1
PCB-100	Penta		2.3	L	2.2
PCB-101	Penta			C090	
PCB-102	Penta			C098	
PCB-103	Penta		2.2	J L	2.2
PCB-104	Penta	PRC			
PCB-105	Penta		12	L	2
PCB-106	Penta		37	C L	2
PCB-107	Penta		3.5	C L	2
PCB-108	Penta			C107	
PCB-109	Penta			U L	0.87
PCB-110	Penta		61	L	2.1
PCB-111	Penta			UC L	0.84
PCB-112	Penta			C083	
PCB-113	Penta			U L	0.92
PCB-114	Penta		1.3	J L	2
PCB-115	Penta			C111	
PCB-116	Penta			C085	
PCB-117	Penta			C087	
PCB-118	Penta			C106	
PCB-119	Penta		2.6	L	2.1
PCB-120	Penta			U L	0.75
PCB-121	Penta	PRC			
PCB-122	Penta			U L	0.9
PCB-123	Penta		1.2	J L	2
PCB-124	Penta		2.4	L	2
PCB-125	Penta			C087	
PCB-126	Penta			U L	0.9
PCB-127	Penta			U L	0.94
PCB-128	Hexa		6.2	C L	1.8
PCB-129	Hexa		2.5	L	1.8
PCB-130	Hexa		3.1	L	1.8
PCB-131	Hexa			UB C L	1.8
PCB-132	Hexa		13	C L	1.8
PCB-133	Hexa			C131	
PCB-134	Hexa		3.7	C L	1.9
PCB-135	Hexa		9.2	L	1.9
PCB-136	Hexa		9.3	L	1.8
PCB-137	Hexa		2.1	L	1.8
PCB-138	Hexa		35	C L	1.8
PCB-139	Hexa		38	C L	1.9
PCB-140	Hexa			U L	0.82
PCB-141	Hexa		6.8	L	1.8
PCB-142	Hexa	PRC			
PCB-143	Hexa			C134	
PCB-144	Hexa		2.3	L	1.9
PCB-145	Hexa			U L	0.78
PCB-146	Hexa		7.1	C L	1.8
PCB-147	Hexa		1.9	L	1.9
PCB-148	Hexa			U L	0.93
PCB-149	Hexa			C139	
PCB-150	Hexa			U L	0.76
PCB-151	Hexa		14	L	1.9
PCB-152	Hexa			U L	0.77
PCB-153	Hexa		36	L	1.8
PCB-154	Hexa		3	L	1.9
PCB-155	Hexa	PRC			
PCB-156	Hexa		2.2	L	1.7
PCB-157	Hexa			U L	0.61
PCB-158	Hexa		4.1	C L	1.8
PCB-159	Hexa			U L	0.55
PCB-160	Hexa			C158	
PCB-161	Hexa			C132	
PCB-162	Hexa			C128	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010			LDW-Y3-SC-ENR+AC-CB-S010			LDW-Y3-SC-ENR+AC-CC-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	0.92		U L	1.2		U L	0.4
PCB-167	Hexa		2.7	L	1.9	3.4	L	2.9	0.96	L	0.57
PCB-168	Hexa			U L	0.95		U L	1.2		U L	0.41
PCB-169	Hexa			U L	0.82		U L	1.1		U L	0.3
PCB-170	Hepta		11	L	1.7	18	L	3.1	2.4	L	0.37
PCB-171	Hepta		4.9	L	1.7	6.8	L	3	1.8	L	0.41
PCB-172	Hepta		3	L	1.7	6.2	L	3.1	1.2	L	0.37
PCB-173	Hepta			U L	0.98		U L	1.9		U L	0.28
PCB-174	Hepta		15	L	1.7	22	L	3	4.9	L	0.41
PCB-175	Hepta			U L	0.87		U L	1.6		U L	0.25
PCB-176	Hepta		2.5	L	1.7	5.5	L	3.1	0.7	L	0.36
PCB-177	Hepta		13	L	1.7	18	L	3	3.3	L	0.41
PCB-178	Hepta		5.4	L	1.7	8.6	L	3	1.7	L	0.41
PCB-179	Hepta		9.6	L	1.7	17	L	3.1	2.2	L	0.36
PCB-180	Hepta		31	L	1.7	48	L	3.1	6	L	0.37
PCB-181	Hepta			U L	0.89		U L	1.7		U L	0.25
PCB-182	Hepta		26	C L	1.7	39	C L	3	6.2	C L	0.41
PCB-183	Hepta		11	L	1.7	21	L	3	3.2	L	0.41
PCB-184	Hepta	PRC									
PCB-185	Hepta		2.6	L	1.7		U L	1.6		U L	0.25
PCB-186	Hepta			U L	0.64		U L	1.3		U L	0.16
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	0.71		U L	1.4		U L	0.18
PCB-189	Hepta			U L	0.55		U L	1.1		U L	0.14
PCB-190	Hepta		2.7	L	1.7	4.1	L	3.1	0.84	L	0.37
PCB-191	Hepta			U L	0.62		U L	1.2		U L	0.18
PCB-192	Hepta	PRC									
PCB-193	Hepta		1.8	L	1.7		U L	1.3	0.6	L	0.37
PCB-194	Octa		3.8	L	1.4	6.7	L	3.2	0.7	L	0.21
PCB-195	Octa		1.7	L	1.5	4.4	L	3.2		U L	0.22
PCB-196	Octa		5.5	C L	1.5	10	C L	3.2	0.9	C L	0.23
PCB-197	Octa		0.93	L	1.4	0.25	L	3.2	0.053	L	0.2
PCB-198	Octa			U L	1.3		U L	2.5		U L	0.22
PCB-199	Octa		4.5	L	1.4	9.7	L	3.2	0.5	L	0.2
PCB-200	Octa			U L	0.86		U L	1.8		U L	0.13
PCB-201	Octa			U L	0.92		U L	1.9		U L	0.16
PCB-202	Octa			U L	0.94		U L	2		U L	0.15
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	0.46		U L	1.6		U L	0.15
PCB-206	Nona			U L	1.1		U L	2.1		U L	0.13
PCB-207	Nona		0.059	L	1.2	1.4	L	3.4	0.057	L	0.11
PCB-208	Nona			U L	0.56		U L	1.6		U L	0.074
PCB-209	Deca		0.82	L	1.1	3.5	L	3.6		U B L	0.065
Total Detected PCB Congeners			3700			3300			2900		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010-LONG			LDW-Y3-SC-ENR+AC-CB-S010-LONG			LDW-Y3-SC-ENR+AC-CC-S010-LONG		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	6		U L	2.6		U L	5.4
PCB-167	Hexa		18	L	15	9.7	L	5.4	16	J L	17
PCB-168	Hexa			U L	6.2		U L	2.6		U L	5.6
PCB-169	Hexa			U L	7.1		U L	2.8		U L	7.1
PCB-170	Hepta		120	L	21	36	L	6.3	130	L	26
PCB-171	Hepta		47	L	19	14	L	6.1	60	L	23
PCB-172	Hepta		73	L	21	12	L	6.3	82	L	26
PCB-173	Hepta			U L	11		U L	4.8		U L	12
PCB-174	Hepta		160	L	19	49	L	6.1	150	L	23
PCB-175	Hepta			U L	9.7		U L	4.3		U L	11
PCB-176	Hepta		31	L	22	9	L	6.4	35	L	27
PCB-177	Hepta		94	L	19	31	L	6.1	110	L	23
PCB-178	Hepta		39	L	19	15	L	6.1	49	L	23
PCB-179	Hepta		97	L	22	29	L	6.4	110	L	27
PCB-180	Hepta		280	L	21	82	L	6.3	350	L	26
PCB-181	Hepta			U L	9.9		U L	4.3		U L	11
PCB-182	Hepta		190	C L	19	65	C L	6.1	220	C L	23
PCB-183	Hepta		120	L	19	35	L	6.1	130	L	23
PCB-184	Hepta	PRC									
PCB-185	Hepta			U L	9.5		U L	4.4	27	L	23
PCB-186	Hepta			U L	8.3		U L	3.5		U L	9.5
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	8.9		U L	3.8		U L	11
PCB-189	Hepta			U L	8.4		U L	3.4		U L	9.1
PCB-190	Hepta		30	L	21	6	J L	6.3	31	L	26
PCB-191	Hepta			U L	7.8		U L	3.6		U L	9.6
PCB-192	Hepta	PRC									
PCB-193	Hepta		22	L	21	5.3	J L	6.3	22	J L	26
PCB-194	Octa		63	L	34	15	L	8	91	L	47
PCB-195	Octa		33	L	31	7.9	L	7.7	32	J L	42
PCB-196	Octa		110	C L	31	15	C L	7.7	120	C L	42
PCB-197	Octa		32	L	35	6.6	L	8.2	14	L	49
PCB-198	Octa			U L	25		U L	4.6		U L	21
PCB-199	Octa		96	L	35	17	L	8.2	130	L	49
PCB-200	Octa			U L	21		U L	3.5		U L	18
PCB-201	Octa			U L	18		U L	3.4		U L	16
PCB-202	Octa			U L	22		U L	4		U L	20
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	18		U L	3.1		U L	15
PCB-206	Nona			U L	32		U L	3		U L	41
PCB-207	Nona		47	L	56	7.9	L	10	58	L	89
PCB-208	Nona			U L	32		U L	2.3		U L	36
PCB-209	Deca		110	L	89	5.5	L	13	110	L	160
Total Detected PCB Congeners			7900			4000			8800		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP			LDW-Y3-SC-ENR-CA-S010			LDW-Y3-SC-ENR-CC-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	2.4		U L	0.57		U L	0.82
PCB-167	Hexa		5.3	J L	6	1.4	J L	1.6	1.9	L	1.8
PCB-168	Hexa			U L	2.3		U L	0.55		U L	0.84
PCB-169	Hexa			U L	2.5		U L	0.48		U L	0.82
PCB-170	Hepta		38	L	6.6	5.1	L	1.3	10	L	1.8
PCB-171	Hepta		17	L	6.4	2.6	L	1.4	3.7	L	1.8
PCB-172	Hepta		15	L	6.6	0.91	L	1.3	5	L	1.8
PCB-173	Hepta			U L	3.3		U L	0.75		U L	0.85
PCB-174	Hepta		53	L	6.4	7.1	L	1.4	16	L	1.8
PCB-175	Hepta			U L	2.9		U L	0.65		U L	0.73
PCB-176	Hepta		13	L	6.6		U L	0.46	2.6	L	1.7
PCB-177	Hepta		35	L	6.4	5.6	L	1.4	9.3	L	1.8
PCB-178	Hepta		16	L	6.4	2.6	L	1.4	3.6	L	1.8
PCB-179	Hepta		33	L	6.6	4.1	L	1.3	7.5	L	1.7
PCB-180	Hepta		93	L	6.6	14	L	1.3	27	L	1.8
PCB-181	Hepta			U L	3.1		U L	0.7		U L	0.77
PCB-182	Hepta		78	C L	6.4	12	C L	1.4	20	C L	1.8
PCB-183	Hepta		38	L	6.4	5.4	L	1.4	9.2	L	1.8
PCB-184	Hepta	PRC									
PCB-185	Hepta		8	L	6.4		U L	0.66	2.8	L	1.8
PCB-186	Hepta			U L	2.2		U L	0.46		U L	0.56
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta		10	L	6.6		U L	0.51		U L	0.63
PCB-189	Hepta			U L	2.2		U L	0.43		U L	0.56
PCB-190	Hepta		9.1	L	6.6		U L	0.51	2.7	L	1.8
PCB-191	Hepta			U L	2.4		U L	0.51		U L	0.59
PCB-192	Hepta	PRC									
PCB-193	Hepta		7.1	L	6.6		U L	0.48	1.9	L	1.8
PCB-194	Octa		13	L	7.5	1.2	L	1	2.9	L	1.7
PCB-195	Octa			U L	2.6		U L	0.39	1.7	L	1.7
PCB-196	Octa		17	C L	7.3	2	C L	1.1	4.5	C L	1.7
PCB-197	Octa		0.89	L	7.5	0.044	L	0.99	1.3	L	1.7
PCB-198	Octa			U L	3.8		U L	0.6		U L	0.84
PCB-199	Octa		17	L	7.5	2.2	L	0.99	4.3	L	1.7
PCB-200	Octa			U L	3		U L	0.42		U L	0.59
PCB-201	Octa			U L	2.9		U L	0.46		U L	0.6
PCB-202	Octa			U L	3.4		U L	0.48		U L	0.67
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	2.1		U L	0.3		U L	0.56
PCB-206	Nona		6.8	J L	8.2		U L	0.26	1.2	J L	1.6
PCB-207	Nona		1.1	L	8.6		U B L	0.76	0.46	L	1.6
PCB-208	Nona			U L	2.3		U L	0.18		U L	0.54
PCB-209	Deca		5	L	9.7	0.33	L	0.58	0.67	L	1.5
Total Detected PCB Congeners			5700			2900			4500		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010			LDW-Y3-SC-ENR-CA-S010-LONG			LDW-Y3-SC-ENR-CC-S010-LONG		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	0.54		U L	0.26		U	0.17
PCB-167	Hexa		1.3	J L	1.4	0.5	J L	0.55	0.4		0.36
PCB-168	Hexa			U L	0.52		U L	0.25		U	0.17
PCB-169	Hexa			U L	0.47		U L	0.18		U	0.11
PCB-170	Hepta		5.1	L	1.3	1.8	L	0.36	1	L	0.22
PCB-171	Hepta		2.9	L	1.3	0.95	L	0.41	0.58	L	0.25
PCB-172	Hepta		1.6	L	1.3	0.55	L	0.36	0.043	L	0.22
PCB-173	Hepta			U L	0.71		U L	0.16		U L	0.11
PCB-174	Hepta		8.3	L	1.3	3	L	0.41	1.9	L	0.25
PCB-175	Hepta			U L	0.61		U L	0.14		U L	0.093
PCB-176	Hepta		1.7	L	1.3	0.53	L	0.35	0.32	L	0.22
PCB-177	Hepta		5.3	L	1.3	2	L	0.41	1.1	L	0.25
PCB-178	Hepta		2.4	L	1.3	0.75	L	0.41	0.5	L	0.25
PCB-179	Hepta		4.7	L	1.3	1.5	L	0.35	0.93	L	0.22
PCB-180	Hepta		14	L	1.3	4.5	L	0.36	3	L	0.22
PCB-181	Hepta			U L	0.66		U L	0.15		U L	0.1
PCB-182	Hepta		12	C L	1.3	4.1	C L	0.41	2.8	C L	0.25
PCB-183	Hepta		5.6	L	1.3	2	L	0.41	1.3	L	0.25
PCB-184	Hepta	PRC									
PCB-185	Hepta			U L	0.62		U L	0.14		U L	0.094
PCB-186	Hepta			U L	0.45		U L	0.091		U L	0.06
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	0.52		U L	0.1		U L	0.071
PCB-189	Hepta			U L	0.4		U L	0.08		U L	0.047
PCB-190	Hepta		1.5	L	1.3	0.5	L	0.36	0.24	L	0.22
PCB-191	Hepta			U L	0.49		U L	0.1		U L	0.067
PCB-192	Hepta	PRC									
PCB-193	Hepta			U L	0.47		U L	0.097	0.18	J L	0.22
PCB-194	Octa		1.8	L	1.1	0.37	L	0.21	0.22	L	0.12
PCB-195	Octa		0.86	J L	1.2		U L	0.11		U L	0.031
PCB-196	Octa		2.4	C L	1.2	0.62	C L	0.23	0.31	C L	0.13
PCB-197	Octa		0.19	L	1.1		U B L	0.2	0.012	L	0.11
PCB-198	Octa			U L	0.56		U L	0.14		U L	0.063
PCB-199	Octa		2.7	L	1.1	0.47	L	0.2	0.22	L	0.11
PCB-200	Octa			U L	0.41		U L	0.093		U L	0.04
PCB-201	Octa			U L	0.43		U L	0.11		U L	0.048
PCB-202	Octa			U L	0.47		U L	0.11		U L	0.046
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	0.38		U L	0.078		U L	0.022
PCB-206	Nona			U L	0.5		U L	0.043		U L	0.043
PCB-207	Nona		0.11	L	0.97		U B L	0.11		U B L	0.059
PCB-208	Nona			U L	0.36		U L	0.026		U L	0.023
PCB-209	Deca			U B L	0.84		U B L	0.066		U B L	0.032
Total Detected PCB Congeners			2700			2800			2500		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG			LDW-Y3-SC-ENR-S010-DEP			LDW-Y3-SU-ENR+AC-CA-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	0.37		U L	0.4		U	0.16
PCB-167	Hexa		0.79	J L	0.81	0.87	L	0.81	0.59		0.36
PCB-168	Hexa			U L	0.38		U L	0.41		U	0.17
PCB-169	Hexa			U L	0.31		U L	0.29		U	0.12
PCB-170	Hepta		2.8	L	0.55	2.3	L	0.51	1.4	L	0.22
PCB-171	Hepta		1.4	L	0.61	1.1	L	0.58	0.69	L	0.26
PCB-172	Hepta		0.8	L	0.55		U B L	0.51	0.3	L	0.22
PCB-173	Hepta			U L	0.29		U L	0.31		U L	0.1
PCB-174	Hepta		4.1	L	0.61	4.1	L	0.58	2.7	L	0.26
PCB-175	Hepta			U L	0.25		U L	0.27		U L	0.086
PCB-176	Hepta		0.8	L	0.54	0.76	L	0.5	0.5	L	0.22
PCB-177	Hepta		2.9	L	0.61	2.3	L	0.58	1.7	L	0.26
PCB-178	Hepta		1.4	L	0.61	1.2	L	0.58	0.74	L	0.26
PCB-179	Hepta		2.1	L	0.54	2	L	0.5	1.3	L	0.22
PCB-180	Hepta		7.3	L	0.55	6.6	L	0.51	4.7	L	0.22
PCB-181	Hepta			U L	0.26		U L	0.29		U L	0.091
PCB-182	Hepta		5.6	C L	0.61	5.7	C L	0.58	3.5	C L	0.26
PCB-183	Hepta		2.6	L	0.61	2.9	L	0.58	1.6	L	0.26
PCB-184	Hepta	PRC									
PCB-185	Hepta		0.43	J L	0.61		U L	0.3	0.32	L	0.26
PCB-186	Hepta			U L	0.17		U L	0.18		U L	0.058
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	0.18	0.55	L	0.5	0.26	L	0.22
PCB-189	Hepta			U L	0.17		U L	0.16		U L	0.052
PCB-190	Hepta		0.72	L	0.55	0.75	L	0.51	0.39	L	0.22
PCB-191	Hepta			U L	0.18		U L	0.2		U L	0.062
PCB-192	Hepta	PRC									
PCB-193	Hepta		0.55	L	0.55	0.63	L	0.51	0.32	L	0.22
PCB-194	Octa		0.43	L	0.34	0.52	L	0.28	0.28	L	0.12
PCB-195	Octa		0.3	J L	0.37	0.26	J L	0.31	0.14	L	0.14
PCB-196	Octa		0.8	C L	0.37	0.88	C L	0.31	0.42	C L	0.14
PCB-197	Octa			U B L	0.32	0.067	L	0.27	0.023	L	0.12
PCB-198	Octa			U L	0.19		U L	0.15		U L	0.059
PCB-199	Octa		0.69	L	0.32	0.68	L	0.27	0.4	L	0.12
PCB-200	Octa			U L	0.12		U L	0.09		U L	0.036
PCB-201	Octa			U L	0.13		U L	0.1		U L	0.041
PCB-202	Octa			U L	0.13		U L	0.1		U L	0.04
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	0.09		U L	0.12		U L	0.038
PCB-206	Nona		0.13	J L	0.23	0.13	J L	0.17	0.063	J L	0.076
PCB-207	Nona			U B L	0.2		U B L	0.15	0.0039	L	0.064
PCB-208	Nona			U L	0.037		U L	0.038		U L	0.017
PCB-209	Deca			U B L	0.12		U B L	0.081	0.013	L	0.036
Total Detected PCB Congeners			4400				4600			5400	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CC-S010			LDW-Y3-SU-ENR+AC-CD-S010			LDW-Y3-SU-ENR+AC-CA-S010-BIO		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U	0.085		U	0.13		U L	1.9
PCB-167	Hexa		0.29		0.2	0.53		0.29	6.1	L	4.1
PCB-168	Hexa			U	0.088		U	0.14		U L	1.9
PCB-169	Hexa			U	0.062		U	0.11		U L	2.1
PCB-170	Hepta		0.63		0.11	1.6		0.18	26	L	3.6
PCB-171	Hepta		0.31		0.13	0.56		0.2	10	L	3.8
PCB-172	Hepta		0.15		0.11	0.34		0.18	8.2	L	3.6
PCB-173	Hepta			U	0.055		U	0.073		U L	1.8
PCB-174	Hepta		1.1		0.13	2.6		0.2	43	L	3.8
PCB-175	Hepta			U	0.047		U	0.062		U L	1.6
PCB-176	Hepta		0.14		0.11	0.41		0.17	7.6	L	3.6
PCB-177	Hepta		0.63		0.13	1.5		0.2	24	L	3.8
PCB-178	Hepta		0.29		0.13	0.7		0.2	11	L	3.8
PCB-179	Hepta		0.49		0.11	1.2		0.17	21	L	3.6
PCB-180	Hepta		1.9		0.11	4.3		0.18	78	L	3.6
PCB-181	Hepta			U	0.05		U	0.066		U L	1.7
PCB-182	Hepta		1.4	C	0.13	3.4	C	0.2	54	C L	3.8
PCB-183	Hepta		0.64		0.13	1.6		0.2	23	L	3.8
PCB-184	Hepta	PRC									
PCB-185	Hepta		0.2		0.13	0.39		0.2	6.9	L	3.8
PCB-186	Hepta			U	0.03		U	0.041		U L	1.2
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta		0.088	J	0.11	0.17	J	0.17		U L	1.3
PCB-189	Hepta			U	0.028		U L	0.036		U L	1.2
PCB-190	Hepta		0.16		0.11	0.34		0.18	6.2	L	3.6
PCB-191	Hepta			U	0.033		U	0.045		U L	1.3
PCB-192	Hepta	PRC									
PCB-193	Hepta		0.1	J	0.11	0.35		0.18	5.3	L	3.6
PCB-194	Octa		0.11		0.049	0.28	L	0.091	7.2	L	3.2
PCB-195	Octa		0.071		0.057	0.14	L	0.1	3.3	L	3.3
PCB-196	Octa		0.16	C	0.057	0.46	C L	0.1	11	C L	3.3
PCB-197	Octa		0.021		0.046	0.026	L	0.086	0.57	L	3.1
PCB-198	Octa			U	0.021		U L	0.046		U L	1.7
PCB-199	Octa		0.11		0.046	0.34	L	0.086	9.3	L	3.1
PCB-200	Octa			U	0.012		U L	0.027		U L	1.2
PCB-201	Octa			U	0.015		U L	0.033		U L	1.2
PCB-202	Octa			U	0.014	0.11	L	0.086		U L	1.3
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U	0.015		U L	0.033		U L	1.1
PCB-206	Nona		0.019	J	0.026	0.051	J L	0.054		U L	1.7
PCB-207	Nona			UB	0.021		UB L	0.045	0.65	L	2.7
PCB-208	Nona			U	0.0059	0.018	J L	0.045		U L	1.2
PCB-209	Deca		0.00038	L	0.0097	0.0083	L	0.024	1.8	L	2.4
Total Detected PCB Congeners			3200			4300			9900		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO			LDW-Y3-SU-ENR+AC-CC-S010-BIO			LDW-Y3-SU-ENR-CA-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	1.3		U L	0.42		U	0.092
PCB-167	Hexa		3.9	L	3.7	1.8	L	1.2	0.67		0.22
PCB-168	Hexa			U L	1.3		U L	0.43		U	0.094
PCB-169	Hexa			U L	1.3		U L	0.4		U	0.062
PCB-170	Hepta		19	L	3.7	5.8	L	0.98	2.1		0.12
PCB-171	Hepta		8.7	L	3.7	2.5	L	1	0.89		0.14
PCB-172	Hepta		6.4	L	3.7	0.96	L	0.98	0.56		0.12
PCB-173	Hepta			U L	1.6		U L	0.39		U	0.066
PCB-174	Hepta		31	L	3.7	10	L	1	3.3		0.14
PCB-175	Hepta			U L	1.3		U L	0.34	0.18		0.14
PCB-176	Hepta		5.6	L	3.7	1.7	L	0.97	0.5		0.12
PCB-177	Hepta		20	L	3.7	5.9	L	1	2.2		0.14
PCB-178	Hepta		8.3	L	3.7	2.6	L	1	0.81		0.14
PCB-179	Hepta		18	L	3.7	5.5	L	0.97	1.5		0.12
PCB-180	Hepta		67	L	3.7	18	L	0.98	5.7		0.12
PCB-181	Hepta			U L	1.4		U L	0.36		U	0.06
PCB-182	Hepta		43	C L	3.7	14	C L	1	4.6	C	0.14
PCB-183	Hepta		19	L	3.7	5.5	L	1	2.1		0.14
PCB-184	Hepta	PRC									
PCB-185	Hepta		4.8	L	3.7	1.8	L	1	0.46		0.14
PCB-186	Hepta			U L	1		U L	0.25		U	0.037
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	1.2	0.6	J L	0.97	0.14		0.12
PCB-189	Hepta			U L	1		U L	0.22		U	0.028
PCB-190	Hepta		3.7	L	3.7	1.2	L	0.98	0.41		0.12
PCB-191	Hepta			U L	1.1		U L	0.26	0.12		0.12
PCB-192	Hepta	PRC									
PCB-193	Hepta		4.1	L	3.7	0.85	J L	0.98	0.35		0.12
PCB-194	Octa		7.6	L	3.6	1.6	L	0.73	0.4		0.055
PCB-195	Octa		3.9	L	3.6	0.81	L	0.77	0.23		0.064
PCB-196	Octa		12	C L	3.6	2.6	C L	0.77	0.62	C	0.064
PCB-197	Octa		0.43	L	3.6	0.074	L	0.71		UB	0.051
PCB-198	Octa			U L	1.5		U L	0.31		U	0.029
PCB-199	Octa		12	L	3.6	2.4	L	0.71	0.46		0.051
PCB-200	Octa			U L	1.1		U L	0.21		U	0.017
PCB-201	Octa			U L	1.1		U L	0.22	0.082		0.064
PCB-202	Octa			U L	1.2		U L	0.23	0.13		0.051
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	0.98		U L	0.21		U	0.022
PCB-206	Nona		2.8	J L	3.6	0.43	J L	0.58	0.086		0.03
PCB-207	Nona		0.79	L	3.6	0.081	L	0.53	0.012	L	0.024
PCB-208	Nona			U L	0.95	0.23	J L	0.53	0.019	J L	0.024
PCB-209	Deca		1.4	L	3.6	0.086	L	0.4	0.0043	L	0.011
Total Detected PCB Congeners			5200			4700			3700		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010			LDW-Y3-SU-ENR-CC-S010			LDW-Y3-SU-ENR-CA-S010-BIO		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U	0.098		U	0.12		U L	0.31
PCB-167	Hexa		0.36		0.23	0.46		0.25	0.85	L	0.59
PCB-168	Hexa			U	0.1		U	0.12		U L	0.32
PCB-169	Hexa			U	0.07		U	0.077		U L	0.22
PCB-170	Hepta		0.83		0.13	0.95		0.14	2.2	L	0.34
PCB-171	Hepta		0.32		0.15	0.46		0.17	1.1	L	0.4
PCB-172	Hepta		0.28		0.13	0.23		0.14	0.6	L	0.34
PCB-173	Hepta			U	0.051		U	0.068		U L	0.16
PCB-174	Hepta		1.5		0.15	1.7		0.17	4.2	L	0.4
PCB-175	Hepta			U	0.046		U	0.061		U L	0.15
PCB-176	Hepta		0.2		0.12	0.28		0.14	0.65	L	0.33
PCB-177	Hepta		0.95		0.15	1.1		0.17	2.5	L	0.4
PCB-178	Hepta		0.42		0.15	0.5		0.17	1.1	L	0.4
PCB-179	Hepta		0.72		0.12	0.85		0.14	2	L	0.33
PCB-180	Hepta		2.3		0.13	2.6		0.14	6.7	L	0.34
PCB-181	Hepta			U	0.046		U	0.061		U L	0.15
PCB-182	Hepta		2.2	C	0.15	2.2	C	0.17	5.9	C L	0.4
PCB-183	Hepta		0.99		0.15	1.1		0.17	2.5	L	0.4
PCB-184	Hepta	PRC									
PCB-185	Hepta		0.2		0.15	0.22		0.17	0.58	L	0.4
PCB-186	Hepta			U	0.028		U	0.038		U L	0.093
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta		0.13		0.12	0.15		0.14		U L	0.1
PCB-189	Hepta			U	0.024		U	0.032		U L	0.074
PCB-190	Hepta		0.18		0.13	0.24		0.14	0.47	L	0.34
PCB-191	Hepta			U	0.031		U	0.041		U L	0.1
PCB-192	Hepta	PRC									
PCB-193	Hepta		0.13		0.13	0.17		0.14	0.39	L	0.34
PCB-194	Octa		0.13		0.059	0.17		0.069	0.41	L	0.17
PCB-195	Octa		0.089		0.068	0.097		0.079	0.22	L	0.19
PCB-196	Octa		0.2	C	0.068	0.24	C	0.079	0.69	C L	0.19
PCB-197	Octa			UB	0.055		UB L	0.064	0.043	L	0.16
PCB-198	Octa			U	0.022		U	0.027		U L	0.071
PCB-199	Octa		0.13		0.055	0.21	L	0.064	0.46	L	0.16
PCB-200	Octa			U	0.013		U L	0.016		U L	0.043
PCB-201	Octa		30		0.068		U	0.02		U L	0.053
PCB-202	Octa			U	0.014		U L	0.018		U L	0.048
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U	0.025		U	0.029		U L	0.08
PCB-206	Nona		0.023	J L	0.032	0.029	J L	0.039	0.068	J L	0.096
PCB-207	Nona			UB L	0.025		UB L	0.031	0.0018	L	0.078
PCB-208	Nona			U L	0.0044		U L	0.0084	0.043	J L	0.078
PCB-209	Deca			UB L	0.012		UB L	0.015		UB L	0.039
Total Detected PCB Congeners			3500				4300			5200	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO			LDW-Y3-SU-ENR-CC-S010-BIO			LDW-Y3-SU-S010-LCB		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	1.9		U L	0.76		U	0.1
PCB-167	Hexa		8.5	L	4.3	2.2	L	1.7		U	0.085
PCB-168	Hexa			U L	2		U L	0.78		U	0.11
PCB-169	Hexa			U L	1.6		U L	0.57		U	0.07
PCB-170	Hepta		30	L	3.9	5	L	1.1		U	0.064
PCB-171	Hepta		13	L	4	2.5	L	1.3		U	0.072
PCB-172	Hepta		6.7	L	3.9	0.9	L	1.1		U	0.065
PCB-173	Hepta			U L	1.9		U L	0.37		U	0.078
PCB-174	Hepta		49	L	4	8.7	L	1.3		U	0.072
PCB-175	Hepta			U L	1.7		U L	0.33		U	0.07
PCB-176	Hepta		11	L	3.9	1.5	L	1.1		U	0.046
PCB-177	Hepta		29	L	4	5.8	L	1.3		U	0.077
PCB-178	Hepta		14	L	4	2.5	L	1.3		U	0.074
PCB-179	Hepta		32	L	3.9	4.4	L	1.1		U	0.044
PCB-180	Hepta		86	L	3.9	14	L	1.1		U	0.064
PCB-181	Hepta			U L	1.8		U L	0.33		U	0.07
PCB-182	Hepta		64	C L	4	12	C L	1.3		U C	0.066
PCB-183	Hepta		32	L	4	6.7	L	1.3		U	0.066
PCB-184	Hepta	PRC									
PCB-185	Hepta		7.2	L	4	1.4	L	1.3		U	0.071
PCB-186	Hepta			U L	1.3		U L	0.22		U	0.044
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	1.5	0.96	J L	1.1		U	0.044
PCB-189	Hepta			U L	1.1		U L	0.2		U L	0.042
PCB-190	Hepta		7.5	L	3.9	1.4	L	1.1		U	0.048
PCB-191	Hepta			U L	1.3		U L	0.23		U	0.048
PCB-192	Hepta	PRC									
PCB-193	Hepta		5.6	L	3.9	1.2	L	1.1		U	0.046
PCB-194	Octa		9.5	L	3.4	1.1	L	0.68		U L	0.039
PCB-195	Octa		4.6	L	3.5	0.63	J L	0.75		U L	0.05
PCB-196	Octa		14	C L	3.5	1.8	C L	0.75		U C L	0.038
PCB-197	Octa		1.6	L	3.4		U B L	0.65	0.027	L	0.088
PCB-198	Octa			U L	1.6		U L	0.28		U L	0.042
PCB-199	Octa		12	L	3.4	1.5	L	0.65		U L	0.034
PCB-200	Octa			U L	1.1		U L	0.18		U L	0.025
PCB-201	Octa			U L	1.2		U L	0.21		U L	0.031
PCB-202	Octa		3.9	L	3.4		U L	0.2		U L	0.028
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	1.6		U L	0.65		U L	0.033
PCB-206	Nona		2.6	J L	3.1		U L	0.16		U L	0.011
PCB-207	Nona		0.62	L	3		U B L	0.39		U B L	0.045
PCB-208	Nona			U L	0.67		U L	0.096		U L	0.0057
PCB-209	Deca		0.098	L	2.6		U B L	0.23		U B L	0.023
Total Detected PCB Congeners			26000			7500		8.7			

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-LBS-WAT-S010-SPME			LDW-Y3-IN-ENR+AC-CA-S010			LDW-Y3-IN-ENR+AC-CB-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U	0.12		U L	0.35		U L	0.14
PCB-167	Hexa			U	0.1	0.89	J L	1.1	0.46	L	0.46
PCB-168	Hexa			U	0.13		U L	0.36		U L	0.15
PCB-169	Hexa			U	0.073		U L	0.28		U L	0.091
PCB-170	Hepta			U	0.067	1.7	L	0.86	0.75	L	0.31
PCB-171	Hepta			U	0.076	0.96	L	0.92	0.46	L	0.34
PCB-172	Hepta		0.14		0.15	1.3	L	0.86	0.099	L	0.31
PCB-173	Hepta			U	0.083		U L	0.48		U L	0.15
PCB-174	Hepta			U	0.07	2.9	L	0.92	1.2	L	0.34
PCB-175	Hepta			U	0.072		U L	0.43		U L	0.13
PCB-176	Hepta			U	0.044	0.66	J L	0.85		U L	0.086
PCB-177	Hepta			U	0.08	2.2	L	0.92	0.92	L	0.34
PCB-178	Hepta			U	0.076	1.2	L	0.92	0.39	L	0.34
PCB-179	Hepta			U	0.044	1.5	L	0.85	0.67	L	0.3
PCB-180	Hepta			U	0.063	5.3	L	0.86	2	L	0.31
PCB-181	Hepta			U	0.075		U L	0.44		U L	0.14
PCB-182	Hepta			UC	0.067	4.4	C L	0.92	1.8	C L	0.34
PCB-183	Hepta			U	0.069	2.1	L	0.92	1.1	L	0.34
PCB-184	Hepta	PRC									
PCB-185	Hepta			U	0.074		U L	0.42		U L	0.13
PCB-186	Hepta			U	0.045		U L	0.3		U L	0.089
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U	0.05		U L	0.32		U L	0.1
PCB-189	Hepta			U	0.038		U L	0.27		U L	0.069
PCB-190	Hepta			U	0.05		U L	0.31		U L	0.094
PCB-191	Hepta			U	0.049		U L	0.29		U L	0.088
PCB-192	Hepta	PRC									
PCB-193	Hepta			U	0.048		U L	0.3		U L	0.09
PCB-194	Octa			U	0.034	0.69	L	0.63	0.15	J L	0.18
PCB-195	Octa			U	0.042		U L	0.25		U L	0.095
PCB-196	Octa			UC	0.043		UC L	0.29	0.28	C L	0.2
PCB-197	Octa		0.016		0.058	0.12	L	0.61		UB L	0.17
PCB-198	Octa			U	0.049		U L	0.33		U L	0.12
PCB-199	Octa			U	0.034		U L	0.29		U L	0.1
PCB-200	Octa			U	0.026		U L	0.21		U L	0.075
PCB-201	Octa			U	0.032		U L	0.24		U L	0.088
PCB-202	Octa			U	0.029		U L	0.23		U L	0.082
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U	0.028		U L	0.18		U L	0.065
PCB-206	Nona			U L	0.011		U L	0.23		U L	0.053
PCB-207	Nona			UB L	0.025		UB L	0.45		UB L	0.1
PCB-208	Nona			U L	0.0064		U L	0.18		U L	0.035
PCB-209	Deca			UB L	0.011	0.032	L	0.33		UB L	0.06
Total Detected PCB Congeners			2.6				1000			700	

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010			LDW-Y3-IN-ENR-CB-S010			LDW-Y3-IN-ENR-CC-S010		
			[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)		(pg/L)	(pg/L)		(pg/L)	(pg/L)		(pg/L)
PCB-163	Hexa			C138			C138			C138	
PCB-164	Hexa			C138			C138			C138	
PCB-165	Hexa			C146			C146			C146	
PCB-166	Hexa			U L	0.27		U L	1.2		U L	0.6
PCB-167	Hexa		0.54	J L	0.97	2	J L	3.4	1.2	L	1
PCB-168	Hexa			U L	0.28		U L	1.2		U L	0.62
PCB-169	Hexa			U L	0.22		U L	1		U L	0.43
PCB-170	Hepta		1.4	L	0.76	5.8	L	3.5	1.6	L	0.73
PCB-171	Hepta		0.72	J L	0.81	3.2	J L	3.4		U L	0.64
PCB-172	Hepta		1.5	L	0.76	2.5	L	3.5	0.81	L	0.73
PCB-173	Hepta			U L	0.35		U L	1.5		U L	0.71
PCB-174	Hepta		1.5	L	0.81	9.9	L	3.4	2.8	L	0.8
PCB-175	Hepta			U L	0.31		U L	1.3		U L	0.63
PCB-176	Hepta			U L	0.21	2.3	J L	3.5		U L	0.41
PCB-177	Hepta		1.5	L	0.81	7.8	L	3.4	2.3	L	0.8
PCB-178	Hepta		0.73	J L	0.81	3.8	L	3.4		U L	0.65
PCB-179	Hepta		1.1	L	0.75	7.8	L	3.5	2	L	0.72
PCB-180	Hepta		3.7	L	0.76	19	L	3.5	4.5	L	0.73
PCB-181	Hepta			U L	0.32		U L	1.4		U L	0.64
PCB-182	Hepta		3.4	C L	0.81	16	C L	3.4	4.8	C L	0.8
PCB-183	Hepta		1.6	L	0.81	9.3	L	3.4	3	L	0.8
PCB-184	Hepta	PRC									
PCB-185	Hepta			U L	0.31		U L	1.3		U L	0.62
PCB-186	Hepta			U L	0.22		U L	1		U L	0.43
PCB-187	Hepta			C182			C182			C182	
PCB-188	Hepta			U L	0.27		U L	1.2		U L	0.46
PCB-189	Hepta			U L	0.16		U L	0.92		U L	0.37
PCB-190	Hepta			U L	0.23	2.5	J L	3.5		U L	0.45
PCB-191	Hepta			U L	0.21		U L	0.99		U L	0.42
PCB-192	Hepta	PRC									
PCB-193	Hepta			U L	0.22		U L	1		U L	0.43
PCB-194	Octa		0.48	J L	0.56	3.4	J L	3.6		U L	0.38
PCB-195	Octa			U L	0.19		U L	1.2		U L	0.46
PCB-196	Octa		0.59	C,J L	0.59	3.9	C L	3.6		UCL	0.41
PCB-197	Octa		0.0013	L	0.54		U B L	3.6	0.17	L	0.46
PCB-198	Octa			U L	0.29		U L	1.8		U L	0.46
PCB-199	Octa		0.48	J L	0.54		U L	1.7		U L	0.39
PCB-200	Octa			U L	0.19		U L	1.3		U L	0.29
PCB-201	Octa			U L	0.21		U L	1.3		U L	0.34
PCB-202	Octa			U L	0.21		U L	1.4		U L	0.32
PCB-203	Octa			C196			C196			C196	
PCB-204	Octa	PRC									
PCB-205	Octa			U L	0.14		U L	0.96		U L	0.32
PCB-206	Nona			U L	0.16		U L	1.4		U L	0.26
PCB-207	Nona		0.075	L	0.4		U B L	3.8	0.12	L	0.31
PCB-208	Nona			U L	0.11		U L	0.98		U L	0.15
PCB-209	Deca		0.18	L	0.3	0.96	L	3.9	0.13	L	0.2
Total Detected PCB Congeners			650			1900			1500		

Table 1. Concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CD-S010		
			[PCB Cfree] Result (pg/L)	Qualifier	[PCB Cfree] DL (pg/L)
			PCB-163	Hexa	
PCB-164	Hexa			C138	
PCB-165	Hexa			C146	
PCB-166	Hexa			U L	0.62
PCB-167	Hexa		1.3	J L	1.7
PCB-168	Hexa			U L	0.64
PCB-169	Hexa			U L	0.55
PCB-170	Hepta		3.7	L	1.6
PCB-171	Hepta		2	L	1.6
PCB-172	Hepta		2.2	L	1.6
PCB-173	Hepta			U L	1
PCB-174	Hepta		5.6	L	1.6
PCB-175	Hepta			U L	0.93
PCB-176	Hepta			U L	0.66
PCB-177	Hepta		4.5	L	1.6
PCB-178	Hepta			U L	0.96
PCB-179	Hepta		4	L	1.6
PCB-180	Hepta		10	L	1.6
PCB-181	Hepta			U L	0.95
PCB-182	Hepta		8.1	C L	1.6
PCB-183	Hepta		4.3	L	1.6
PCB-184	Hepta	PRC			
PCB-185	Hepta			U L	0.91
PCB-186	Hepta			U L	0.68
PCB-187	Hepta			C182	
PCB-188	Hepta			U L	0.7
PCB-189	Hepta			U L	0.67
PCB-190	Hepta			U L	0.71
PCB-191	Hepta			U L	0.66
PCB-192	Hepta	PRC			
PCB-193	Hepta			U L	0.68
PCB-194	Octa		2.3	L	1.4
PCB-195	Octa			U L	1.1
PCB-196	Octa		2	C L	1.4
PCB-197	Octa		0.37	L	1.4
PCB-198	Octa			U L	1.2
PCB-199	Octa			U L	1.1
PCB-200	Octa			U L	0.82
PCB-201	Octa			U L	0.87
PCB-202	Octa			U L	0.9
PCB-203	Octa			C196	
PCB-204	Octa	PRC			
PCB-205	Octa			U L	0.81
PCB-206	Nona			U L	0.89
PCB-207	Nona		0.43	L	1.2
PCB-208	Nona			U L	0.71
PCB-209	Deca		0.039	L	1.1
Total Detected PCB Congeners			1400		

Notes

C: Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter. For example, PCB-20 co-elutes with PCB-21 and PCB-33
 J: Analyte concentration is below calibration range
 L: Percent to steady state less than 20%
 PCB: Polychlorinated biphenyl
 pg/L: picogram per liter
 PRC: Performance Reference Compound
 U: Not detected at the Detection Limit (DL) shown in the second column for each sample.
 UB: Cfree concentration after correction for trace PCBs present in the sampler before deployment is less than zero and is not reported as detectable

ATTACHMENT A: DATA ANALYSIS METHODS

Attachment A: Data Analysis Methods
Concentrations of Freely-Dissolved Polychlorinated Biphenyls (PCBs)
Measured via SP3ME™ Passive Samplers

Information about the SPME fiber and exposure duration for the samples reported in this document are provided in Table A1. The exposure duration as shown in Table A1 was calculated as the average exposure duration of each fiber in the composite sample. The deployment and retrieval dates and exposure duration of each composited fiber are shown in Table A2. The mass of PCB congeners in the extracts (Table A3) obtained from Frontier Analytical Laboratory report (Attachment C of the Data Report) were used in a multi-step data process to calculate C_{free} PCBs as described below.

Step 1:

The concentration of PCB analytes in the PDMS phase of the sampler was calculated as the mass of each PCB analyte (as reported by the laboratory, Table A3) divided by the volume PDMS. Volume of PDMS is shown in Table A2 and is based on the measured mass of the SPME fiber prior to compositing the fibers, the conversion factor of 0.069 gram per cm, 0.631 μL per cm, and density of PDMS (0.965 kilogram per liter [kg/L]).

The concentration of the PRCs in PDMS [$PDMS_t$] was used to calculate the elimination rate (k_e) values for the PRCs in each sample using the following equation (Lohmann, 2012):

$$PRC\ k_e = \ln \left(\frac{[PDMS_{t=0}]}{[PDMS_{t=final}]} \right) \div t_{final}$$

where:

$PDMS_{t=0}$ = the average concentration of the PRC in the PDMS at the beginning of the deployment (obtained from an average measurement of the Trip Blanks);

$PDMS_{t=final}$ = the concentration of the PRC in the PDMS after the deployment (obtained from each sample); and

t_{final} = the deployment time (in days).

k_e = the elimination rate (in days⁻¹)

PRC k_e values for the PRCs in the sediment-deployed sample are shown in Table A4. The values are also expressed as a percentage of steady state (concentration at equilibrium). A number of PRC k_e values were not calculated and were treated as outliers because $PDMS_{t=final}$ values were equal to or greater than $PDMS_{t=0}$ values.

PRC k_e values which deviated significantly from the log PRC K_e -log PRC K_{PDMS} regression line (resulting in p-value > 0.05) were also treated as outliers. In these cases, the outlier PRC(s) were removed to obtain a p-value less than 0.05.

Step 2:

The second step was to estimate k_e values for the non-PRC PCBs (primary analyte PCBs) in the sample. This was accomplished by developing a linear regression model using PRC k_e values (dependent variable, from Table A4) and PDMS-water partition coefficients (K_{PDMS}) for each PCB. K_{PDMS} values were the independent variable and were obtained from Smedes et al. (2009) and provided in Table A5. Note, regressions were specific to each sample (i.e. not global to the whole deployment) as local geologic and hydrodynamic can vary greatly within a site.

Values were log₁₀-transformed per Tomaszewski and Luthy (2008). Models were developed for each sample. By entering the PCB-specific K_{PDMS} into the linear regression model developed for each sample, k_e values for each of the primary analyte PCBs for each sample were calculated. The p-value and r^2 for each sample-specific model is provided in Table A4 as measures of how well the linear PRC model performed.

Step 3:

Concentrations of some primary analyte PCBs in PDMS (derived from the PCB masses in Table A3 and PDMS masses in Table A1) were corrected for trace levels of primary analyte PCBs present in the Trip Blanks (due to trace levels present in the PRC spiking solutions). Using the sample specific k_e values, the expected amount of these trace primary analyte PCBs present in the sample at the end of deployment ($Trace PCB_{t=final}$) were calculated via the following equation:

$$[Trace PCB_{t=final}] = \frac{[Trace PCB_{t=0}]}{e^{k_e \times t_{final}}}$$

where:

$Trace PCB_{t=final}$ = the expected concentration of trace PCBs remaining in the sample at the end of the deployment;

$Trace PCB_{t=0}$ = the average concentration of the trace PCB in the PDMS at the beginning of the deployment;

k_e = the elimination rate value predicted by the sampler-specific regression model (in days⁻¹); and

t_{final} = the deployment time (in days).

Trace PCB $t=0$ values were obtained from an average measurement of the trace PCBs in the Trip Blanks. The concentrations of Trace PCBs in Trip Blanks were assumed to be zero when Trace PCBs were not detected.

Concentrations of *Trace PCB* $t=final$ values were then subtracted from the measured concentrations of primary analyte PCBs in PDMS (derived from the PCB masses in Table A3 and PDMS masses in Table A1).

Step 4:

This step describes the calculation of sampling rate correction factor (*CF*) for each primary analyte PCB in each sample. The following equation is used, as adapted from Lohmann (2012):

$$CF = \frac{1}{1 - e^{-k_e \times t_{final}}}$$

where:

- k_e = the elimination rate value predicted by the sample-specific regression model (in days⁻¹); and
- t_{final} = the deployment time (in days).

Step 5:

The concentration of PCBs in the PDMS of each sample (derived from the PCB masses in Table A3 and PDMS masses in Table A1, or values corrected for *Trace PCB* $t=final$) were multiplied by the *CF* values to calculate the steady-state concentration of PCBs.

Step 6:

In the final step, the steady-state concentrations are divided by K_{PDMS} values (Smedes et al., 2009) to obtain the concentrations of C_{free} PCBs. These are reported in Table 1. C_{free} Detection Limits (DLs) were calculated in the approach described above by dividing the estimated DL concentration in sample extracts, as reported by Frontier Analytical Laboratory and shown in Table A3, by the mass of PDMS extracted in each sample, as shown in Table A1.

The estimated detection limit (EDL) was used for non-detected results and the minimum level of quantitation (ML) was used for detected results. Cases in which the percentage of steady state was indicated to be less than 20% for a primary analyte PCB, a qualifier, “L”, was noted³. All other qualifiers, as reported in the original analytical results for PCB masses of each congener in each sampler extract (Attachment C of the Data Report), are carried through and reported in the C_{free} results. Table 1 also reports the sum of the detected C_{free} PCB congeners.

³ Differences in $t=0$ and $t=final$ concentrations of less than 10-20% may be within measurement error, as determined by general variability in PRCs in Trip Blank measurements. When a PCB reaches less than 10-20% of steady state in a sampler, C_{free} calculations are potentially affected by measurement uncertainty.

It should be noted that in some cases, corrections for impurity (subtracting the concentration of impurity from the detected PCB concentration in PDMS), leads to a concentration that is below the DL. In those cases, the estimated C_{free} values are not flagged with a J qualifier (although they are below the C_{free} DL).

An uncertainty analysis was conducted to evaluate the uncertainty in the estimation of CF values for each of the primary analytes. From the linear regression model using PRC k_e values (dependent variable, from Table A4) and PRC K_{PDMS} values (Step 2), upper and lower bound estimates for k_e values were obtained for each PCB analyte in each sample by calculating the lower and upper 80% confidence level (CL) model predictions for predicted k_e (Sokal and Rohlf, 1999). These 80% lower and upper CL k_e values were then used to calculate lower and upper CL CF values that were applied to calculate upper and lower CL values for C_{free} for each PCB congener in each sample (Steps 4 and 5). These lower and upper CL C_{free} values are shown in Table A6. Via summing the lower CL values for C_{free} for the PCB congeners, a lower CL value for the C_{free} total PCBs were calculated (Table A6). Via summing the upper CL values for C_{free} for the PCB congeners, an upper CL value for the C_{free} total PCBs were calculated (Table A6). The range between the lower and upper CL C_{free} values represents the range of values that would contain approximately 80% of possible C_{free} estimates calculated via the above approach. Expressed alternatively, there is 80% confidence the C_{free} value lies within that range.⁴

⁴ As indicated in the Year 3 Results section, this uncertainty analysis was not conducted for the sampler LDW-Y3-SC-ENR+AC-CB-S010-LONG due to insufficient usable PRC data

References Cited

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- Tomaszewski, J.E., and Luthy, R.G. 2008. Field deployment of polyethylene devices to measure PCB concentrations in pore water of contaminated sediment. *Environ. Sci. Technol.* 42:6086-6091.
- United States Environmental Protection Agency (USEPA). 2003. Table of PCB Species by Congener Number.

TABLE A1

Table A1. Fiber Details.

Sample ID	Sample Type	Mass of Vial, Empty (g)	Mass of Vial, with Fiber (g)	Mass of Fiber (g)	Length of Fiber, based on mass (cm)	Number of Fibers Included	Length of Fiber Trimmed ^[3] (cm)	Length of Fiber, Nominal (cm)	Recovery (%)	Volume of PDMS (µL)	Mass of PDMS (g)	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date	Average Exposure Duration (days)
LDW-Y3-SC-ENR+AC-CA-S010	Sample ^[1]	8.48575	12.68035	4.1946	61	6	0	60	101%	38.4	0.037	8/5/2020	9/24/2020	49
LDW-Y3-SC-ENR+AC-CB-S010	Sample	8.45988	12.66785	4.2080	61	6	0	60	102%	38.5	0.037	8/5/2020	9/24/2020	48
LDW-Y3-SC-ENR+AC-CC-S010	Sample	8.48987	12.65797	4.1681	60	6	0	60	101%	38.1	0.037	8/5/2020	9/24/2020	48
LDW-Y3-SC-ENR+AC-CA-S010-LONG	Sample	8.45818	12.67802	4.2198	61	6	0	60	102%	38.6	0.037	8/5/2020	9/24/2020	49
LDW-Y3-SC-ENR+AC-CB-S010-LONG	Sample	8.45558	12.65648	4.2009	61	6	0	60	101%	38.4	0.037	8/5/2020	9/24/2020	48
LDW-Y3-SC-ENR+AC-CC-S010-LONG	Sample	8.48644	12.66618	4.1797	61	6	0	60	101%	38.2	0.037	8/5/2020	9/24/2020	48
LDW-Y3-SC-ENR+AC-S010-DEP	Sample	8.41373	12.62311	4.2094	61	6	0	60	102%	38.5	0.037	8/11/2020	9/25/2020	45
LDW-Y3-SC-ENR-CA-S010	Sample	8.50057	12.71668	4.2161	61	6	0	60	102%	38.6	0.037	8/6/2020	9/24/2020	47
LDW-Y3-SC-ENR-CC-S010	Sample	8.46202	12.68235	4.2203	61	6	0	60	102%	38.6	0.037	8/6/2020	9/23/2020	46
LDW-Y3-SC-ENR-CD-S010	Sample	8.45645	12.67563	4.2192	61	6	0	60	102%	38.6	0.037	8/6/2020	9/24/2020	47
LDW-Y3-SC-ENR-CA-S010-LONG	Sample	8.52360	12.72596	4.2024	61	6	0	60	102%	38.4	0.037	8/6/2020	9/24/2020	47
LDW-Y3-SC-ENR-CC-S010-LONG	Sample	8.53873	12.73603	4.1973	61	6	0	60	101%	38.4	0.037	8/6/2020	9/23/2020	46
LDW-Y3-SC-ENR-CD-S010-LONG	Sample	8.55335	12.74195	4.1886	61	6	0	60	101%	38.3	0.037	8/6/2020	9/24/2020	47
LDW-Y3-SC-ENR-S010-DEP	Sample	8.36885	12.55758	4.1887	61	6	0	60	101%	38.3	0.037	8/11/2020	9/25/2020	45
LDW-Y3-SU-ENR+AC-CA-S010	Sample	8.39757	12.61136	4.2138	61	6	0	60	102%	38.5	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-ENR+AC-CC-S010	Sample	8.42160	12.57339	4.1518	60	6	0	60	100%	38.0	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-ENR+AC-CD-S010	Sample	8.39188	12.59238	4.2005	61	6	0	60	101%	38.4	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-ENR+AC-CA-S010-BIO	Sample	8.40658	12.59411	4.1875	61	6	0	60	101%	38.3	0.037	8/26/2020	9/23/2020	28
LDW-Y3-SU-ENR+AC-CB-S010-BIO	Sample	8.39927	12.52856	4.1293	60	6	0	60	100%	37.8	0.036	8/26/2020	9/23/2020	28
LDW-Y3-SU-ENR+AC-CC-S010-BIO	Sample ^[2]	8.42508	12.65021	4.2251	61	6	0	60	102%	38.6	0.037	8/26/2020	9/23/2020	28
LDW-Y3-SU-ENR-CA-S010	Sample	8.39207	12.60461	4.2125	61	6	0	60	102%	38.5	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-ENR-CB-S010	Sample	8.43359	12.61721	4.1836	61	6	0	60	101%	38.3	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-ENR-CC-S010	Sample	8.38645	12.56167	4.1752	61	6	0	60	101%	38.2	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-ENR-CA-S010-BIO	Sample	8.45268	12.66245	4.2098	61	6	0	60	102%	38.5	0.037	8/26/2020	9/23/2020	28
LDW-Y3-SU-ENR-CB-S010-BIO	Sample	8.40078	12.63155	4.2308	61	6	0	60	102%	38.7	0.037	8/26/2020	9/23/2020	28
LDW-Y3-SU-ENR-CC-S010-BIO	Sample	8.41687	12.61656	4.1997	61	6	0	60	101%	38.4	0.037	8/26/2020	9/23/2020	28
LDW-Y3-SU-S010-LCB	Lab Blank	8.40729	12.53138	4.1241	60	6	0	60	100%	37.7	0.036	7/24/2020	9/25/2020	63
LDW-Y3-LBS-WAT-S010-SPME	Sample	8.40265	12.57069	4.1680	60	6	0	60	101%	38.1	0.037	8/26/2020	9/23/2020	28
LDW-Y3-IN-ENR+AC-CA-S010	Sample	8.39546	11.87160	3.4761	50	5	0	50	101%	31.8	0.031	8/3/2020	9/16/2020	44
LDW-Y3-IN-ENR+AC-CB-S010	Sample	8.40633	12.57293	4.1666	60	6	0	60	101%	38.1	0.037	8/3/2020	9/16/2020	44
LDW-Y3-IN-ENR+AC-CC-S010	Sample	8.39051	11.91449	3.5240	51	5	0	50	102%	32.2	0.031	7/24/2020	9/25/2020	44
LDW-Y3-IN-ENR-CB-S010	Sample	8.47745	11.95916	3.4817	50	5	0	50	101%	31.8	0.031	8/3/2020	9/16/2020	44
LDW-Y3-IN-ENR-CC-S010	Sample	8.44270	11.91853	3.4758	50	5	0	50	101%	31.8	0.031	8/3/2020	9/16/2020	44
LDW-Y3-IN-ENR-CD-S010	Sample	8.47157	12.67468	4.2031	61	6	0	60	102%	38.4	0.037	8/3/2020	9/16/2020	44
LDW-Y3-EXTRA-S010-TB	Trip Blank	8.45070	12.65284	4.2021	61	6	0	60	102%	38.4	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SC-S010-TB	Trip Blank	8.40257	12.61693	4.2144	61	6	0	60	102%	38.5	0.037	7/24/2020	9/25/2020	63
LDW-Y3-SU-S010-TB	Trip Blank	8.40444	12.62481	4.2204	61	6	0	60	102%	38.6	0.037	7/24/2020	9/25/2020	63
LDW-Y3-IN-S010-TB	Trip Blank	8.43153	11.96043	3.5289	51	5	0	50	102%	32.3	0.031	7/24/2020	9/25/2020	63

Notes

- %: percent
- g: gram
- µL: microliter
- cm: centimeter

TABLE A2

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y3-SC-ENR-1-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	8/7/2020	9/24/2020	Y	48	47	8/6/2020	9/24/2020
LDW-Y3-SC-ENR-2-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-3-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	8/7/2020	9/23/2020	Y	47			
LDW-Y3-SC-ENR-4-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-5-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-6-E-S010-SPME	LDW-Y3-SC-ENR-CA-S010	8/6/2020	9/22/2020	Y	47			
LDW-Y3-SC-ENR-1-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	8/7/2020	9/22/2020	Y	46	46	8/6/2020	9/23/2020
LDW-Y3-SC-ENR-2-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	8/7/2020	9/22/2020	Y	46			
LDW-Y3-SC-ENR-3-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	8/7/2020	9/22/2020	Y	46			
LDW-Y3-SC-ENR-4-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-5-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-6-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	8/6/2020	9/22/2020	Y	47			
LDW-Y3-SC-ENR-1-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	8/7/2020	9/24/2020	Y	48	47	8/6/2020	9/24/2020
LDW-Y3-SC-ENR-2-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-3-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-4-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-5-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-6-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	8/6/2020	9/22/2020	Y	47			
LDW-Y3-SC-ENR-1-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	8/7/2020	9/24/2020	Y	48	47	8/6/2020	9/24/2020
LDW-Y3-SC-ENR-2-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-3-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	8/7/2020	9/23/2020	Y	47			
LDW-Y3-SC-ENR-4-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-5-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-6-E-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	8/6/2020	9/22/2020	Y	47			
LDW-Y3-SC-ENR-1-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	8/7/2020	9/22/2020	Y	46	46	8/6/2020	9/23/2020
LDW-Y3-SC-ENR-2-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	8/7/2020	9/22/2020	Y	46			
LDW-Y3-SC-ENR-3-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	8/7/2020	9/22/2020	Y	46			
LDW-Y3-SC-ENR-4-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-5-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-6-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	8/6/2020	9/22/2020	Y	47			
LDW-Y3-SC-ENR-1-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	8/7/2020	9/24/2020	Y	48	47	8/6/2020	9/24/2020
LDW-Y3-SC-ENR-2-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	8/7/2020	9/21/2020	Y	45			
LDW-Y3-SC-ENR-3-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-4-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-5-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR-6-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	8/6/2020	9/22/2020	Y	47			
LDW-Y3-SC-ENR+AC-1-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	8/5/2020	9/21/2020	Y	47	49	8/5/2020	9/24/2020
LDW-Y3-SC-ENR+AC-2-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	8/6/2020	9/24/2020	Y	49			
LDW-Y3-SC-ENR+AC-3-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-4-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR+AC-5-D-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-6-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-1-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	8/5/2020	9/21/2020	Y	47	48	8/5/2020	9/24/2020
LDW-Y3-SC-ENR+AC-2-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-3-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-4-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR+AC-5-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-6-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	8/5/2020	9/23/2020	Y	49			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y3-SC-ENR+AC-1-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	8/5/2020	9/21/2020	Y	47	48	8/5/2020	9/24/2020
LDW-Y3-SC-ENR+AC-2-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-3-D-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	8/5/2020	9/21/2020	Y	47			
LDW-Y3-SC-ENR+AC-4-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-5-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-6-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-1-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	8/5/2020	9/21/2020	Y	47	49	8/5/2020	9/24/2020
LDW-Y3-SC-ENR+AC-2-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	8/6/2020	9/24/2020	Y	49			
LDW-Y3-SC-ENR+AC-3-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-4-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR+AC-5-D-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-6-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-1-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	8/5/2020	9/21/2020	Y	47	48	8/5/2020	9/24/2020
LDW-Y3-SC-ENR+AC-2-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-3-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-4-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	8/6/2020	9/23/2020	Y	48			
LDW-Y3-SC-ENR+AC-5-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-6-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	8/5/2020	9/23/2020	Y	49			
LDW-Y3-SC-ENR+AC-1-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	8/5/2020	9/21/2020	Y	47	48	8/5/2020	9/24/2020
LDW-Y3-SC-ENR+AC-2-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-3-D-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	8/5/2020	9/21/2020	Y	47			
LDW-Y3-SC-ENR+AC-4-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	8/6/2020	9/21/2020	Y	46			
LDW-Y3-SC-ENR+AC-5-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	8/5/2020	9/24/2020	Y	50			
LDW-Y3-SC-ENR+AC-6-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	8/5/2020	9/24/2020	Y	50			
*	LDW-Y3-IN-ENR-CB-S010					44	8/3/2020	9/16/2020
LDW-Y3-IN-ENR-2-B-S010-SPME	LDW-Y3-IN-ENR-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-3-B-S010-SPME	LDW-Y3-IN-ENR-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-4-B-S010-SPME	LDW-Y3-IN-ENR-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-5-B-S010-SPME	LDW-Y3-IN-ENR-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-6-B-S010-SPME	LDW-Y3-IN-ENR-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-1-C-S010-SPME	LDW-Y3-IN-ENR-CC-S010	8/3/2020	9/16/2020	Y	44	44	8/3/2020	9/16/2020
*	LDW-Y3-IN-ENR-CC-S010							
LDW-Y3-IN-ENR-3-A-S010-SPME	LDW-Y3-IN-ENR-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-4-C-S010-SPME	LDW-Y3-IN-ENR-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-5-C-S010-SPME	LDW-Y3-IN-ENR-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-6-C-S010-SPME	LDW-Y3-IN-ENR-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-1-D-S010-SPME	LDW-Y3-IN-ENR-CD-S010	8/3/2020	9/16/2020	Y	44	44	8/3/2020	9/16/2020
LDW-Y3-IN-ENR-2-E-S010-SPME	LDW-Y3-IN-ENR-CD-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-3-D-S010-SPME	LDW-Y3-IN-ENR-CD-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-4-D-S010-SPME	LDW-Y3-IN-ENR-CD-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-5-D-S010-SPME	LDW-Y3-IN-ENR-CD-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR-6-D-S010-SPME	LDW-Y3-IN-ENR-CD-S010	8/3/2020	9/16/2020	Y	44			
*	LDW-Y3-IN-ENR+AC-CA-S010					44	8/3/2020	9/16/2020
LDW-Y3-IN-ENR+AC-2-A-S010-SPME	LDW-Y3-IN-ENR+AC-CA-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-3-E-S010-SPME	LDW-Y3-IN-ENR+AC-CA-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-4-A-S010-SPME	LDW-Y3-IN-ENR+AC-CA-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-5-A-S010-SPME	LDW-Y3-IN-ENR+AC-CA-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-6-A-S010-SPME	LDW-Y3-IN-ENR+AC-CA-S010	8/3/2020	9/16/2020	Y	44			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y3-IN-ENR+AC-1-B-S010-SPME	LDW-Y3-IN-ENR+AC-CB-S010	8/3/2020	9/16/2020	Y	44	44	8/3/2020	9/16/2020
LDW-Y3-IN-ENR+AC-2-E-S010-SPME	LDW-Y3-IN-ENR+AC-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-3-B-S010-SPME	LDW-Y3-IN-ENR+AC-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-4-B-S010-SPME	LDW-Y3-IN-ENR+AC-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-5-E-S010-SPME	LDW-Y3-IN-ENR+AC-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-6-B-S010-SPME	LDW-Y3-IN-ENR+AC-CB-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-1-C-S010-SPME	LDW-Y3-IN-ENR+AC-CC-S010	8/3/2020	9/16/2020	Y	44	44	7/24/2020	9/25/2020
LDW-Y3-IN-ENR+AC-2-C-S010-SPME	LDW-Y3-IN-ENR+AC-CC-S010	8/3/2020	9/16/2020	Y	44			
*	LDW-Y3-IN-ENR+AC-CC-S010							
LDW-Y3-IN-ENR+AC-4-C-S010-SPME	LDW-Y3-IN-ENR+AC-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-5-D-S010-SPME	LDW-Y3-IN-ENR+AC-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-IN-ENR+AC-6-C-S010-SPME	LDW-Y3-IN-ENR+AC-CC-S010	8/3/2020	9/16/2020	Y	44			
LDW-Y3-SU-ENR-1-A-S010-SPME	LDW-Y3-SU-ENR-CA-S010	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-SU-ENR-2-A-S010-SPME	LDW-Y3-SU-ENR-CA-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-3-A-S010-SPME	LDW-Y3-SU-ENR-CA-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-4-A-S010-SPME	LDW-Y3-SU-ENR-CA-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-5-A-S010-SPME	LDW-Y3-SU-ENR-CA-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-6-A-S010-SPME	LDW-Y3-SU-ENR-CA-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-1-B-S010-SPME	LDW-Y3-SU-ENR-CB-S010	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-SU-ENR-2-B-S010-SPME	LDW-Y3-SU-ENR-CB-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-3-B-S010-SPME	LDW-Y3-SU-ENR-CB-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-4-B-S010-SPME	LDW-Y3-SU-ENR-CB-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-5-B-S010-SPME	LDW-Y3-SU-ENR-CB-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-6-B-S010-SPME	LDW-Y3-SU-ENR-CB-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-1-C-S010-SPME	LDW-Y3-SU-ENR-CC-S010	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-SU-ENR-2-C-S010-SPME	LDW-Y3-SU-ENR-CC-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-3-C-S010-SPME	LDW-Y3-SU-ENR-CC-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-4-C-S010-SPME	LDW-Y3-SU-ENR-CC-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-5-C-S010-SPME	LDW-Y3-SU-ENR-CC-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-6-C-S010-SPME	LDW-Y3-SU-ENR-CC-S010	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-ENR-1-A-S010-SPME-BIO	LDW-Y3-SU-ENR-CA-S010-BIO	8/26/2020	9/23/2020	Y	28	28	8/26/2020	9/23/2020
LDW-Y3-SU-ENR-2-A-S010-SPME-BIO	LDW-Y3-SU-ENR-CA-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-3-A-S010-SPME-BIO	LDW-Y3-SU-ENR-CA-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-4-A-S010-SPME-BIO	LDW-Y3-SU-ENR-CA-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-5-A-S010-SPME-BIO	LDW-Y3-SU-ENR-CA-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-6-A-S010-SPME-BIO	LDW-Y3-SU-ENR-CA-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-1-B-S010-SPME-BIO	LDW-Y3-SU-ENR-CB-S010-BIO	8/26/2020	9/23/2020	Y	28	28	8/26/2020	9/23/2020
LDW-Y3-SU-ENR-2-B-S010-SPME-BIO	LDW-Y3-SU-ENR-CB-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-3-B-S010-SPME-BIO	LDW-Y3-SU-ENR-CB-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-4-B-S010-SPME-BIO	LDW-Y3-SU-ENR-CB-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-5-B-S010-SPME-BIO	LDW-Y3-SU-ENR-CB-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-6-B-S010-SPME-BIO	LDW-Y3-SU-ENR-CB-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-1-C-S010-SPME-BIO	LDW-Y3-SU-ENR-CC-S010-BIO	8/26/2020	9/23/2020	Y	28	28	8/26/2020	9/23/2020
LDW-Y3-SU-ENR-2-C-S010-SPME-BIO	LDW-Y3-SU-ENR-CC-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-3-C-S010-SPME-BIO	LDW-Y3-SU-ENR-CC-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-4-C-S010-SPME-BIO	LDW-Y3-SU-ENR-CC-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-5-C-S010-SPME-BIO	LDW-Y3-SU-ENR-CC-S010-BIO	8/26/2020	9/23/2020	Y	28			
LDW-Y3-SU-ENR-6-C-S010-SPME-BIO	LDW-Y3-SU-ENR-CC-S010-BIO	8/26/2020	9/23/2020	Y	28			

Table A2. Exposure Duration

Sample ID	Composite Sample ID	Deployment Date	Retrieval Date	Composited	Days	Average days	Earliest Sampler Deployment Date	Latest Sampler Retrieval Date
LDW-Y3-SC-TB-1-S010-SPME	LDW-Y3-SC-S010-TB	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-SC-TB-2-S010-SPME	LDW-Y3-SC-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SC-TB-3-S010-SPME	LDW-Y3-SC-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SC-TB-4-S010-SPME	LDW-Y3-SC-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SC-TB-5-S010-SPME	LDW-Y3-SC-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SC-TB-6-S010-SPME	LDW-Y3-SC-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-TB-1-S010-SPME	LDW-Y3-SU-S010-TB	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-SU-TB-2-S010-SPME	LDW-Y3-SU-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-TB-3-S010-SPME	LDW-Y3-SU-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-TB-4-S010-SPME	LDW-Y3-SU-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-TB-5-S010-SPME	LDW-Y3-SU-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SU-TB-6-S010-SPME	LDW-Y3-SU-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-IN-TB-1-S010-SPME	LDW-Y3-IN-S010-TB	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-IN-TB-2-S010-SPME	LDW-Y3-IN-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-IN-TB-3-S010-SPME	LDW-Y3-IN-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-IN-TB-4-S010-SPME	LDW-Y3-IN-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-IN-TB-5-S010-SPME	LDW-Y3-IN-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-IN-TB-6-S010-SPME	LDW-Y3-IN-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-EXTRA-1-S010-TB	LDW-Y3-EXTRA-S010-TB	7/24/2020	9/25/2020	Y	63	63	7/24/2020	9/25/2020
LDW-Y3-EXTRA-2-S010-TB	LDW-Y3-EXTRA-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-EXTRA-3-S010-TB	LDW-Y3-EXTRA-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-EXTRA-4-S010-TB	LDW-Y3-EXTRA-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-EXTRA-5-S010-TB	LDW-Y3-EXTRA-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-EXTRA-6-S010-TB	LDW-Y3-EXTRA-S010-TB	7/24/2020	9/25/2020	Y	63			
LDW-Y3-SC-ENR+AC-1-S010-SPME-DEP	LDW-Y3-SC-ENR+AC-S010-DEP	8/11/2020	9/25/2020	Y	45	45	8/11/2020	9/25/2020
LDW-Y3-SC-ENR+AC-2-S010-SPME-DEP	LDW-Y3-SC-ENR+AC-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR+AC-3-S010-SPME-DEP	LDW-Y3-SC-ENR+AC-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR+AC-4-S010-SPME-DEP	LDW-Y3-SC-ENR+AC-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR+AC-5-S010-SPME-DEP	LDW-Y3-SC-ENR+AC-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR+AC-6-S010-SPME-DEP	LDW-Y3-SC-ENR+AC-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR-1-S010-SPME-DEP	LDW-Y3-SC-ENR-S010-DEP	8/11/2020	9/25/2020	Y	45	45	8/11/2020	9/25/2020
LDW-Y3-SC-ENR-2-S010-SPME-DEP	LDW-Y3-SC-ENR-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR-3-S010-SPME-DEP	LDW-Y3-SC-ENR-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR-4-S010-SPME-DEP	LDW-Y3-SC-ENR-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR-5-S010-SPME-DEP	LDW-Y3-SC-ENR-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-SC-ENR-6-S010-SPME-DEP	LDW-Y3-SC-ENR-S010-DEP	8/11/2020	9/25/2020	Y	45			
LDW-Y3-LBS-WAT-1-S010-SPME	LDW-Y3-LBS-WAT-S010-SPME	8/26/2020	9/23/2020	Y	28	28	8/26/2020	9/23/2020
LDW-Y3-LBS-WAT-2-S010-SPME	LDW-Y3-LBS-WAT-S010-SPME	8/26/2020	9/23/2020	Y	28			
LDW-Y3-LBS-WAT-3-S010-SPME	LDW-Y3-LBS-WAT-S010-SPME	8/26/2020	9/23/2020	Y	28			
LDW-Y3-LBS-WAT-4-S010-SPME	LDW-Y3-LBS-WAT-S010-SPME	8/26/2020	9/23/2020	Y	28			
LDW-Y3-LBS-WAT-5-S010-SPME	LDW-Y3-LBS-WAT-S010-SPME	8/26/2020	9/23/2020	Y	28			
LDW-Y3-LBS-WAT-6-S010-SPME	LDW-Y3-LBS-WAT-S010-SPME	8/26/2020	9/23/2020	Y	28			

Note: * indicates SPME was not recovered and no archives were available for substitution

TABLE A3

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010			LDW-Y3-SC-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	6.86		U	6.25
PCB-2	Mono			U	7.42		U	6.67
PCB-3	Mono			U	7.93		U	7.03
PCB-4	Di		123		20	49.3		20
PCB-5	Di			U	12.3		U	10.1
PCB-6	Di		56.4		20	33.5		20
PCB-7	Di			U	11.3		U	9.33
PCB-8	Di		234		20	136		20
PCB-9	Di		22.8		20		U	9.67
PCB-10	Di			U	11.6		U	9.53
PCB-11	Di		43.1		20	41.6		20
PCB-12	Di			U	12.1		U	9.95
PCB-13	Di			U	12.3		U	10.1
PCB-14	Di	PRC	673		20	760		20
PCB-15	Di		57.1		20	30		20
PCB-16	Tri		326		20	216		20
PCB-17	Tri		460		20	324		20
PCB-18	Tri		980		20	780		20
PCB-19	Tri		152		20	88.2		20
PCB-20	Tri		548	C	20	409	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		252		20	208		20
PCB-23	Tri			U	9.84		U	8.6
PCB-24	Tri		59.9		20	40.5		20
PCB-25	Tri		88.2		20	78.6		20
PCB-26	Tri		181		20	158		20
PCB-27	Tri		45.3		20	36.5		20
PCB-28	Tri		734		20	548		20
PCB-29	Tri			U	10.1		U	8.86
PCB-30	Tri			U	13.1		U	10.3
PCB-31	Tri		650		20	510		20
PCB-32	Tri		362		20	225		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	10.4		U	9.06
PCB-35	Tri			U	10.1		U	8.84
PCB-36	Tri	PRC	956		20	1020		20
PCB-37	Tri		118		20	117		20
PCB-38	Tri			U	10.2		U	8.95
PCB-39	Tri			U	9.81		U	8.57
PCB-40	Tetra		177		20	131		20
PCB-41	Tetra		750	C	20	631	C	20
PCB-42	Tetra		344	C	20	288	C	20
PCB-43	Tetra		906	C	20	745	C	20
PCB-44	Tetra		906		20	690		20
PCB-45	Tetra		237		20	179		20
PCB-46	Tetra		102		20	75.4		20
PCB-47	Tetra		332		20	250		20
PCB-48	Tetra		225	C	20	175	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	11.5	15.6	J	20
PCB-51	Tetra		86		20	61.1		20
PCB-52	Tetra		1140	C	20	919	C	20
PCB-53	Tetra		233		20	190		20
PCB-54	Tetra			U	8.99		U	9.25
PCB-55	Tetra		66.6		20	64.6		20
PCB-56	Tetra		451	C	20	395	C	20
PCB-57	Tetra		11.6	J	20		U	8.93
PCB-58	Tetra			U	8.83		U	9.08
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		742	C	20	626	C	20
PCB-62	Tetra			U	9.57		U	9.85
PCB-63	Tetra		32.9		20	27.5		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	9.21		U	9.48
PCB-66	Tetra		578	C	20	499	C	20
PCB-67	Tetra		40.9		20	24.3		20
PCB-68	Tetra		18.9	J	20	17.2	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		33		20	25.1		20
PCB-74	Tetra		326		20	272		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		38.1		20	36.7		20
PCB-78	Tetra	PRC	3420		20	3400		20
PCB-79	Tetra		12.4	J	20		U	8.7
PCB-80	Tetra		14.1	J	20	12.1	J	20
PCB-81	Tetra		13.9	J	20	24.9		20
PCB-82	Penta		80.8		20	85.8		20
PCB-83	Penta		43.3	C	20	40	C	20
PCB-84	Penta		450	C	20	461	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CC-S010			LDW-Y3-SC-ENR+AC-CA-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	8.09	14.4	J	20
PCB-2	Mono			U	8.52		U	6.78
PCB-3	Mono			U	9.09		U	7.34
PCB-4	Di		84.3		20	66.7		20
PCB-5	Di			U	13.8		U	11.9
PCB-6	Di		52.9		20	17.9	J	20
PCB-7	Di		19.3	J	20		U	11
PCB-8	Di		171		20	83.1		20
PCB-9	Di			U	14		U	11.4
PCB-10	Di			U	13.1		U	11.2
PCB-11	Di		65.2		20	60.1		20
PCB-12	Di			U	14.4		U	11.7
PCB-13	Di			U	13.5		U	11.9
PCB-14	Di	PRC	660		20	1000		20
PCB-15	Di		55.6		20	23.3		20
PCB-16	Tri		219		20	114		20
PCB-17	Tri		385		20	171		20
PCB-18	Tri		829		20	433		20
PCB-19	Tri		92.7		20	59.8		20
PCB-20	Tri		461	C	20	213	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		240		20	115		20
PCB-23	Tri			U	10.1		U	8.77
PCB-24	Tri		41		20	27.9		20
PCB-25	Tri		89.3		20	42.4		20
PCB-26	Tri		155		20	81.9		20
PCB-27	Tri		41.3		20	26.6		20
PCB-28	Tri		610		20	321		20
PCB-29	Tri			U	9.7		U	9.04
PCB-30	Tri			U	12.3		U	9.85
PCB-31	Tri		730		20	263		20
PCB-32	Tri		311		20	138		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	10		U	9.24
PCB-35	Tri			U	9.52		U	9.02
PCB-36	Tri	PRC	866		20	1190		20
PCB-37	Tri		127		20	74.1		20
PCB-38	Tri			U	9.05		U	9.12
PCB-39	Tri			U	9.5		U	8.74
PCB-40	Tetra		221		20	108		20
PCB-41	Tetra		931	C	20	465	C	20
PCB-42	Tetra		434	C	20	225	C	20
PCB-43	Tetra		1090	C	20	562	C	20
PCB-44	Tetra		1050		20	531		20
PCB-45	Tetra		307		20	138		20
PCB-46	Tetra		115		20	62.1		20
PCB-47	Tetra		460		20	220		20
PCB-48	Tetra		257	C	20	120	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		19.5	J	20	13.3	J	20
PCB-51	Tetra		105		20	65.3		20
PCB-52	Tetra		1460	C	20	743	C	20
PCB-53	Tetra		255		20	150		20
PCB-54	Tetra			U	11.9		U	7.09
PCB-55	Tetra		67.2		20	58.3		20
PCB-56	Tetra		477	C	20	264	C	20
PCB-57	Tetra			U	11.3		U	6.84
PCB-58	Tetra			U	11.3		U	6.96
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		950	C	20	447	C	20
PCB-62	Tetra			U	11.5		U	7.55
PCB-63	Tetra		55.6		20	21.6		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	11.4		U	7.26
PCB-66	Tetra		760	C	20	380	C	20
PCB-67	Tetra		53.4		20	24.8		20
PCB-68	Tetra		27		20	13.4	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		31.3		20	30.9		20
PCB-74	Tetra		436		20	208		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		46.2		20	23.9		20
PCB-78	Tetra	PRC	3040		20	4360		20
PCB-79	Tetra			U	11		U	9.87
PCB-80	Tetra			U	9.95		U	5.72
PCB-81	Tetra			U	10.9		U	10.1
PCB-82	Penta		146		20	64.2		20
PCB-83	Penta		57.4	C	20	32.7	C	20
PCB-84	Penta		558	C	20	369	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CB-S010-LONG			LDW-Y3-SC-ENR+AC-CC-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	7.28		U	4.52
PCB-2	Mono			U	7.58		U	4.59
PCB-3	Mono			U	8.03		U	4.75
PCB-4	Di		30.5		20	93.6		20
PCB-5	Di			U	12.5		U	7.61
PCB-6	Di		26.4		20	62.9		20
PCB-7	Di			U	12.1	11.2	J	20
PCB-8	Di		101		20	255		20
PCB-9	Di			U	12.7	17.1	J	20
PCB-10	Di			U	11.8		U	7.22
PCB-11	Di		60.7		20	47.2		20
PCB-12	Di			U	13.1		U	7.97
PCB-13	Di			U	12.2		U	7.45
PCB-14	Di	PRC	713		20	846		20
PCB-15	Di		47.7		20	70.2		20
PCB-16	Tri		147		20	220		20
PCB-17	Tri		206		20	396		20
PCB-18	Tri		471		20	950		20
PCB-19	Tri		50.3		20	99.6		20
PCB-20	Tri		305	C	20	535	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		175		20	257		20
PCB-23	Tri			U	7.39		U	9.54
PCB-24	Tri		29.4		20	43		20
PCB-25	Tri		67.7		20	93.6		20
PCB-26	Tri		112		20	158		20
PCB-27	Tri		23.5		20	44.1		20
PCB-28	Tri		454		20	720		20
PCB-29	Tri			U	7.09		U	9.15
PCB-30	Tri			U	9.16		U	8.84
PCB-31	Tri		478		20	743		20
PCB-32	Tri		150		20	341		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	7.33		U	9.47
PCB-35	Tri			U	6.96		U	8.98
PCB-36	Tri	PRC	1120		20	1080		20
PCB-37	Tri		104		20	128		20
PCB-38	Tri			U	6.61		U	8.54
PCB-39	Tri			U	6.94		U	8.97
PCB-40	Tetra		145		20	146		20
PCB-41	Tetra		553	C	20	683	C	20
PCB-42	Tetra		261	C	20	325	C	20
PCB-43	Tetra		679	C	20	769	C	20
PCB-44	Tetra		630		20	757		20
PCB-45	Tetra		167		20	203		20
PCB-46	Tetra		72.6		20	77.6		20
PCB-47	Tetra		266		20	286		20
PCB-48	Tetra		150	C	20	191	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		19.3	J	20	16.1	J	20
PCB-51	Tetra		82.6		20	89.5		20
PCB-52	Tetra		886	C	20	976	C	20
PCB-53	Tetra		190		20	222		20
PCB-54	Tetra			U	9		U	6.05
PCB-55	Tetra		63.6		20	61.3		20
PCB-56	Tetra		306	C	20	360	C	20
PCB-57	Tetra		11.9	J	20		U	5.7
PCB-58	Tetra			U	8.54		U	5.74
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		577	C	20	673	C	20
PCB-62	Tetra			U	8.67		U	5.83
PCB-63	Tetra		34.4		20	34.6		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	8.59		U	5.78
PCB-66	Tetra		489	C	20	562	C	20
PCB-67	Tetra		34.1		20	30.3		20
PCB-68	Tetra		20.8		20	17.5	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		26.8		20	37.7		20
PCB-74	Tetra		259		20	305		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		41.4		20	42.5		20
PCB-78	Tetra	PRC	4640		20	3690		20
PCB-79	Tetra			U	7.31	8.75	J	20
PCB-80	Tetra		17.4	J	20	14.2	J	20
PCB-81	Tetra		15	J	20	20.1		20
PCB-82	Penta		85.5		20	75.1		20
PCB-83	Penta		34.8	C	20	33.9	C	20
PCB-84	Penta		414	C	20	410	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP			LDW-Y3-SC-ENR-CA-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	5.51		U	3.79
PCB-2	Mono			U	6.06		U	4.11
PCB-3	Mono			U	6.66		U	4.46
PCB-4	Di		60.6		20	110		20
PCB-5	Di			U	11		U	7.94
PCB-6	Di		46.4		20	60		20
PCB-7	Di			U	10.7		U	7.78
PCB-8	Di		160		20	246		20
PCB-9	Di			U	11.3		U	8.15
PCB-10	Di			U	10.2		U	7.41
PCB-11	Di		57		20	41.6		20
PCB-12	Di			U	12		U	8.67
PCB-13	Di			U	11.6		U	8.42
PCB-14	Di	PRC	1100		20	1170		20
PCB-15	Di		75.4		20	64.3		20
PCB-16	Tri		178		20	234		20
PCB-17	Tri		267		20	334		20
PCB-18	Tri		702		20	809		20
PCB-19	Tri		89		20	121		20
PCB-20	Tri		395	C	20	414	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		200		20	206		20
PCB-23	Tri			U	7.86		U	6.02
PCB-24	Tri		16.2	J	20	33.9		20
PCB-25	Tri		93.1		20	91.1		20
PCB-26	Tri		165		20	146		20
PCB-27	Tri		67		20	61.5		20
PCB-28	Tri		593		20	637		20
PCB-29	Tri			U	7.51		U	5.76
PCB-30	Tri			U	5.92		U	3.85
PCB-31	Tri		628		20	607		20
PCB-32	Tri		228		20	285		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	7.6		U	5.82
PCB-35	Tri			U	7.82		U	6
PCB-36	Tri	PRC	1230		20	1130		20
PCB-37	Tri		128		20	106		20
PCB-38	Tri			U	7.41		U	5.68
PCB-39	Tri			U	7.35		U	5.63
PCB-40	Tetra		141		20	111		20
PCB-41	Tetra		617	C	20	496	C	20
PCB-42	Tetra		305	C	20	247	C	20
PCB-43	Tetra		769	C	20	565	C	20
PCB-44	Tetra		724		20	583		20
PCB-45	Tetra		189		20	164		20
PCB-46	Tetra		83.3		20	68.5		20
PCB-47	Tetra		293		20	206		20
PCB-48	Tetra		162	C	20	139	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	9.7	17.2	J	20
PCB-51	Tetra		88.3		20	59.1		20
PCB-52	Tetra		1030	C	20	839	C	20
PCB-53	Tetra		213		20	163		20
PCB-54	Tetra			U	7.73		U	7.12
PCB-55	Tetra		67.1		20	55.9		20
PCB-56	Tetra		391	C	20	285	C	20
PCB-57	Tetra			U	7.45		U	6.86
PCB-58	Tetra			U	7.48		U	6.89
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		601	C	20	488	C	20
PCB-62	Tetra			U	8.48		U	7.8
PCB-63	Tetra		27.1		20	21.3		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	7.5		U	6.91
PCB-66	Tetra		490	C	20	410	C	20
PCB-67	Tetra		24.5		20	21.7		20
PCB-68	Tetra		16.9	J	20	16.3	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		27.8		20		U	6.6
PCB-74	Tetra		275		20	214		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		35.6		20	27.1		20
PCB-78	Tetra	PRC	4210		20	3490		20
PCB-79	Tetra		15.9	J	20		U	6.85
PCB-80	Tetra		13.6	J	20	14.1	J	20
PCB-81	Tetra			U	10.1	13.8	J	20
PCB-82	Penta		89.5		20	72.5		20
PCB-83	Penta		45.3	C	20	35.2	C	20
PCB-84	Penta		503	C	20	394	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CC-S010			LDW-Y3-SC-ENR-CD-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	5.5		U	5.97
PCB-2	Mono			U	5.52		U	6.4
PCB-3	Mono			U	6.1		U	6.87
PCB-4	Di		180		20	138		20
PCB-5	Di			U	9		U	5.01
PCB-6	Di		128		20	79.7		20
PCB-7	Di		28.7		20	10.2	J	20
PCB-8	Di		516		20	332		20
PCB-9	Di		17.3	J	20	21		20
PCB-10	Di			U	7.95		U	4.68
PCB-11	Di		58		20	60.3		20
PCB-12	Di		12	J	20	10.8	J	20
PCB-13	Di		17.8	J	20	10.6	J	20
PCB-14	Di	PRC	960		20	850		20
PCB-15	Di		128		20	85.7		20
PCB-16	Tri		549		20	338		20
PCB-17	Tri		853		20	459		20
PCB-18	Tri		2120		20	1140		20
PCB-19	Tri		235		20	169		20
PCB-20	Tri		1130	C	20	574	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		566		20	288		20
PCB-23	Tri			U	8.77		U	7.79
PCB-24	Tri		111		20	64.9		20
PCB-25	Tri		190		20	116		20
PCB-26	Tri		330		20	207		20
PCB-27	Tri		86		20	55.2		20
PCB-28	Tri		1560		20	741		20
PCB-29	Tri		18.4	J	20	11.4	J	20
PCB-30	Tri			U	8.72		U	8.12
PCB-31	Tri		1460		20	874		20
PCB-32	Tri		675		20	387		20
PCB-33	Tri			C020			C020	
PCB-34	Tri		14.7	J	20		U	7.53
PCB-35	Tri		19.2	J	20		U	7.76
PCB-36	Tri	PRC	985		20	943		20
PCB-37	Tri		276		20	139		20
PCB-38	Tri		11	J	20		U	7.35
PCB-39	Tri			U	9.56		U	7.28
PCB-40	Tetra		235		20	138		20
PCB-41	Tetra		1070	C	20	595	C	20
PCB-42	Tetra		504	C	20	295	C	20
PCB-43	Tetra		1140	C	20	723	C	20
PCB-44	Tetra		1260		20	716		20
PCB-45	Tetra		325		20	214		20
PCB-46	Tetra		145		20	85.8		20
PCB-47	Tetra		425		20	233		20
PCB-48	Tetra		322	C	20	171	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		13.7	J	20	12.4	J	20
PCB-51	Tetra		122		20	76		20
PCB-52	Tetra		1500	C	20	969	C	20
PCB-53	Tetra		349		20	209		20
PCB-54	Tetra		12.1	J	20		U	7.58
PCB-55	Tetra		76.3		20	57.9		20
PCB-56	Tetra		609	C	20	375	C	20
PCB-57	Tetra			U	6.5		U	7.31
PCB-58	Tetra			U	6.83		U	7.34
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		1030	C	20	579	C	20
PCB-62	Tetra			U	7.29		U	8.32
PCB-63	Tetra		39.3		20	26.7		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	6.43		U	7.36
PCB-66	Tetra		809	C	20	490	C	20
PCB-67	Tetra		50.8		20	25.4		20
PCB-68	Tetra		24.3		20	19.1	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		33.6		20	20.4		20
PCB-74	Tetra		482		20	248		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		62.7		20	42.7		20
PCB-78	Tetra	PRC	3330		20	3100		20
PCB-79	Tetra		11.4	J	20	11.7	J	20
PCB-80	Tetra		32.7		20	12.7	J	20
PCB-81	Tetra		31.7		20	16.6	J	20
PCB-82	Penta		93.5		20	90.9		20
PCB-83	Penta		48.3	C	20	37.1	C	20
PCB-84	Penta		514	C	20	439	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CA-S010-LONG			LDW-Y3-SC-ENR-CC-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	3.71		U	5.96
PCB-2	Mono			U	4.02		U	6.39
PCB-3	Mono			U	4.35		U	6.86
PCB-4	Di		154		20	150		20
PCB-5	Di			U	8.33		U	5.72
PCB-6	Di		84.4		20	88.4		20
PCB-7	Di			U	8.16	18.6	J	20
PCB-8	Di		333		20	376		20
PCB-9	Di		23.4		20	18.8	J	20
PCB-10	Di			U	7.78		U	5.34
PCB-11	Di		36.3		20	39.1		20
PCB-12	Di			U	9.1		U	6.25
PCB-13	Di			U	8.83	12.8	J	20
PCB-14	Di	PRC	644		20	600		20
PCB-15	Di		91.9		20	94.6		20
PCB-16	Tri		261		20	339		20
PCB-17	Tri		427		20	551		20
PCB-18	Tri		1090		20	1340		20
PCB-19	Tri		154		20	181		20
PCB-20	Tri		556	C	20	589	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		291		20	285		20
PCB-23	Tri			U	8.28		U	8.89
PCB-24	Tri		52.6		20	70.7		20
PCB-25	Tri		118		20	126		20
PCB-26	Tri		203		20	219		20
PCB-27	Tri		69.5		20	82.2		20
PCB-28	Tri		822		20	886		20
PCB-29	Tri			U	7.91		U	8.5
PCB-30	Tri			U	8.48		U	8.41
PCB-31	Tri		873		20	974		20
PCB-32	Tri		405		20	479		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	8		U	8.6
PCB-35	Tri			U	8.24		U	8.85
PCB-36	Tri	PRC	799		20	689		20
PCB-37	Tri		152		20	162		20
PCB-38	Tri			U	7.81		U	8.39
PCB-39	Tri			U	7.74		U	8.31
PCB-40	Tetra		163		20	154		20
PCB-41	Tetra		718	C	20	703	C	20
PCB-42	Tetra		350	C	20	317	C	20
PCB-43	Tetra		839	C	20	795	C	20
PCB-44	Tetra		831		20	791		20
PCB-45	Tetra		244		20	220		20
PCB-46	Tetra		106		20	90.8		20
PCB-47	Tetra		297		20	268		20
PCB-48	Tetra		197	C	20	184	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		16.3	J	20	12.4	J	20
PCB-51	Tetra		90.7		20	81		20
PCB-52	Tetra		1150	C	20	1060	C	20
PCB-53	Tetra		249		20	236		20
PCB-54	Tetra			U	5.47	11	J	20
PCB-55	Tetra		68		20	46.4		20
PCB-56	Tetra		464	C	20	447	C	20
PCB-57	Tetra			U	5.27		U	5.78
PCB-58	Tetra			U	5.3		U	5.81
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		697	C	20	679	C	20
PCB-62	Tetra			U	6		U	6.58
PCB-63	Tetra		33.3		20	27.2		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.31		U	5.82
PCB-66	Tetra		580	C	20	543	C	20
PCB-67	Tetra		27.6		20	28.1		20
PCB-68	Tetra		13.7	J	20	14.6	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		19.7	J	20	20.6		20
PCB-74	Tetra		314		20	287		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		48.6		20	50.1		20
PCB-78	Tetra	PRC	3220		20	2770		20
PCB-79	Tetra		14.6	J	20	10.5	J	20
PCB-80	Tetra		11.4	J	20	10.5	J	20
PCB-81	Tetra		29.3		20	21		20
PCB-82	Penta		97.7		20	93.6		20
PCB-83	Penta		45.8	C	20	40.5	C	20
PCB-84	Penta		504	C	20	505	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG			LDW-Y3-SC-ENR-S010-DEP		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		6.95	J	20	9.65	J	20
PCB-2	Mono			U	3.42		U	4.75
PCB-3	Mono			U	3.87		U	5.38
PCB-4	Di		142		20	140		20
PCB-5	Di			U	8.11		U	8.99
PCB-6	Di		89		20	90.6		20
PCB-7	Di		16.4	J	20	14.8	J	20
PCB-8	Di		382		20	312		20
PCB-9	Di		24.7		20	18.5	J	20
PCB-10	Di			U	7.16		U	7.94
PCB-11	Di		31.9		20	65		20
PCB-12	Di			U	8.65	12.9	J	20
PCB-13	Di			U	9.03	12.5	J	20
PCB-14	Di	PRC	583		20	820		20
PCB-15	Di		92.1		20	104		20
PCB-16	Tri		558		20	370		20
PCB-17	Tri		728		20	519		20
PCB-18	Tri		1890		20	1330		20
PCB-19	Tri		197		20	172		20
PCB-20	Tri		1010	C	20	579	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		500		20	314		20
PCB-23	Tri			U	5.83		U	10.1
PCB-24	Tri		90.3		20	72.6		20
PCB-25	Tri		158		20	113		20
PCB-26	Tri		288		20	199		20
PCB-27	Tri		85.9		20	68.1		20
PCB-28	Tri		1390		20	962		20
PCB-29	Tri			U	5.64		U	9.8
PCB-30	Tri			U	7.29		U	9.56
PCB-31	Tri		1340		20	844		20
PCB-32	Tri		544		20	420		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	6.49		U	11.3
PCB-35	Tri			U	6.04	16.8	J	20
PCB-36	Tri	PRC	878		20	963		20
PCB-37	Tri		230		20	182		20
PCB-38	Tri			U	5.66		U	9.83
PCB-39	Tri			U	6.36		U	11
PCB-40	Tetra		224		20	173		20
PCB-41	Tetra		889	C	20	783	C	20
PCB-42	Tetra		418	C	20	374	C	20
PCB-43	Tetra		941	C	20	931	C	20
PCB-44	Tetra		1060		20	922		20
PCB-45	Tetra		310		20	238		20
PCB-46	Tetra		133		20	104		20
PCB-47	Tetra		335		20	366		20
PCB-48	Tetra		261	C	20	216	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		13.7	J	20	18.4	J	20
PCB-51	Tetra		110		20	110		20
PCB-52	Tetra		1290	C	20	1260	C	20
PCB-53	Tetra		328		20	282		20
PCB-54	Tetra		12.3	J	20	10.2	J	20
PCB-55	Tetra		57.5		20	72.1		20
PCB-56	Tetra		456	C	20	429	C	20
PCB-57	Tetra		9.84	J	20		U	7.18
PCB-58	Tetra			U	5.47		U	7.54
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		803	C	20	775	C	20
PCB-62	Tetra			U	5.84		U	8.05
PCB-63	Tetra		32.3		20	34		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.15		U	7.1
PCB-66	Tetra		639	C	20	620	C	20
PCB-67	Tetra		36.3		20	38.8		20
PCB-68	Tetra		19.8	J	20	26		20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		28.6		20	35.6		20
PCB-74	Tetra		366		20	356		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		45.1		20	53.2		20
PCB-78	Tetra	PRC	3130		20	3250		20
PCB-79	Tetra			U	7.44	11.9	J	20
PCB-80	Tetra		17	J	20	19.1	J	20
PCB-81	Tetra		18.3	J	20	21.9		20
PCB-82	Penta		75.8		20	83.1		20
PCB-83	Penta		38.3	C	20	42.2	C	20
PCB-84	Penta		425	C	20	440	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CA-S010			LDW-Y3-SU-ENR+AC-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		99.3		20	11.7	J	20
PCB-2	Mono			U	3.47		U	3.14
PCB-3	Mono		18.1	J	20		U	3.66
PCB-4	Di		508		20	209		20
PCB-5	Di			U	8.04		U	5.94
PCB-6	Di		331		20	132		20
PCB-7	Di		46		20	23.4		20
PCB-8	Di		699		20	370		20
PCB-9	Di		54.7		20	21.9		20
PCB-10	Di		35.3		20	11.8	J	20
PCB-11	Di		55		20	34.1		20
PCB-12	Di			U	8.58		U	6.34
PCB-13	Di		22.7		20	16	J	20
PCB-14	Di	PRC	643		20	465		20
PCB-15	Di		118		20	93.3		20
PCB-16	Tri		638		20	487		20
PCB-17	Tri		1310		20	816		20
PCB-18	Tri		3350		20	2060		20
PCB-19	Tri		399		20	211		20
PCB-20	Tri		826	C	20	792	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		413		20	439		20
PCB-23	Tri			U	7.37		U	6.81
PCB-24	Tri		141		20	99.3		20
PCB-25	Tri		271		20	189		20
PCB-26	Tri		482		20	353		20
PCB-27	Tri		116		20	84.7		20
PCB-28	Tri		1390		20	1300		20
PCB-29	Tri		12.2	J	20	12.7	J	20
PCB-30	Tri			U	8.02		U	6.99
PCB-31	Tri		1510		20	1350		20
PCB-32	Tri		1020		20	573		20
PCB-33	Tri			C020			C020	
PCB-34	Tri		25.9		20	18.2	J	20
PCB-35	Tri		14.1	J	20		U	7.05
PCB-36	Tri	PRC	710		20	574		20
PCB-37	Tri		183		20	194		20
PCB-38	Tri		18.2	J	20		U	6.61
PCB-39	Tri			U	8.04		U	7.42
PCB-40	Tetra		359		20	311		20
PCB-41	Tetra		1660	C	20	1420	C	20
PCB-42	Tetra		812	C	20	612	C	20
PCB-43	Tetra		2520	C	20	1730	C	20
PCB-44	Tetra		2290		20	1790		20
PCB-45	Tetra		490		20	351		20
PCB-46	Tetra		215		20	147		20
PCB-47	Tetra		812		20	588		20
PCB-48	Tetra		501	C	20	392	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		21.7		20	15.6	J	20
PCB-51	Tetra		184		20	145		20
PCB-52	Tetra		3460	C	20	2540	C	20
PCB-53	Tetra		578		20	404		20
PCB-54	Tetra		13.2	J	20	12.5	J	20
PCB-55	Tetra		65		20	62.2		20
PCB-56	Tetra		650	C	20	677	C	20
PCB-57	Tetra		19.4	J	20	14.8	J	20
PCB-58	Tetra		17	J	20	11.2	J	20
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		1580	C	20	1490	C	20
PCB-62	Tetra			U	8.34		U	7.3
PCB-63	Tetra		71.7		20	55.2		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	7.36		U	6.44
PCB-66	Tetra		1170	C	20	1030	C	20
PCB-67	Tetra		70.9		20	52.4		20
PCB-68	Tetra		36.7		20	24.7		20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		50.3		20	31.6		20
PCB-74	Tetra		687		20	651		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		58.4		20	61		20
PCB-78	Tetra	PRC	2390		20	1840		20
PCB-79	Tetra		21.1		20	19.2	J	20
PCB-80	Tetra		18.1	J	20	29.3		20
PCB-81	Tetra		26.2		20	38.2		20
PCB-82	Penta		173		20	182		20
PCB-83	Penta		109	C	20	89.5	C	20
PCB-84	Penta		1160	C	20	841	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CD-S010			LDW-Y3-SU-ENR+AC-CA-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		20.3		20	45.8		20
PCB-2	Mono			U	4.37		U	4.78
PCB-3	Mono			U	5.21		U	5.44
PCB-4	Di		268		20	211		20
PCB-5	Di			U	8.01		U	9.57
PCB-6	Di		164		20	116		20
PCB-7	Di		25.3		20	17.1	J	20
PCB-8	Di		451		20	239		20
PCB-9	Di		30.6		20	31.7		20
PCB-10	Di		17.5	J	20		U	8.46
PCB-11	Di		43		20	53		20
PCB-12	Di		12.1	J	20		U	10.2
PCB-13	Di		12.1	J	20	14.2	J	20
PCB-14	Di	PRC	514		20	1240		20
PCB-15	Di		97.3		20	48.2		20
PCB-16	Tri		485		20	310		20
PCB-17	Tri		989		20	526		20
PCB-18	Tri		2400		20	1360		20
PCB-19	Tri		251		20	153		20
PCB-20	Tri		938	C	20	470	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		502		20	235		20
PCB-23	Tri			U	6.73		U	7.52
PCB-24	Tri		120		20	59.5		20
PCB-25	Tri		222		20	138		20
PCB-26	Tri		393		20	240		20
PCB-27	Tri		90.9		20	55		20
PCB-28	Tri		1570		20	778		20
PCB-29	Tri		16.2	J	20		U	7.28
PCB-30	Tri			U	8.04		U	9.09
PCB-31	Tri		1390		20	803		20
PCB-32	Tri		760		20	382		20
PCB-33	Tri			C020			C020	
PCB-34	Tri		22		20	14.1	J	20
PCB-35	Tri		16.1	J	20		U	7.79
PCB-36	Tri	PRC	683		20	1390		20
PCB-37	Tri		244		20	111		20
PCB-38	Tri		19.4	J	20		U	7.3
PCB-39	Tri			U	7.34		U	8.2
PCB-40	Tetra		352		20	232		20
PCB-41	Tetra		1830	C	20	1130	C	20
PCB-42	Tetra		785	C	20	489	C	20
PCB-43	Tetra		2240	C	20	1540	C	20
PCB-44	Tetra		2300		20	1430		20
PCB-45	Tetra		430		20	266		20
PCB-46	Tetra		176		20	119		20
PCB-47	Tetra		782		20	491		20
PCB-48	Tetra		471	C	20	316	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		16.2	J	20	16.2	J	20
PCB-51	Tetra		164		20	108		20
PCB-52	Tetra		3200	C	20	2240	C	20
PCB-53	Tetra		528		20	365		20
PCB-54	Tetra		14.3	J	20		U	6.14
PCB-55	Tetra		63.5		20	88.2		20
PCB-56	Tetra		807	C	20	481	C	20
PCB-57	Tetra		15.5	J	20	13.9	J	20
PCB-58	Tetra			U	6.86		U	6.6
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		1830	C	20	1160	C	20
PCB-62	Tetra			U	7.33		U	7.05
PCB-63	Tetra		72.9		20	51.8		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	6.46		U	6.21
PCB-66	Tetra		1320	C	20	800	C	20
PCB-67	Tetra		69.2		20	46.7		20
PCB-68	Tetra		33.4		20	36.5		20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		33.3		20	45.4		20
PCB-74	Tetra		801		20	486		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		85.2		20	45.3		20
PCB-78	Tetra	PRC	2170		20	4250		20
PCB-79	Tetra		21.9		20	19.3	J	20
PCB-80	Tetra		37.2		20	43.5		20
PCB-81	Tetra		46.4		20	42.9		20
PCB-82	Penta		208		20	127		20
PCB-83	Penta		103	C	20	85.9	C	20
PCB-84	Penta		1100	C	20	847	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO			LDW-Y3-SU-ENR+AC-CC-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		11.6	J	20	11.7	J	20
PCB-2	Mono			U	3.42		U	3.42
PCB-3	Mono			U	3.85		U	3.78
PCB-4	Di		83.7		20	141		20
PCB-5	Di			U	8.05		U	5.59
PCB-6	Di		58.4		20	94		20
PCB-7	Di			U	7.69	18.9	J	20
PCB-8	Di		149		20	251		20
PCB-9	Di			U	7.69	12.9	J	20
PCB-10	Di			U	7.11		U	4.94
PCB-11	Di		42.5		20	38.3		20
PCB-12	Di			U	8.59		U	5.96
PCB-13	Di			U	8.96		U	6.22
PCB-14	Di	PRC	981		20	833		20
PCB-15	Di		32.4		20	55.8		20
PCB-16	Tri		280		20	412		20
PCB-17	Tri		380		20	629		20
PCB-18	Tri		930		20	1580		20
PCB-19	Tri		91.3		20	162		20
PCB-20	Tri		358	C	20	585	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		186		20	322		20
PCB-23	Tri			U	7.45		U	5.92
PCB-24	Tri		50.8		20	77.3		20
PCB-25	Tri		94.2		20	148		20
PCB-26	Tri		163		20	273		20
PCB-27	Tri		31.5		20	56.2		20
PCB-28	Tri		646		20	998		20
PCB-29	Tri			U	7.21	10.5	J	20
PCB-30	Tri			U	7.85		U	8.23
PCB-31	Tri		557		20	915		20
PCB-32	Tri		189		20	408		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	8.28	15	J	20
PCB-35	Tri			U	7.72		U	6.13
PCB-36	Tri	PRC	1250		20	1130		20
PCB-37	Tri		92.5		20	144		20
PCB-38	Tri			U	7.23		U	5.75
PCB-39	Tri			U	8.12		U	6.45
PCB-40	Tetra		157		20	250		20
PCB-41	Tetra		788	C	20	1230	C	20
PCB-42	Tetra		351	C	20	531	C	20
PCB-43	Tetra		1030	C	20	1550	C	20
PCB-44	Tetra		973		20	1500		20
PCB-45	Tetra		182		20	297		20
PCB-46	Tetra		81.6		20	122		20
PCB-47	Tetra		363		20	517		20
PCB-48	Tetra		215	C	20	351	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		15.6	J	20	17.6	J	20
PCB-51	Tetra		76.1		20	121		20
PCB-52	Tetra		1490	C	20	2190	C	20
PCB-53	Tetra		216		20	355		20
PCB-54	Tetra			U	5.48	11.2	J	20
PCB-55	Tetra		77.3		20	79.2		20
PCB-56	Tetra		376	C	20	534	C	20
PCB-57	Tetra			U	5.6	11.3	J	20
PCB-58	Tetra			U	5.88		U	9.12
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		842	C	20	1230	C	20
PCB-62	Tetra			U	6.28		U	9.74
PCB-63	Tetra		33.8		20	51.4		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.54		U	8.59
PCB-66	Tetra		597	C	20	896	C	20
PCB-67	Tetra		34.7		20	51.8		20
PCB-68	Tetra		26.1		20	29.6		20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		29.5		20	34.7		20
PCB-74	Tetra		357		20	530		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		40.2		20	56.1		20
PCB-78	Tetra	PRC	3870		20	3680		20
PCB-79	Tetra		13.8	J	20	18	J	20
PCB-80	Tetra		21		20	21.1		20
PCB-81	Tetra		33.8		20	33		20
PCB-82	Penta		104		20	153		20
PCB-83	Penta		55.8	C	20	78.1	C	20
PCB-84	Penta		599	C	20	831	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CA-S010			LDW-Y3-SU-ENR-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		11	J	20	17.2	J	20
PCB-2	Mono			U	3.82		U	3.24
PCB-3	Mono			U	4.07		U	3.49
PCB-4	Di		243		20	233		20
PCB-5	Di			U	9.08		U	7.37
PCB-6	Di		157		20	143		20
PCB-7	Di		16.9	J	20	17.6	J	20
PCB-8	Di		418		20	400		20
PCB-9	Di		30.5		20	32.3		20
PCB-10	Di		16	J	20	15.6	J	20
PCB-11	Di		43.7		20	43.1		20
PCB-12	Di		14.5	J	20		U	7.71
PCB-13	Di		12.6	J	20	10.3	J	20
PCB-14	Di	PRC	591		20	647		20
PCB-15	Di		75.6		20	79.9		20
PCB-16	Tri		455		20	381		20
PCB-17	Tri		766		20	812		20
PCB-18	Tri		1700		20	1780		20
PCB-19	Tri		190		20	180		20
PCB-20	Tri		776	C	20	880	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		417		20	437		20
PCB-23	Tri			U	8.28		U	8.08
PCB-24	Tri		87.1		20	82.1		20
PCB-25	Tri		224		20	247		20
PCB-26	Tri		434		20	434		20
PCB-27	Tri		64.6		20	67.9		20
PCB-28	Tri		1160		20	1500		20
PCB-29	Tri		13.2	J	20	15.5	J	20
PCB-30	Tri			U	7.9		U	6.38
PCB-31	Tri		1360		20	1480		20
PCB-32	Tri		498		20	594		20
PCB-33	Tri			C020			C020	
PCB-34	Tri		18.7	J	20	18.1	J	20
PCB-35	Tri		13.9	J	20	16.1	J	20
PCB-36	Tri	PRC	681		20	738		20
PCB-37	Tri		192		20	169		20
PCB-38	Tri		19.1	J	20	20.4		20
PCB-39	Tri			U	7.78		U	7.59
PCB-40	Tetra		296		20	250		20
PCB-41	Tetra		1460	C	20	1190	C	20
PCB-42	Tetra		640	C	20	516	C	20
PCB-43	Tetra		2140	C	20	1650	C	20
PCB-44	Tetra		1770		20	1500		20
PCB-45	Tetra		355		20	330		20
PCB-46	Tetra		146		20	133		20
PCB-47	Tetra		676		20	524		20
PCB-48	Tetra		402	C	20	336	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		17.4	J	20	18.2	J	20
PCB-51	Tetra		134		20	113		20
PCB-52	Tetra		2800	C	20	2210	C	20
PCB-53	Tetra		401		20	361		20
PCB-54	Tetra		11.1	J	20	11.5	J	20
PCB-55	Tetra		66.2		20	52.9		20
PCB-56	Tetra		730	C	20	598	C	20
PCB-57	Tetra		15.5	J	20	10.6	J	20
PCB-58	Tetra		9.24	J	20	10.6	J	20
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		1600	C	20	1230	C	20
PCB-62	Tetra			U	5.78		U	7.89
PCB-63	Tetra		58.7		20	50.2		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.72		U	7.81
PCB-66	Tetra		1220	C	20	898	C	20
PCB-67	Tetra		50.5		20	41.5		20
PCB-68	Tetra		28.5		20	21.6		20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		44		20	32.3		20
PCB-74	Tetra		634		20	512		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		74.7		20	51.9		20
PCB-78	Tetra	PRC	1810		20	2110		20
PCB-79	Tetra		36.7		20	22.6		20
PCB-80	Tetra		21.7		20	24.5		20
PCB-81	Tetra		51.3		20	32.9		20
PCB-82	Penta		247		20	170		20
PCB-83	Penta		134	C	20	87	C	20
PCB-84	Penta		1350	C	20	891	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CC-S010			LDW-Y3-SU-ENR-CA-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		15.2	J	20	13.4	J	20
PCB-2	Mono			U	3.98		U	4.27
PCB-3	Mono			U	4.28		U	4.65
PCB-4	Di		414		20	164		20
PCB-5	Di			U	8.64		U	10.9
PCB-6	Di		215		20	94.6		20
PCB-7	Di		26.8		20	13.1	J	20
PCB-8	Di		579		20	285		20
PCB-9	Di		37.5		20	19.5	J	20
PCB-10	Di		22.9		20	10.6	J	20
PCB-11	Di		62.2		20	45.3		20
PCB-12	Di		11.6	J	20		U	11.5
PCB-13	Di		20.8		20		U	10.7
PCB-14	Di	PRC	664		20	1030		20
PCB-15	Di		116		20	74.7		20
PCB-16	Tri		546		20	335		20
PCB-17	Tri		1040		20	557		20
PCB-18	Tri		2420		20	1260		20
PCB-19	Tri		265		20	425		20
PCB-20	Tri		958	C	20	599	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		539		20	296		20
PCB-23	Tri			U	7.87		U	8.34
PCB-24	Tri		108		20	58.8		20
PCB-25	Tri		246		20	157		20
PCB-26	Tri		399		20	273		20
PCB-27	Tri		88.3		20	47.7		20
PCB-28	Tri		1530		20	1030		20
PCB-29	Tri		17.1	J	20		U	8
PCB-30	Tri			U	9.63		U	8.43
PCB-31	Tri		1670		20	1000		20
PCB-32	Tri		746		20	402		20
PCB-33	Tri			C020			C020	
PCB-34	Tri		20.5		20		U	8.27
PCB-35	Tri			U	7.41		U	7.85
PCB-36	Tri	PRC	733		20	1110		20
PCB-37	Tri		224		20	135		20
PCB-38	Tri		24.2		20		U	7.46
PCB-39	Tri			U	7.4		U	7.84
PCB-40	Tetra		344		20	213		20
PCB-41	Tetra		1480	C	20	948	C	20
PCB-42	Tetra		673	C	20	423	C	20
PCB-43	Tetra		1910	C	20	1300	C	20
PCB-44	Tetra		1820		20	1130		20
PCB-45	Tetra		427		20	267		20
PCB-46	Tetra		159		20	111		20
PCB-47	Tetra		642		20	395		20
PCB-48	Tetra		412	C	20	280	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		20.3		20	16.5	J	20
PCB-51	Tetra		142		20	94.9		20
PCB-52	Tetra		2600	C	20	1730	C	20
PCB-53	Tetra		442		20	283		20
PCB-54	Tetra		13.4	J	20		U	7.86
PCB-55	Tetra		64.5		20	61.7		20
PCB-56	Tetra		741	C	20	491	C	20
PCB-57	Tetra		16.8	J	20	12	J	20
PCB-58	Tetra		10.2	J	20		U	7.46
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		1610	C	20	926	C	20
PCB-62	Tetra			U	5.86		U	7.57
PCB-63	Tetra		64		20	39.1		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.81		U	7.5
PCB-66	Tetra		1160	C	20	706	C	20
PCB-67	Tetra		54.6		20	35.2		20
PCB-68	Tetra		28.6		20	24.5		20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		57.1		20	37.5		20
PCB-74	Tetra		653		20	404		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		57.4		20	37.8		20
PCB-78	Tetra	PRC	2050		20	3530		20
PCB-79	Tetra		26.4		20	20.5		20
PCB-80	Tetra		12.6	J	20	19.9	J	20
PCB-81	Tetra		37.5		20	31.8		20
PCB-82	Penta		233		20	147		20
PCB-83	Penta		106	C	20	67.2	C	20
PCB-84	Penta		1110	C	20	776	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO			LDW-Y3-SU-ENR-CC-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono		34.3		20	6.93	J	20
PCB-2	Mono			U	3.83		U	3.61
PCB-3	Mono		7.29	J	20		U	3.89
PCB-4	Di		1180		20	101		20
PCB-5	Di			U	8.21		U	6.49
PCB-6	Di		713		20	70.1		20
PCB-7	Di		70.3		20	11.3	J	20
PCB-8	Di		1470		20	222		20
PCB-9	Di		130		20	15.4	J	20
PCB-10	Di		65		20		U	6.16
PCB-11	Di		85		20	52.3		20
PCB-12	Di		37.5		20		U	6.79
PCB-13	Di		32.7		20		U	6.35
PCB-14	Di	PRC	1380		20	988		20
PCB-15	Di		185		20	57.9		20
PCB-16	Tri		1380		20	264		20
PCB-17	Tri		2480		20	437		20
PCB-18	Tri		6020		20	1020		20
PCB-19	Tri		728		20	122		20
PCB-20	Tri		2050	C	20	581	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		1030		20	285		20
PCB-23	Tri			U	6.59		U	9.17
PCB-24	Tri		223		20	54.7		20
PCB-25	Tri		591		20	130		20
PCB-26	Tri		1190		20	234		20
PCB-27	Tri		223		20	37.3		20
PCB-28	Tri		3290		20	803		20
PCB-29	Tri		35.8		20		U	8.8
PCB-30	Tri			U	7.03		U	6.75
PCB-31	Tri		3510		20	937		20
PCB-32	Tri		1740		20	358		20
PCB-33	Tri			C020			C020	
PCB-34	Tri		65.6		20		U	9.1
PCB-35	Tri		24.2		20	10.7	J	20
PCB-36	Tri	PRC	1470		20	1330		20
PCB-37	Tri		384		20	122		20
PCB-38	Tri		38.2		20	13.2	J	20
PCB-39	Tri			U	6.19		U	8.62
PCB-40	Tetra		624		20	179		20
PCB-41	Tetra		2750	C	20	885	C	20
PCB-42	Tetra		1330	C	20	385	C	20
PCB-43	Tetra		3730	C	20	1090	C	20
PCB-44	Tetra		3520		20	1000		20
PCB-45	Tetra		904		20	242		20
PCB-46	Tetra		358		20	97.6		20
PCB-47	Tetra		1170		20	363		20
PCB-48	Tetra		778	C	20	244	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		38.7		20	17.5	J	20
PCB-51	Tetra		269		20	93.5		20
PCB-52	Tetra		120	C	20	1520	C	20
PCB-53	Tetra		916		20	263		20
PCB-54	Tetra		23.7		20		U	6.8
PCB-55	Tetra		96.1		20	73.1		20
PCB-56	Tetra		1120	C	20	457	C	20
PCB-57	Tetra		24.6		20		U	6.41
PCB-58	Tetra		17.9	J	20		U	6.46
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		2370	C	20	899	C	20
PCB-62	Tetra			U	5.43		U	6.56
PCB-63	Tetra		115		20	37.9		20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.38		U	6.5
PCB-66	Tetra		1920	C	20	672	C	20
PCB-67	Tetra		81.2		20	32		20
PCB-68	Tetra		60.5		20	18.9	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		108		20	40.8		20
PCB-74	Tetra		1080		20	384		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra		99.6		20	47.9		20
PCB-78	Tetra	PRC	4050		20	3410		20
PCB-79	Tetra		37		20	15.9	J	20
PCB-80	Tetra		44.1		20	21.5		20
PCB-81	Tetra		52.8		20	34.1		20
PCB-82	Penta		293		20	143		20
PCB-83	Penta		158	C	20	63	C	20
PCB-84	Penta		1620	C	20	747	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-LCB			LDW-Y3-LBS-WAT-S010-SPME		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	3.19		U	5
PCB-2	Mono			U	3.35		U	5.37
PCB-3	Mono			U	3.58		U	5.92
PCB-4	Di			U	13		U	12.5
PCB-5	Di			U	8.2		U	9.38
PCB-6	Di			U	8.26		U	9.81
PCB-7	Di			U	7.93		U	9.91
PCB-8	Di			U	8.38		U	9.72
PCB-9	Di			U	8.32		U	9.49
PCB-10	Di			U	7.78		U	9.63
PCB-11	Di		54.5		20	50.6		20
PCB-12	Di			U	8.58		U	9.54
PCB-13	Di			U	8.02		U	9.56
PCB-14	Di	PRC	643		20	913		20
PCB-15	Di			U	7.93		U	10.7
PCB-16	Tri			U	7.07		U	7.89
PCB-17	Tri			U	7.9		U	8.35
PCB-18	Tri			U	8.65		U	8.81
PCB-19	Tri			U	8.97		U	9.39
PCB-20	Tri			UC	20		UC	20
PCB-21	Tri			C020			C020	
PCB-22	Tri			U	5.07		U	5.4
PCB-23	Tri			U	5.37		U	5.37
PCB-24	Tri			U	5.94		U	6.46
PCB-25	Tri			U	5.4		U	5.86
PCB-26	Tri			U	5.27		U	5.5
PCB-27	Tri			U	6.08		U	6.34
PCB-28	Tri			U	4.58		U	5.1
PCB-29	Tri			U	5.15		U	5.42
PCB-30	Tri			U	5.87		U	6.16
PCB-31	Tri			U	5.22		U	5.21
PCB-32	Tri			U	7.13		U	7.12
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	5.33		U	6.1
PCB-35	Tri			U	5.05		U	5.63
PCB-36	Tri	PRC	790		20	971		20
PCB-37	Tri			U	5.11		U	5.54
PCB-38	Tri			U	4.8		U	5.17
PCB-39	Tri			U	5.05		U	5.42
PCB-40	Tetra			U	6.97		U	11.7
PCB-41	Tetra			UC	20		UC	20
PCB-42	Tetra			UC	20		UC	20
PCB-43	Tetra			UC	20		UC	20
PCB-44	Tetra			U	6.16		U	10.5
PCB-45	Tetra			U	6.13		U	9.97
PCB-46	Tetra			U	6.26		U	10.5
PCB-47	Tetra		15.1	J	20		U	8.83
PCB-48	Tetra			UC	20		UC	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	5.36		U	8.68
PCB-51	Tetra			U	5.15		U	8.67
PCB-52	Tetra		19.3	C,J	20	13.8	C,J	20
PCB-53	Tetra			U	5.46		U	8.9
PCB-54	Tetra			U	4.27		U	7.2
PCB-55	Tetra		33.2		20	33.4		20
PCB-56	Tetra			UC	20		UC	20
PCB-57	Tetra			U	4.02		U	6.84
PCB-58	Tetra			U	4.05		U	7.07
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra			UC	20		UC	20
PCB-62	Tetra			U	4.11		U	7.11
PCB-63	Tetra			U	3.93		U	6.78
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	4.07		U	7.11
PCB-66	Tetra			UC	20		UC	20
PCB-67	Tetra			U	3.99		U	6.63
PCB-68	Tetra			U	3.78		U	6.49
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		13.2	J	20	17.2	J	20
PCB-74	Tetra			U	4.02		U	6.67
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra			U	9.1		U	14.6
PCB-78	Tetra	PRC	2450		20	2960		20
PCB-79	Tetra			U	7.88		U	13.8
PCB-80	Tetra			U	3.56		U	5.89
PCB-81	Tetra			U	7.27		U	13
PCB-82	Penta			U	9.1		U	11.5
PCB-83	Penta			UC	20		UC	20
PCB-84	Penta			UC	20		UC	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CA-S010			LDW-Y3-IN-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	3.13		U	4.05
PCB-2	Mono			U	3.42		U	4.18
PCB-3	Mono			U	3.68		U	4.27
PCB-4	Di		21.5		20	30.8		20
PCB-5	Di			U	7.86		U	7.98
PCB-6	Di		15	J	20	19.3	J	20
PCB-7	Di			U	7.27		U	7.38
PCB-8	Di		32.8		20	38.3		20
PCB-9	Di			U	7.53		U	7.64
PCB-10	Di			U	7.43		U	7.54
PCB-11	Di		16.7	J	20	23.5		20
PCB-12	Di			U	7.75		U	7.87
PCB-13	Di			U	7.89		U	8.01
PCB-14	Di	PRC	253		20	257		20
PCB-15	Di		12.4	J	20	17.4	J	20
PCB-16	Tri		35.4		20	43.4		20
PCB-17	Tri		65.8		20	64.7		20
PCB-18	Tri		159		20	158		20
PCB-19	Tri		18.3	J	20	21.9		20
PCB-20	Tri		67	C	20	80.8	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		35.1		20	42.3		20
PCB-23	Tri			U	9		U	7.06
PCB-24	Tri		8.43	J	20	11.7	J	20
PCB-25	Tri		38.2		20	38.1		20
PCB-26	Tri		86.3		20	80.5		20
PCB-27	Tri		8.21	J	20	11.2	J	20
PCB-28	Tri		117		20	146		20
PCB-29	Tri			U	9.28		U	7.28
PCB-30	Tri			U	3.76		U	5.62
PCB-31	Tri		114		20	133		20
PCB-32	Tri		35.4		20	32.5		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	9.48		U	7.43
PCB-35	Tri			U	9.26		U	7.26
PCB-36	Tri	PRC	641		20	641		20
PCB-37	Tri		22.7		20	28.7		20
PCB-38	Tri			U	9.36		U	7.34
PCB-39	Tri			U	8.97		U	7.03
PCB-40	Tetra		42		20	47.1		20
PCB-41	Tetra		192	C	20	202	C	20
PCB-42	Tetra		96.8	C	20	93.3	C	20
PCB-43	Tetra		372	C	20	346	C	20
PCB-44	Tetra		304		20	314		20
PCB-45	Tetra		46.3		20	44.1		20
PCB-46	Tetra		21.6		20	20.2		20
PCB-47	Tetra		107		20	120		20
PCB-48	Tetra		46.8	C	20	54.5	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra		9.67	J	20		U	6.69
PCB-51	Tetra		23		20	22.7		20
PCB-52	Tetra		626	C	20	601	C	20
PCB-53	Tetra		64		20	62.3		20
PCB-54	Tetra			U	5.58		U	5.22
PCB-55	Tetra		39.7		20	46.9		20
PCB-56	Tetra		81.2	C	20	101	C	20
PCB-57	Tetra			U	5.39		U	5.04
PCB-58	Tetra			U	5.48		U	5.13
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		217	C	20	253	C	20
PCB-62	Tetra			U	5.94		U	5.56
PCB-63	Tetra		9.33	J	20	14.7	J	20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.72		U	5.35
PCB-66	Tetra		169	C	20	197	C	20
PCB-67	Tetra		10.3	J	20	16	J	20
PCB-68	Tetra		12.8	J	20	13.1	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		19.4	J	20	18.8	J	20
PCB-74	Tetra		83		20	104		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra			U	9.6	13.8	J	20
PCB-78	Tetra	PRC	2470		20	2570		20
PCB-79	Tetra			U	9.12		U	7.25
PCB-80	Tetra			U	4.51		U	4.22
PCB-81	Tetra			U	9.06	13.9	J	20
PCB-82	Penta		51.2		20	58.8		20
PCB-83	Penta		35.4	C	20	34.1	C	20
PCB-84	Penta		371	C	20	332	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010			LDW-Y3-IN-ENR-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	3.04		U	3.58
PCB-2	Mono			U	3.3		U	3.8
PCB-3	Mono			U	3.54		U	3.98
PCB-4	Di		16.9	J	20	29.9		20
PCB-5	Di			U	7.13		U	7.86
PCB-6	Di		10.6	J	20	18	J	20
PCB-7	Di			U	6.6		U	7.27
PCB-8	Di		26		20	51.5		20
PCB-9	Di			U	6.83		U	7.54
PCB-10	Di			U	6.74		U	7.43
PCB-11	Di		16.9	J	20	28.1		20
PCB-12	Di			U	7.03		U	7.76
PCB-13	Di			U	7.16		U	7.89
PCB-14	Di	PRC	258		20	426		20
PCB-15	Di		11	J	20	21.6		20
PCB-16	Tri		21.8		20	38.2		20
PCB-17	Tri		42.7		20	66.9		20
PCB-18	Tri		105		20	173		20
PCB-19	Tri		14	J	20	22.8		20
PCB-20	Tri		56.9	C	20	81.5	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		31.6		20	51.7		20
PCB-23	Tri			U	5.07		U	8.19
PCB-24	Tri			U	5.77	11.9	J	20
PCB-25	Tri		22.3		20	41		20
PCB-26	Tri		49.6		20	92.9		20
PCB-27	Tri			U	5.58	12.5	J	20
PCB-28	Tri		95.7		20	149		20
PCB-29	Tri			U	5.23		U	8.44
PCB-30	Tri			U	5.56		U	6.15
PCB-31	Tri		94.2		20	142		20
PCB-32	Tri		29.2		20	38.7		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	5.34		U	8.63
PCB-35	Tri			U	5.21		U	8.42
PCB-36	Tri	PRC	655		20	733		20
PCB-37	Tri		20.1		20	32.8		20
PCB-38	Tri			U	5.27		U	8.52
PCB-39	Tri			U	5.05		U	8.16
PCB-40	Tetra		31.5		20	43.9		20
PCB-41	Tetra		138	C	20	215	C	20
PCB-42	Tetra		67.8	C	20	103	C	20
PCB-43	Tetra		248	C	20	392	C	20
PCB-44	Tetra		195		20	312		20
PCB-45	Tetra		32.3		20	49.2		20
PCB-46	Tetra		15.5	J	20	22.4		20
PCB-47	Tetra		92.9		20	137		20
PCB-48	Tetra		32.5	C	20	47.9	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	6.5		U	6.79
PCB-51	Tetra		14.7	J	20	19.3	J	20
PCB-52	Tetra		381	C	20	680	C	20
PCB-53	Tetra		49.2		20	75.5		20
PCB-54	Tetra			U	5.08		U	5.3
PCB-55	Tetra		40.2		20	45.5		20
PCB-56	Tetra		77.8	C	20	111	C	20
PCB-57	Tetra			U	4.9		U	5.11
PCB-58	Tetra			U	4.98		U	5.2
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		165	C	20	257	C	20
PCB-62	Tetra			U	5.4		U	5.64
PCB-63	Tetra		11.2	J	20	12.6	J	20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.2		U	5.43
PCB-66	Tetra		133	C	20	212	C	20
PCB-67	Tetra		8.93	J	20	15.6	J	20
PCB-68	Tetra		12.8	J	20	16.9	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		14.5	J	20	21.3		20
PCB-74	Tetra		70.5		20	102		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra			U	6.15	15.7	J	20
PCB-78	Tetra	PRC	2700		20	2890		20
PCB-79	Tetra			U	5.71		U	6.91
PCB-80	Tetra		8.86	J	20		U	4.28
PCB-81	Tetra			U	5.53	11.3	J	20
PCB-82	Penta		42.1		20	55.2		20
PCB-83	Penta		27.3	C	20	35.5	C	20
PCB-84	Penta		237	C	20	363	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CC-S010			LDW-Y3-IN-ENR-CD-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	7.03		U	5.04
PCB-2	Mono			U	7.41		U	5.3
PCB-3	Mono			U	7.71		U	5.52
PCB-4	Di		42.6		20	42.9		20
PCB-5	Di			U	11.9		U	9.47
PCB-6	Di		27		20	21.4		20
PCB-7	Di			U	11		U	8.76
PCB-8	Di		52.8		20	47.1		20
PCB-9	Di			U	11.4		U	9.07
PCB-10	Di			U	11.3		U	8.95
PCB-11	Di		31.4		20	36.3		20
PCB-12	Di			U	11.8		U	9.34
PCB-13	Di			U	12		U	9.5
PCB-14	Di	PRC	353		20	702		20
PCB-15	Di		27.7		20	23.4		20
PCB-16	Tri		41.9		20	38.9		20
PCB-17	Tri		86.8		20	80.6		20
PCB-18	Tri		210		20	200		20
PCB-19	Tri		33.3		20	26.8		20
PCB-20	Tri		107	C	20	95	C	20
PCB-21	Tri			C020			C020	
PCB-22	Tri		63.7		20	58.5		20
PCB-23	Tri			U	8.81		U	7.22
PCB-24	Tri		20		20	18.2	J	20
PCB-25	Tri		57.6		20	56.4		20
PCB-26	Tri		120		20	109		20
PCB-27	Tri		15.2	J	20	16.4	J	20
PCB-28	Tri		187		20	193		20
PCB-29	Tri			U	9.08		U	7.44
PCB-30	Tri			U	10.4		U	8.64
PCB-31	Tri		174		20	176		20
PCB-32	Tri		61.1		20	51		20
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	9.27		U	7.6
PCB-35	Tri			U	9.06		U	7.42
PCB-36	Tri	PRC	647		20	1100		20
PCB-37	Tri		57		20	42.8		20
PCB-38	Tri			U	9.16		U	7.51
PCB-39	Tri			U	8.77		U	7.19
PCB-40	Tetra		57.4		20	47		20
PCB-41	Tetra		252	C	20	242	C	20
PCB-42	Tetra		129	C	20	114	C	20
PCB-43	Tetra		516	C	20	427	C	20
PCB-44	Tetra		419		20	343		20
PCB-45	Tetra		72		20	59.3		20
PCB-46	Tetra		31.4		20	28.1		20
PCB-47	Tetra		176		20	158		20
PCB-48	Tetra		60.3	C	20	57	C	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	9	16.3	J	20
PCB-51	Tetra		27.1		20	26.5		20
PCB-52	Tetra		827	C	20	726	C	20
PCB-53	Tetra		94.1		20	82.2		20
PCB-54	Tetra			U	7.03		U	6.65
PCB-55	Tetra		57.6		20	55.2		20
PCB-56	Tetra		128	C	20	124	C	20
PCB-57	Tetra			U	6.78	9.09	J	20
PCB-58	Tetra			U	6.9		U	6.53
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		316	C	20	294	C	20
PCB-62	Tetra			U	7.48		U	7.08
PCB-63	Tetra		17.8	J	20	14.2	J	20
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	7.2		U	6.82
PCB-66	Tetra		253	C	20	233	C	20
PCB-67	Tetra		21.1		20	16.5	J	20
PCB-68	Tetra		19.1	J	20	17.1	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		25.5		20	23		20
PCB-74	Tetra		122		20	122		20
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra			U	9.81	14.2	J	20
PCB-78	Tetra	PRC	2490		20	3550		20
PCB-79	Tetra			U	9.57		U	6.69
PCB-80	Tetra		11.6	J	20	10.9	J	20
PCB-81	Tetra			U	9.76	11.1	J	20
PCB-82	Penta		68.6		20	50.9		20
PCB-83	Penta		42.8	C	20	37.8	C	20
PCB-84	Penta		403	C	20	369	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-EXTRA-S010-TB			LDW-Y3-SC-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	3.51		U	4.07
PCB-2	Mono			U	3.75		U	4.19
PCB-3	Mono			U	3.95		U	4.74
PCB-4	Di			U	8.59		U	13.7
PCB-5	Di			U	6.15		U	10
PCB-6	Di			U	5.34		U	10
PCB-7	Di			U	5.69		U	9.56
PCB-8	Di			U	5.96		U	9.86
PCB-9	Di			U	5.89		U	9.56
PCB-10	Di			U	5.81		U	8.84
PCB-11	Di		119		20	83.4		20
PCB-12	Di			U	6.07		U	10.7
PCB-13	Di			U	6.17		U	11.1
PCB-14	Di	PRC	1740		20	1490		20
PCB-15	Di			U	5.92		U	10.9
PCB-16	Tri			U	4.42		U	6.75
PCB-17	Tri			U	5.02		U	7.56
PCB-18	Tri			U	5.56		U	8.71
PCB-19	Tri			U	5.61		U	8.44
PCB-20	Tri			UC	20		UC	20
PCB-21	Tri			C020			C020	
PCB-22	Tri			U	5.83		U	6.64
PCB-23	Tri			U	6.21		U	6.71
PCB-24	Tri			U	3.89		U	5.86
PCB-25	Tri			U	6.62		U	6.94
PCB-26	Tri			U	6.55		U	6.56
PCB-27	Tri			U	3.77		U	6.05
PCB-28	Tri			U	5.31		U	6.15
PCB-29	Tri			U	6.4		U	6.5
PCB-30	Tri			U	3.75		U	5.37
PCB-31	Tri			U	5.31		U	6.24
PCB-32	Tri			U	4.28		U	6.72
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	6.54		U	7.46
PCB-35	Tri			U	6.39		U	6.95
PCB-36	Tri	PRC	1340		20	1050		20
PCB-37	Tri			U	6.16		U	7.28
PCB-38	Tri			U	6.46		U	6.52
PCB-39	Tri			U	6.19		U	7.32
PCB-40	Tetra			U	7.27		U	11.3
PCB-41	Tetra			UC	20		UC	20
PCB-42	Tetra			UC	20		UC	20
PCB-43	Tetra			UC	20		UC	20
PCB-44	Tetra			U	6.8		U	10.9
PCB-45	Tetra			U	6.44		U	9.4
PCB-46	Tetra			U	6.67		U	10.1
PCB-47	Tetra		16.6	J	20		U	9.27
PCB-48	Tetra			UC	20		UC	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	5.55		U	7.96
PCB-51	Tetra			U	5.38		U	8.88
PCB-52	Tetra		17.4	C,J	20	18	C,J	20
PCB-53	Tetra			U	5.69		U	9
PCB-54	Tetra			U	4.33		U	6.77
PCB-55	Tetra		38		20	35.9		20
PCB-56	Tetra			UC	20		UC	20
PCB-57	Tetra			U	4.18		U	6.93
PCB-58	Tetra			U	4.26		U	7.27
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra		11	C,J	20		UC	20
PCB-62	Tetra			U	4.61		U	7.77
PCB-63	Tetra			U	4.22		U	6.81
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	4.44		U	6.85
PCB-66	Tetra			UC	20		UC	20
PCB-67	Tetra			U	4.15		U	7.3
PCB-68	Tetra		12.5	J	20	11.8	J	20
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		16.2	J	20	20.4		20
PCB-74	Tetra			U	4.15		U	7.46
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra			U	5.07		U	9.32
PCB-78	Tetra	PRC	3870		20	3140		20
PCB-79	Tetra			U	4.66		U	7.7
PCB-80	Tetra		10.9	J	20		U	5.89
PCB-81	Tetra			U	4.48		U	7.34
PCB-82	Penta			U	8.35		U	10.2
PCB-83	Penta			UC	20		UC	20
PCB-84	Penta		54.4	C	20	44.7	C	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-TB			LDW-Y3-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-1	Mono			U	2.5		U	8.66
PCB-2	Mono			U	2.57		U	9.17
PCB-3	Mono			U	2.72		U	9.73
PCB-4	Di			U	8.96		U	17.1
PCB-5	Di			U	5.92		U	9.58
PCB-6	Di			U	6.19		U	9.83
PCB-7	Di			U	6.25		U	9.71
PCB-8	Di			U	6.14		U	9.9
PCB-9	Di			U	5.99		U	9.85
PCB-10	Di			U	6.08		U	9.12
PCB-11	Di		78.6		20	89.8		20
PCB-12	Di			U	6.03		U	10.4
PCB-13	Di			U	6.04		U	10.4
PCB-14	Di	PRC	2170		20	2710		20
PCB-15	Di			U	6.14		U	9.73
PCB-16	Tri			U	7.28		U	10.3
PCB-17	Tri			U	7.7		U	11.4
PCB-18	Tri			U	8.12		U	12.3
PCB-19	Tri			U	8.66		U	12.2
PCB-20	Tri			UC	20		UC	20
PCB-21	Tri			C020			C020	
PCB-22	Tri			U	5.79		U	8.22
PCB-23	Tri			U	5.76		U	8.01
PCB-24	Tri			U	5.95		U	8.99
PCB-25	Tri			U	6.28		U	9.3
PCB-26	Tri			U	5.9		U	9.16
PCB-27	Tri			U	5.85		U	8.85
PCB-28	Tri			U	5.47		U	7.83
PCB-29	Tri			U	5.81		U	8.66
PCB-30	Tri			U	5.68		U	8.46
PCB-31	Tri			U	5.59		U	8.65
PCB-32	Tri			U	6.56		U	9.61
PCB-33	Tri			C020			C020	
PCB-34	Tri			U	6.54		U	9.62
PCB-35	Tri			U	6.04		U	9.81
PCB-36	Tri	PRC	1470		20	1760		20
PCB-37	Tri			U	5.94		U	9.52
PCB-38	Tri			U	5.55		U	9.14
PCB-39	Tri			U	5.81		U	9.2
PCB-40	Tetra			U	9.58		U	15.8
PCB-41	Tetra			UC	20		UC	20
PCB-42	Tetra			UC	20		UC	20
PCB-43	Tetra			UC	20		UC	20
PCB-44	Tetra			U	8.55		U	14.5
PCB-45	Tetra			U	8.13		U	13.7
PCB-46	Tetra			U	8.53		U	14.4
PCB-47	Tetra			U	7.2		U	11.9
PCB-48	Tetra			UC	20		UC	20
PCB-49	Tetra			C043			C043	
PCB-50	Tetra			U	7.08		U	11.6
PCB-51	Tetra			U	7.07		U	11.2
PCB-52	Tetra		13.5	C,J	20		UC	20
PCB-53	Tetra			U	7.26		U	12
PCB-54	Tetra			U	5.87		U	9.04
PCB-55	Tetra		46.9		20	62.2		20
PCB-56	Tetra			UC	20		UC	20
PCB-57	Tetra			U	5.58		U	9.25
PCB-58	Tetra			U	5.77		U	8.55
PCB-59	Tetra			C042			C042	
PCB-60	Tetra			C056			C056	
PCB-61	Tetra			UC	20		UC	20
PCB-62	Tetra			U	5.8		U	9.09
PCB-63	Tetra			U	5.53		U	9.18
PCB-64	Tetra			C041			C041	
PCB-65	Tetra			U	5.8		U	10
PCB-66	Tetra			UC	20		UC	20
PCB-67	Tetra			U	5.41		U	10.1
PCB-68	Tetra			U	5.3		U	8.81
PCB-69	Tetra			C052			C052	
PCB-70	Tetra			C061			C061	
PCB-71	Tetra			C041			C041	
PCB-72	Tetra			C041			C041	
PCB-73	Tetra		18.8	J	20	21.6		20
PCB-74	Tetra			U	5.44		U	9.64
PCB-75	Tetra			C048			C048	
PCB-76	Tetra			C066			C066	
PCB-77	Tetra			U	7.46		U	9.93
PCB-78	Tetra	PRC	4040		20	4630		20
PCB-79	Tetra			U	7.23		U	8.8
PCB-80	Tetra			U	4.81		U	7.81
PCB-81	Tetra			U	6.98		U	8.64
PCB-82	Penta			U	8.92		U	14.1
PCB-83	Penta			UC	20		UC	20
PCB-84	Penta			UC	20		UC	20

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010			LDW-Y3-SC-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		111	C	20	116	C	20
PCB-86	Penta			U	12.5		U	13.7
PCB-87	Penta		250	C	20	268	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		16.1	J	20	17.1	J	20
PCB-90	Penta		931	C	20	902	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	10.6		U	8.66
PCB-94	Penta		13.5	J	20		U	9.09
PCB-95	Penta		1220		20	1110		20
PCB-96	Penta		16	J	20	14.2	J	20
PCB-97	Penta		230		20	258		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		429		20	385		20
PCB-100	Penta		48.4		20	22.2		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		40.9		20	31.8		20
PCB-104	Penta	PRC	3430		20	3270		20
PCB-105	Penta		175		20	188		20
PCB-106	Penta		524	C	20	502	C	20
PCB-107	Penta		47.6	C	20	43.8	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	8.76		U	9.62
PCB-110	Penta		729		20	756		20
PCB-111	Penta		16.8	C,J	20		UC	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	9.23		U	10.1
PCB-114	Penta		17.5	J	20	13.6	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		33.7		20	27.2		20
PCB-120	Penta			U	7.92		U	8.7
PCB-121	Penta	PRC	5090		20	4720		20
PCB-122	Penta			U	9.63		U	8.26
PCB-123	Penta		16.2	J	20	15.7	J	20
PCB-124	Penta		35.8		20	32		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	10.1		U	8.71
PCB-127	Penta			U	10.5		U	9.03
PCB-128	Hexa		86	C	20	90.1	C	20
PCB-129	Hexa		32.8		20	39.9		20
PCB-130	Hexa		43.2		20	46.3		20
PCB-131	Hexa		33.4	C	20	29.7	C	20
PCB-132	Hexa		268	C	20	257	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		61.3	C	20	55	C	20
PCB-135	Hexa		156		20	145		20
PCB-136	Hexa		195		20	195		20
PCB-137	Hexa		42.9		20	22.6		20
PCB-138	Hexa		745	C	20	699	C	20
PCB-139	Hexa		974	C	20	838	C	20
PCB-140	Hexa			U	11.9		U	10.3
PCB-141	Hexa		149		20	130		20
PCB-142	Hexa	PRC	1020		20	959		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		62.9		20	57.8		20
PCB-145	Hexa			U	8.57		U	11.2
PCB-146	Hexa		153	C	20	141	C	20
PCB-147	Hexa		64.4		20	20.5		20
PCB-148	Hexa			U	9.92		U	13
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	8.38		U	11
PCB-151	Hexa		324		20	273		20
PCB-152	Hexa			U	8.5		U	11.1
PCB-153	Hexa		931		20	750		20
PCB-154	Hexa		78.3		20	30		20
PCB-155	Hexa	PRC	5190		20	5280		20
PCB-156	Hexa		49.2		20	50.2		20
PCB-157	Hexa		16	J	20		U	8.46
PCB-158	Hexa		71.4	C	20	70.8	C	20
PCB-159	Hexa			U	8.55	14.9	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	9.32		U	8.08
PCB-167	Hexa		29		20	22.8		20
PCB-168	Hexa			U	9.61		U	8.33

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CC-S010			LDW-Y3-SC-ENR+AC-CA-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		158	C	20	84.3	C	20
PCB-86	Penta			U	19.2		U	11.4
PCB-87	Penta		359	C	20	204	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	16		U	11.3
PCB-90	Penta		1240	C	20	690	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	15.5		U	10.9
PCB-94	Penta			U	16.2		U	11.5
PCB-95	Penta		1400		20	974		20
PCB-96	Penta		22.4		20	13.5	J	20
PCB-97	Penta		341		20	201		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		467		20	288		20
PCB-100	Penta		27.9		20	25.7		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		32.3		20	28.7		20
PCB-104	Penta	PRC	2760		20	3350		20
PCB-105	Penta		246		20	144		20
PCB-106	Penta		679	C	20	399	C	20
PCB-107	Penta		61.2	C	20	34.4	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	11.6		U	7.97
PCB-110	Penta		960		20	581		20
PCB-111	Penta		20.1	C	20	15.4	C,J	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	12.4		U	8.4
PCB-114	Penta			U	10	13.8	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		38		20	21.2		20
PCB-120	Penta			U	10.7		U	7.2
PCB-121	Penta	PRC	4240		20	5460		20
PCB-122	Penta			U	10.7		U	9.25
PCB-123	Penta			U	11.2		U	10.5
PCB-124	Penta		40.4		20	29		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	11.4		U	10.1
PCB-127	Penta			U	10.6		U	10.1
PCB-128	Hexa		127	C	20	84.1	C	20
PCB-129	Hexa		56.5		20	36.5		20
PCB-130	Hexa		57.7		20	36.1		20
PCB-131	Hexa		38.8	C	20	22.6	C	20
PCB-132	Hexa		363	C	20	218	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		91.1	C	20	56.1	C	20
PCB-135	Hexa		173		20	138		20
PCB-136	Hexa		253		20	199		20
PCB-137	Hexa		43.4		20	28.3		20
PCB-138	Hexa		905	C	20	610	C	20
PCB-139	Hexa		1070	C	20	758	C	20
PCB-140	Hexa			U	15.4		U	11.4
PCB-141	Hexa		184		20	123		20
PCB-142	Hexa	PRC	866		20	1150		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		75.2		20	51.5		20
PCB-145	Hexa			U	11.4		U	11.9
PCB-146	Hexa		169	C	20	116	C	20
PCB-147	Hexa		17.8	J	20	28.1		20
PCB-148	Hexa			U	16		U	13.8
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	11		U	11.6
PCB-151	Hexa		353		20	269		20
PCB-152	Hexa			U	11.5		U	11.8
PCB-153	Hexa		980		20	700		20
PCB-154	Hexa		44.8		20	47.1		20
PCB-155	Hexa	PRC	4620		20	6280		20
PCB-156	Hexa		64.2		20	44.5		20
PCB-157	Hexa			U	11.7	14.3	J	20
PCB-158	Hexa		80.2	C	20	62.2	C	20
PCB-159	Hexa			U	11.4	16.1	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	12.2		U	8.96
PCB-167	Hexa		33.8		20	24.3		20
PCB-168	Hexa			U	12.5		U	9.24

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CB-S010-LONG			LDW-Y3-SC-ENR+AC-CC-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		89.4	C	20	102	C	20
PCB-86	Penta			U	17.6		U	12.7
PCB-87	Penta		223	C	20	226	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	14.6	14.3	J	20
PCB-90	Penta		797	C	20	788	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	9.56		U	8.46
PCB-94	Penta			U	10		U	8.86
PCB-95	Penta		923		20	910		20
PCB-96	Penta			U	7.1	14.9	J	20
PCB-97	Penta		217		20	207		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		318		20	314		20
PCB-100	Penta		26.3		20	23.4		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		28.8		20	26.6		20
PCB-104	Penta	PRC	3600		20	3510		20
PCB-105	Penta		163		20	152		20
PCB-106	Penta		446	C	20	434	C	20
PCB-107	Penta		44.6	C	20	33.6	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	10.6		U	7.66
PCB-110	Penta		634		20	642		20
PCB-111	Penta		15.3	C,J	20	15.4	C,J	20
PCB-112	Penta			C083			C083	
PCB-113	Penta		301		20		U	8.16
PCB-114	Penta			U	7.75	13.3	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		18.3	J	20	21.7		20
PCB-120	Penta			U	9.81		U	7.06
PCB-121	Penta	PRC	5580		20	5320		20
PCB-122	Penta			U	8.21		U	6.51
PCB-123	Penta			U	8.33	10.1	J	20
PCB-124	Penta		27.1		20	21.8		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	8.04		U	6.92
PCB-127	Penta			U	8.14		U	6.45
PCB-128	Hexa		85	C	20	78	C	20
PCB-129	Hexa		34.8		20	29.9		20
PCB-130	Hexa		49.6		20	42.1		20
PCB-131	Hexa		26.1	C	20	27.5	C	20
PCB-132	Hexa		203	C	20	202	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		61.4	C	20	48.5	C	20
PCB-135	Hexa		122		20	101		20
PCB-136	Hexa		169		20	177		20
PCB-137	Hexa		26.8		20	24.7		20
PCB-138	Hexa		661	C	20	559	C	20
PCB-139	Hexa		792	C	20	688	C	20
PCB-140	Hexa			U	12.7	11.6	J	20
PCB-141	Hexa		130		20	106		20
PCB-142	Hexa	PRC	1220		20	995		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		45.9		20	54.3		20
PCB-145	Hexa			U	8.59		U	9.35
PCB-146	Hexa		117	C	20	111	C	20
PCB-147	Hexa		23.8		20	18.3	J	20
PCB-148	Hexa			U	12.1		U	13.2
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	8.35		U	9.09
PCB-151	Hexa		236		20	222		20
PCB-152	Hexa			U	8.68		U	9.44
PCB-153	Hexa		805		20	713		20
PCB-154	Hexa		38.5		20	52.4		20
PCB-155	Hexa	PRC	6740		20	6690		20
PCB-156	Hexa		51		20	40.9		20
PCB-157	Hexa		18.5	J	20	10.6	J	20
PCB-158	Hexa		64.4	C	20	53.2	C	20
PCB-159	Hexa		13.6	J	20	13.9	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	10.1		U	7.54
PCB-167	Hexa		36.1		20	19.7	J	20
PCB-168	Hexa			U	10.3		U	7.73

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP			LDW-Y3-SC-ENR-CA-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		122	C	20	93.9	C	20
PCB-86	Penta			U	9.01		U	10.3
PCB-87	Penta		282	C	20	212	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		16.3	J	20	17.8	J	20
PCB-90	Penta		947	C	20	724	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	9.15		U	8.85
PCB-94	Penta			U	9.73		U	9.41
PCB-95	Penta		981		20	781		20
PCB-96	Penta		18	J	20		U	6.78
PCB-97	Penta		255		20	205		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		381		20	286		20
PCB-100	Penta		31.4		20	23.1		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		33		20	18.7	J	20
PCB-104	Penta	PRC	3820		20	3260		20
PCB-105	Penta		168		20	132		20
PCB-106	Penta		444	C	20	356	C	20
PCB-107	Penta		42.3	C	20	30.8	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	6.32		U	7.22
PCB-110	Penta		797		20	606		20
PCB-111	Penta		14.8	C,J	20	11.2	C,J	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.93		U	7.92
PCB-114	Penta		12.7	J	20	11.3	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		29.7		20	23.5		20
PCB-120	Penta			U	5.66		U	6.46
PCB-121	Penta	PRC	5260		20	4680		20
PCB-122	Penta			U	5.91		U	6.37
PCB-123	Penta		10.4	J	20	9.52	J	20
PCB-124	Penta		30		20	21.9		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	6.79		U	7.21
PCB-127	Penta			U	6.32		U	6.81
PCB-128	Hexa		84.2	C	20	61.1	C	20
PCB-129	Hexa		28.7		20	22.7		20
PCB-130	Hexa		43.2		20	36.7		20
PCB-131	Hexa		26.4	C	20	18	C,J	20
PCB-132	Hexa		250	C	20	156	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		51.3	C	20	40.3	C	20
PCB-135	Hexa		119		20	78		20
PCB-136	Hexa		186		20	131		20
PCB-137	Hexa		25.8		20	15.7	J	20
PCB-138	Hexa		620	C	20	430	C	20
PCB-139	Hexa		751	C	20	481	C	20
PCB-140	Hexa		14.2	J	20		U	7.65
PCB-141	Hexa		118		20	75.7		20
PCB-142	Hexa	PRC	959		20	824		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		52.6		20	35.5		20
PCB-145	Hexa			U	9.9		U	8.15
PCB-146	Hexa		118	C	20	82	C	20
PCB-147	Hexa		26.4		20	15.2	J	20
PCB-148	Hexa			U	12.8		U	10.5
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	9.86		U	8.12
PCB-151	Hexa		233		20	164		20
PCB-152	Hexa			U	9.99		U	8.22
PCB-153	Hexa		708		20	520		20
PCB-154	Hexa		47.4		20	39.4		20
PCB-155	Hexa	PRC	6370		20	5310		20
PCB-156	Hexa		43.5		20	32.9		20
PCB-157	Hexa			U	9.16		U	6.8
PCB-158	Hexa		65.3	C	20	47	C	20
PCB-159	Hexa		21.7		20	18.3	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	8.17		U	6.39
PCB-167	Hexa		17.5	J	20	17.2	J	20
PCB-168	Hexa			U	7.95		U	6.22

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CC-S010			LDW-Y3-SC-ENR-CD-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		140	C	20	100	C	20
PCB-86	Penta			U	12.1		U	8.97
PCB-87	Penta		307	C	20	252	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		18.9	J	20	13	J	20
PCB-90	Penta		1020	C	20	835	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.76		U	6.1
PCB-94	Penta		16.4	J	20		U	6.48
PCB-95	Penta		1110		20	868		20
PCB-96	Penta		17.8	J	20	17.5	J	20
PCB-97	Penta		290		20	234		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		405		20	335		20
PCB-100	Penta		24.8		20	23.6		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		29.6		20	25.3		20
PCB-104	Penta	PRC	2890		20	2860		20
PCB-105	Penta		197		20	136		20
PCB-106	Penta		561	C	20	389	C	20
PCB-107	Penta		48.8	C	20	33.3	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	8.48		U	6.29
PCB-110	Penta		850		20	695		20
PCB-111	Penta		12.7	C,J	20	14.3	C,J	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	9.25		U	6.9
PCB-114	Penta		15	J	20		U	6.7
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		26.6		20	24.6		20
PCB-120	Penta			U	7.35		U	5.63
PCB-121	Penta	PRC	5260		20	4430		20
PCB-122	Penta		12.7	J	20		U	6.65
PCB-123	Penta		11.8	J	20	11.3	J	20
PCB-124	Penta		33.1		20	23.6		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	9.64		U	6.79
PCB-127	Penta			U	8.12		U	7.11
PCB-128	Hexa		90.3	C	20	62.7	C	20
PCB-129	Hexa		31.7		20	27.8		20
PCB-130	Hexa		42.9		20	36.4		20
PCB-131	Hexa		28.7	C	20	22.2	C	20
PCB-132	Hexa		210	C	20	192	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		52.8	C	20	47.8	C	20
PCB-135	Hexa		137		20	105		20
PCB-136	Hexa		185		20	135		20
PCB-137	Hexa		24		20	32.4		20
PCB-138	Hexa		671	C	20	518	C	20
PCB-139	Hexa		764	C	20	622	C	20
PCB-140	Hexa			U	9.89		U	8.5
PCB-141	Hexa		107		20	98.2		20
PCB-142	Hexa	PRC	772		20	856		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		43.6		20	38.7		20
PCB-145	Hexa			U	7.13		U	6.19
PCB-146	Hexa		112	C	20	96.5	C	20
PCB-147	Hexa		19.2	J	20	16.7	J	20
PCB-148	Hexa			U	8.26		U	7.98
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.13		U	6.17
PCB-151	Hexa		228		20	206		20
PCB-152	Hexa			U	6.59		U	6.24
PCB-153	Hexa		669		20	601		20
PCB-154	Hexa		34.2		20	35.9		20
PCB-155	Hexa	PRC	5500		20	5450		20
PCB-156	Hexa		44.5		20	35.4		20
PCB-157	Hexa		12.5	J	20	11.4	J	20
PCB-158	Hexa		63	C	20	51.5	C	20
PCB-159	Hexa		15.7	J	20	13.6	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	8.82		U	7.1
PCB-167	Hexa		20.4		20	17.8	J	20
PCB-168	Hexa			U	9.05		U	6.91

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CA-S010-LONG			LDW-Y3-SC-ENR-CC-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		123	C	20	121	C	20
PCB-86	Penta			U	11.8		U	11.4
PCB-87	Penta		298	C	20	276	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		16.5	J	20	17.9	J	20
PCB-90	Penta		962	C	20	986	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	7.36		U	6.06
PCB-94	Penta		10	J	20		U	6.45
PCB-95	Penta		984		20	1060		20
PCB-96	Penta		16.1	J	20	16.3	J	20
PCB-97	Penta		281		20	268		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		388		20	382		20
PCB-100	Penta		18.1	J	20	18.6	J	20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		27.1		20	24.3		20
PCB-104	Penta	PRC	2770		20	2460		20
PCB-105	Penta		164		20	173		20
PCB-106	Penta		480	C	20	479	C	20
PCB-107	Penta		39.7	C	20	40.9	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	8.26		U	8
PCB-110	Penta		816		20	839		20
PCB-111	Penta		17.7	C,J	20	23.7	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	9.06		U	8.78
PCB-114	Penta		12.1	J	20	14.7	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		27.6		20	30.7		20
PCB-120	Penta			U	7.4		U	7.17
PCB-121	Penta	PRC	4150		20	3760		20
PCB-122	Penta		10.3	J	20		U	6.22
PCB-123	Penta		13.8	J	20	13	J	20
PCB-124	Penta		26.4		20	29.4		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	7.69		U	6.29
PCB-127	Penta			U	6.65		U	6.63
PCB-128	Hexa		79.4	C	20	81.5	C	20
PCB-129	Hexa		27.8		20	29.9		20
PCB-130	Hexa		49		20	39.1		20
PCB-131	Hexa		29.5	C	20	26.7	C	20
PCB-132	Hexa		196	C	20	223	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		49.6	C	20	46.7	C	20
PCB-135	Hexa		116		20	137		20
PCB-136	Hexa		166		20	180		20
PCB-137	Hexa		22.4		20	31.4		20
PCB-138	Hexa		603	C	20	618	C	20
PCB-139	Hexa		709	C	20	744	C	20
PCB-140	Hexa			U	9.72	12.7	J	20
PCB-141	Hexa		108		20	113		20
PCB-142	Hexa	PRC	817		20	700		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		39		20	43.2		20
PCB-145	Hexa			U	8.44		U	6.46
PCB-146	Hexa		110	C	20	108	C	20
PCB-147	Hexa		16.2	J	20	24		20
PCB-148	Hexa			U	10.9		U	8.33
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	8.41		U	6.44
PCB-151	Hexa		232		20	228		20
PCB-152	Hexa			U	8.52		U	6.52
PCB-153	Hexa		696		20	709		20
PCB-154	Hexa		35.9		20	37		20
PCB-155	Hexa	PRC	5100		20	4590		20
PCB-156	Hexa		42.7		20	38.7		20
PCB-157	Hexa		13.9	J	20		U	8.59
PCB-158	Hexa		55.7	C	20	62.5	C	20
PCB-159	Hexa		13.4	J	20	16.5	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	8.12		U	8.11
PCB-167	Hexa		18.2	J	20	22.3		20
PCB-168	Hexa			U	7.9		U	7.9

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG			LDW-Y3-SC-ENR-S010-DEP		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		101	C	20	105	C	20
PCB-86	Penta			U	12.7		U	14
PCB-87	Penta		246	C	20	272	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		16.2	J	20	16.6	J	20
PCB-90	Penta		787	C	20	863	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.26		U	7.99
PCB-94	Penta			U	7.47		U	9.53
PCB-95	Penta		992		20	1030		20
PCB-96	Penta		16.2	J	20		U	6.14
PCB-97	Penta		236		20	246		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		323		20	347		20
PCB-100	Penta		20.4		20	30.6		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		23.9		20	29		20
PCB-104	Penta	PRC	3080		20	3470		20
PCB-105	Penta		176		20	167		20
PCB-106	Penta		458	C	20	489	C	20
PCB-107	Penta		36.4	C	20	44	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	8.9		U	9.78
PCB-110	Penta		734		20	757		20
PCB-111	Penta		14.4	C,J	20	20.3	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	9.71		U	10.7
PCB-114	Penta		13.6	J	20	17.8	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		25.5		20	27.3		20
PCB-120	Penta			U	7.72		U	8.48
PCB-121	Penta	PRC	4940		20	5290		20
PCB-122	Penta		8.83	J	20		U	7.42
PCB-123	Penta		14.2	J	20	14	J	20
PCB-124	Penta		23		20	25		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	6.28		U	8.35
PCB-127	Penta			U	6.02		U	7.58
PCB-128	Hexa		77.4	C	20	88.2	C	20
PCB-129	Hexa		25		20	32.6		20
PCB-130	Hexa		37.7		20	39.5		20
PCB-131	Hexa		22.5	C	20	28.4	C	20
PCB-132	Hexa		176	C	20	198	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		41.2	C	20	55.7	C	20
PCB-135	Hexa		113		20	131		20
PCB-136	Hexa		172		20	173		20
PCB-137	Hexa		17.8	J	20	23.3		20
PCB-138	Hexa		541	C	20	599	C	20
PCB-139	Hexa		629	C	20	728	C	20
PCB-140	Hexa			U	9.02		U	9.45
PCB-141	Hexa		98.3		20	106		20
PCB-142	Hexa	PRC	754		20	782		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		42.9		20	43.4		20
PCB-145	Hexa			U	8.74		U	10
PCB-146	Hexa		102	C	20	111	C	20
PCB-147	Hexa		18.1	J	20	22		20
PCB-148	Hexa			U	10.1		U	11.6
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	8.75		U	10
PCB-151	Hexa		192		20	230		20
PCB-152	Hexa			U	8.09		U	9.28
PCB-153	Hexa		597		20	643		20
PCB-154	Hexa		33.9		20	34.4		20
PCB-155	Hexa	PRC	5790		20	5470		20
PCB-156	Hexa		43.3		20	40.2		20
PCB-157	Hexa		11.8	J	20		U	9.61
PCB-158	Hexa		59	C	20	63.9	C	20
PCB-159	Hexa		13.6	J	20		U	7.84
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	8.05		U	8.43
PCB-167	Hexa		19.7	J	20	21.6		20
PCB-168	Hexa			U	8.26		U	8.65

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CA-S010			LDW-Y3-SU-ENR+AC-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		216	C	20	210	C	20
PCB-86	Penta			U	9.05		U	12.5
PCB-87	Penta		507	C	20	565	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		36.1		20	31.5		20
PCB-90	Penta		2150	C	20	1740	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	4.55		U	4.67
PCB-94	Penta		19	J	20	18.6	J	20
PCB-95	Penta		2640		20	1900		20
PCB-96	Penta		32.2		20	25.1		20
PCB-97	Penta		641		20	534		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		902		20	657		20
PCB-100	Penta		31.3		20	20.7		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		70.7		20	30.8		20
PCB-104	Penta	PRC	2080		20	1600		20
PCB-105	Penta		304		20	285		20
PCB-106	Penta		1010	C	20	889	C	20
PCB-107	Penta		97.5	C	20	76.9	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	6.33		U	8.75
PCB-110	Penta		1820		20	1540		20
PCB-111	Penta		22.1	C	20	26.1	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.9		U	9.55
PCB-114	Penta		25		20	33.6		20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		80.1		20	41.7		20
PCB-120	Penta		11.9	J	20		U	7.59
PCB-121	Penta	PRC	4260		20	3260		20
PCB-122	Penta		12.4	J	20	11.4	J	20
PCB-123	Penta		19.1	J	20	19.5	J	20
PCB-124	Penta		44.2		20	47.6		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	6.42		U	6.21
PCB-127	Penta			U	6.18		U	5.69
PCB-128	Hexa		137	C	20	122	C	20
PCB-129	Hexa		42.4		20	41.8		20
PCB-130	Hexa		77.4		20	59.5		20
PCB-131	Hexa		47.4	C	20	39.6	C	20
PCB-132	Hexa		378	C	20	306	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		89.1	C	20	74.3	C	20
PCB-135	Hexa		249		20	178		20
PCB-136	Hexa		324		20	239		20
PCB-137	Hexa		41.5		20	41.6		20
PCB-138	Hexa		1050	C	20	851	C	20
PCB-139	Hexa		1290	C	20	964	C	20
PCB-140	Hexa		18.1	J	20		U	7.81
PCB-141	Hexa		177		20	165		20
PCB-142	Hexa	PRC	592		20	466		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		62.8		20	52		20
PCB-145	Hexa			U	6.79		U	6.57
PCB-146	Hexa		215	C	20	148	C	20
PCB-147	Hexa		30.1		20	21.1		20
PCB-148	Hexa			U	7.86		U	7.61
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	6.8		U	6.58
PCB-151	Hexa		357		20	294		20
PCB-152	Hexa			U	6.28		U	6.07
PCB-153	Hexa		1000		20	796		20
PCB-154	Hexa		50.4		20	33		20
PCB-155	Hexa	PRC	4030		20	3120		20
PCB-156	Hexa		64.2		20	60.7		20
PCB-157	Hexa		20.3		20	15.2	J	20
PCB-158	Hexa		108	C	20	99.2	C	20
PCB-159	Hexa		15.3	J	20	14.1	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	7.68		U	6.97
PCB-167	Hexa		32.9		20	29.2		20
PCB-168	Hexa			U	7.88		U	7.15

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CD-S010			LDW-Y3-SU-ENR+AC-CA-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		248	C	20	210	C	20
PCB-86	Penta			U	12.4		U	13.6
PCB-87	Penta		671	C	20	476	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		37.3		20	25.3		20
PCB-90	Penta		2300	C	20	1710	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	4.94		U	6.06
PCB-94	Penta		22.9		20	22.5		20
PCB-95	Penta		2530		20	1890		20
PCB-96	Penta		32.9		20	23.1		20
PCB-97	Penta		674		20	505		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		887		20	663		20
PCB-100	Penta		30.8		20	31.2		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		56.9		20	49.7		20
PCB-104	Penta	PRC	1970		20	3890		20
PCB-105	Penta		363		20	261		20
PCB-106	Penta		1120	C	20	852	C	20
PCB-107	Penta		102	C	20	86.7	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	8.7		U	9.54
PCB-110	Penta		1960		20	1410		20
PCB-111	Penta		33.4	C	20	18.7	C,J	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	9.49		U	10.4
PCB-114	Penta		33.8		20	25.3		20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		61.8		20	53.7		20
PCB-120	Penta			U	7.54		U	8.27
PCB-121	Penta	PRC	3970		20	6290		20
PCB-122	Penta		17.8	J	20	12.6	J	20
PCB-123	Penta		26.5		20	19.8	J	20
PCB-124	Penta		61.6		20	44		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	8.49		U	8.19
PCB-127	Penta			U	7.04		U	7.04
PCB-128	Hexa		171	C	20	122	C	20
PCB-129	Hexa		53.4		20	43.5		20
PCB-130	Hexa		80.7		20	71.2		20
PCB-131	Hexa		55	C	20	45.1	C	20
PCB-132	Hexa		449	C	20	320	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		102	C	20	78.4	C	20
PCB-135	Hexa		251		20	200		20
PCB-136	Hexa		365		20	299		20
PCB-137	Hexa		58.4		20	41.9		20
PCB-138	Hexa		1220	C	20	941	C	20
PCB-139	Hexa		1370	C	20	1110	C	20
PCB-140	Hexa		21.2		20	15.6	J	20
PCB-141	Hexa		217		20	177		20
PCB-142	Hexa	PRC	562		20	935		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		85.9		20	59.6		20
PCB-145	Hexa			U	7.14		U	10.4
PCB-146	Hexa		220	C	20	186	C	20
PCB-147	Hexa		31.2		20	22.9		20
PCB-148	Hexa			U	8.27		U	12.1
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.14		U	10.4
PCB-151	Hexa		421		20	324		20
PCB-152	Hexa			U	6.6		U	9.63
PCB-153	Hexa		1130		20	968		20
PCB-154	Hexa		50.5		20	57.6		20
PCB-155	Hexa	PRC	3840		20	6190		20
PCB-156	Hexa		82.8		20	66.3		20
PCB-157	Hexa		23.1		20	17.1	J	20
PCB-158	Hexa		125	C	20	92.4	C	20
PCB-159	Hexa		18.2	J	20	11.8	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	7.67		U	8.99
PCB-167	Hexa		36.3		20	30.1		20
PCB-168	Hexa			U	7.87		U	9.22

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO			LDW-Y3-SU-ENR+AC-CC-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		132	C	20	195	C	20
PCB-86	Penta			U	10.5		U	11.6
PCB-87	Penta		341	C	20	477	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		18.1	J	20	30		20
PCB-90	Penta		1190	C	20	1650	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.51		U	3.82
PCB-94	Penta			U	7.77		U	4.55
PCB-95	Penta		1340		20	1750		20
PCB-96	Penta		18.5	J	20	23.3		20
PCB-97	Penta		323		20	479		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		469		20	640		20
PCB-100	Penta		24.1		20	27.2		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		34.8		20	41.4		20
PCB-104	Penta	PRC	4400		20	3660		20
PCB-105	Penta		192		20	257		20
PCB-106	Penta		605	C	20	798	C	20
PCB-107	Penta		56.7	C	20	70.8	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	7.37		U	8.09
PCB-110	Penta		974		20	1360		20
PCB-111	Penta		21.6	C	20	21	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	8.04		U	8.82
PCB-114	Penta		20.9		20	25.2		20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		33.9		20	47.4		20
PCB-120	Penta			U	6.39		U	7.01
PCB-121	Penta	PRC	6730		20	5850		20
PCB-122	Penta			U	5.44	11.8	J	20
PCB-123	Penta		13	J	20	15.4	J	20
PCB-124	Penta		31.9		20	44.6		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	6.2		U	6.1
PCB-127	Penta			U	5.56		U	5.12
PCB-128	Hexa		104	C	20	128	C	20
PCB-129	Hexa		35.7		20	38.4		20
PCB-130	Hexa		51.5		20	60.3		20
PCB-131	Hexa		30	C	20	44.3	C	20
PCB-132	Hexa		247	C	20	343	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		58.3	C	20	74.9	C	20
PCB-135	Hexa		157		20	182		20
PCB-136	Hexa		210		20	256		20
PCB-137	Hexa		30.9		20	36.9		20
PCB-138	Hexa		694	C	20	877	C	20
PCB-139	Hexa		831	C	20	1040	C	20
PCB-140	Hexa		13.3	J	20	13.6	J	20
PCB-141	Hexa		126		20	151		20
PCB-142	Hexa	PRC	932		20	886		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		41.6		20	74.9		20
PCB-145	Hexa			U	6.72		U	6.39
PCB-146	Hexa		143	C	20	173	C	20
PCB-147	Hexa		18.6	J	20	19.9	J	20
PCB-148	Hexa			U	7.78		U	7.4
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	6.72		U	6.4
PCB-151	Hexa		260		20	307		20
PCB-152	Hexa			U	6.21		U	5.91
PCB-153	Hexa		722		20	854		20
PCB-154	Hexa		41		20	37.8		20
PCB-155	Hexa	PRC	6960		20	5940		20
PCB-156	Hexa		46.1		20	56.3		20
PCB-157	Hexa		13.2	J	20	15.2	J	20
PCB-158	Hexa		71.3	C	20	91.3	C	20
PCB-159	Hexa		11.5	J	20	15.1	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	7.04		U	6.27
PCB-167	Hexa		20.8		20	29		20
PCB-168	Hexa			U	7.22		U	6.43

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CA-S010			LDW-Y3-SU-ENR-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		295	C	20	198	C	20
PCB-86	Penta			U	10.8		U	10.2
PCB-87	Penta		711	C	20	512	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		29.5		20	33.5		20
PCB-90	Penta		2680	C	20	1760	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.14		U	5.15
PCB-94	Penta		19.3	J	20	16.1	J	20
PCB-95	Penta		2830		20	1930		20
PCB-96	Penta		32.3		20	21.7		20
PCB-97	Penta		794		20	531		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		1160		20	730		20
PCB-100	Penta		30.1		20	20.8		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		68.3		20	39.1		20
PCB-104	Penta	PRC	1950		20	1780		20
PCB-105	Penta		455		20	290		20
PCB-106	Penta		1360	C	20	834	C	20
PCB-107	Penta		134	C	20	17.8	C,J	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	6.55		U	6.15
PCB-110	Penta		2270		20	1500		20
PCB-111	Penta		34.1	C	20	28.8	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.98		U	6.56
PCB-114	Penta		34.9		20	22.1		20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		96.7		20	69.2		20
PCB-120	Penta			U	6.04		U	5.67
PCB-121	Penta	PRC	3290		20	3140		20
PCB-122	Penta		20		20	9.78	J	20
PCB-123	Penta		28.5		20	19.9	J	20
PCB-124	Penta		70.9		20	43.7		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	7.23		U	4.99
PCB-127	Penta			U	7.21		U	4.93
PCB-128	Hexa		253	C	20	128	C	20
PCB-129	Hexa		85.2		20	55		20
PCB-130	Hexa		142		20	78.9		20
PCB-131	Hexa		77.3	C	20	44.1	C	20
PCB-132	Hexa		680	C	20	389	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		141	C	20	90.3	C	20
PCB-135	Hexa		321		20	192		20
PCB-136	Hexa		428		20	272		20
PCB-137	Hexa		87.1		20	48.1		20
PCB-138	Hexa		1780	C	20	996	C	20
PCB-139	Hexa		1930	C	20	1170	C	20
PCB-140	Hexa		33.4		20	16.2	J	20
PCB-141	Hexa		342		20	188		20
PCB-142	Hexa	PRC	584		20	618		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		129		20	84.5		20
PCB-145	Hexa			U	8.04		U	7.9
PCB-146	Hexa		326	C	20	186	C	20
PCB-147	Hexa		52.8		20	30.6		20
PCB-148	Hexa			U	11.3		U	11.1
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.81		U	7.67
PCB-151	Hexa		583		20	359		20
PCB-152	Hexa			U	8.12		U	7.97
PCB-153	Hexa		1850		20	1040		20
PCB-154	Hexa		70.1		20	39.8		20
PCB-155	Hexa	PRC	3590		20	3750		20
PCB-156	Hexa		133		20	62.3		20
PCB-157	Hexa		30		20	15.7	J	20
PCB-158	Hexa		186	C	20	96.7	C	20
PCB-159	Hexa		29.7		20	18.7	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	6.81		U	6.86
PCB-167	Hexa		60.5		20	30.3		20
PCB-168	Hexa			U	6.98		U	7.03

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CC-S010			LDW-Y3-SU-ENR-CA-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		276	C	20	168	C	20
PCB-86	Penta			U	10.3		U	14.2
PCB-87	Penta		692	C	20	409	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		34.7		20	23.9		20
PCB-90	Penta		2250	C	20	1500	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	5.12		U	6.71
PCB-94	Penta		16.8	J	20		U	7.02
PCB-95	Penta		2210		20	1590		20
PCB-96	Penta		28.8		20	17.3	J	20
PCB-97	Penta		658		20	430		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		857		20	611		20
PCB-100	Penta		26.2		20	24.3		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		36.3		20	37.5		20
PCB-104	Penta	PRC	1820		20	3040		20
PCB-105	Penta		378		20	221		20
PCB-106	Penta		1080	C	20	729	C	20
PCB-107	Penta		92.1	C	20	16.2	C,J	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	6.23		U	8.58
PCB-110	Penta		1930		20	1220		20
PCB-111	Penta		49.1	C	20	26.8	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.65		U	9.15
PCB-114	Penta		29		20	17.8	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		53.3		20	46.7		20
PCB-120	Penta			U	5.75		U	7.91
PCB-121	Penta	PRC	3270		20	4360		20
PCB-122	Penta		18.8	J	20	14.9	J	20
PCB-123	Penta		22.5		20	17.3	J	20
PCB-124	Penta		60.4		20	34.3		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	7.88		U	9.23
PCB-127	Penta			U	7.76		U	7.55
PCB-128	Hexa		159	C	20	132	C	20
PCB-129	Hexa		59.5		20	37.8		20
PCB-130	Hexa		87.1		20	73.1		20
PCB-131	Hexa		52.3	C	20	50.1	C	20
PCB-132	Hexa		391	C	20	327	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		109	C	20	85.4	C	20
PCB-135	Hexa		204		20	195		20
PCB-136	Hexa		294		20	291		20
PCB-137	Hexa		50.3		20	40.2		20
PCB-138	Hexa		1130	C	20	869	C	20
PCB-139	Hexa		1230	C	20	1040	C	20
PCB-140	Hexa		16.2	J	20	25.6		20
PCB-141	Hexa		224		20	160		20
PCB-142	Hexa	PRC	601		20	876		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		83.9		20	73.3		20
PCB-145	Hexa			U	7.84		U	8.24
PCB-146	Hexa		186	C	20	204	C	20
PCB-147	Hexa		31.4		20	36.8		20
PCB-148	Hexa			U	11		U	11.6
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.62		U	8
PCB-151	Hexa		403		20	347		20
PCB-152	Hexa			U	7.92		U	8.32
PCB-153	Hexa		1160		20	1030		20
PCB-154	Hexa		40.7		20	62.9		20
PCB-155	Hexa	PRC	3650		20	5130		20
PCB-156	Hexa		74.2		20	57.8		20
PCB-157	Hexa		20.8		20	19	J	20
PCB-158	Hexa		120	C	20	81.9	C	20
PCB-159	Hexa		16	J	20	19.4	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	7.67		U	8.8
PCB-167	Hexa		36.3		20	28.9		20
PCB-168	Hexa			U	7.86		U	9.02

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO			LDW-Y3-SU-ENR-CC-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		341	C	20	175	C	20
PCB-86	Penta			U	13.8		U	15.4
PCB-87	Penta		789	C	20	422	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		49.7		20	25.2		20
PCB-90	Penta		2860	C	20	1400	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.21		U	5.23
PCB-94	Penta		32		20	16	J	20
PCB-95	Penta		3210		20	1410		20
PCB-96	Penta		52.5		20	18.5	J	20
PCB-97	Penta		924		20	415		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		1240		20	555		20
PCB-100	Penta		29.6		20	19.9	J	20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		71.1		20	24.7		20
PCB-104	Penta	PRC	3850		20	3650		20
PCB-105	Penta		411		20	229		20
PCB-106	Penta		1380	C	20	643	C	20
PCB-107	Penta		142	C	20	60.9	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	8.35		U	9.29
PCB-110	Penta		2540		20	1200		20
PCB-111	Penta		30.1	C	20	29.4	C	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	8.9		U	9.91
PCB-114	Penta		32.1		20	22		20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		95.2		20		U	8.74
PCB-120	Penta			U	7.7		U	8.57
PCB-121	Penta	PRC	5580		20	5030		20
PCB-122	Penta		19.4	J	20	11.5	J	20
PCB-123	Penta		23.8		20	11	J	20
PCB-124	Penta		55		20	40.7		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	7.68		U	7.09
PCB-127	Penta			U	6.94		U	6.54
PCB-128	Hexa		184	C	20	102	C	20
PCB-129	Hexa		68.3		20	42.8		20
PCB-130	Hexa		112		20	63.7		20
PCB-131	Hexa		58.7	C	20	30.9	C	20
PCB-132	Hexa		470	C	20	270	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		131	C	20	68.4	C	20
PCB-135	Hexa		276		20	149		20
PCB-136	Hexa		404		20	188		20
PCB-137	Hexa		70.3		20	32.2		20
PCB-138	Hexa		1310	C	20	759	C	20
PCB-139	Hexa		1660	C	20	856	C	20
PCB-140	Hexa		24.3		20	11.1	J	20
PCB-141	Hexa		248		20	150		20
PCB-142	Hexa	PRC	1090		20	970		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		115		20	53.2		20
PCB-145	Hexa			U	6.74		U	7.17
PCB-146	Hexa		249	C	20	142	C	20
PCB-147	Hexa		43.6		20	19.3	J	20
PCB-148	Hexa			U	9.48		U	10.1
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	6.55		U	6.97
PCB-151	Hexa		518		20	255		20
PCB-152	Hexa			U	6.8		U	7.24
PCB-153	Hexa		1400		20	866		20
PCB-154	Hexa		63		20	31.5		20
PCB-155	Hexa	PRC	6260		20	6090		20
PCB-156	Hexa		78.1		20	56		20
PCB-157	Hexa		18.8	J	20	16.6	J	20
PCB-158	Hexa		140	C	20	82.7	C	20
PCB-159	Hexa		20.3		20	15.4	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	8.64		U	7.9
PCB-167	Hexa		39.5		20	25.9		20
PCB-168	Hexa			U	8.85		U	8.1

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-LCB			LDW-Y3-LBS-WAT-S010-SPME		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta			UC	20		UC	20
PCB-86	Penta			U	9.21		U	11.4
PCB-87	Penta			UC	20		UC	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	7.65		U	10.9
PCB-90	Penta			UC	20		UC	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.15		U	10.3
PCB-94	Penta			U	6.44		U	10.2
PCB-95	Penta			U	5.96		U	8.77
PCB-96	Penta			U	4.57		U	7.34
PCB-97	Penta			U	8.08		U	10.8
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta			U	6.25		U	8.73
PCB-100	Penta			U	5.41		U	8.53
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta			U	5.33		U	8.58
PCB-104	Penta	PRC	2240		20	2460		20
PCB-105	Penta			U	4.58		U	7.05
PCB-106	Penta			UC	20		UC	20
PCB-107	Penta			UC	20		UC	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	5.56		U	7.63
PCB-110	Penta		10.1	J	20		U	7.23
PCB-111	Penta			UC	20		UC	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	5.93		U	7.88
PCB-114	Penta			U	4.28		U	7.63
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta			U	5.24		U	7.07
PCB-120	Penta			U	5.13		U	6.87
PCB-121	Penta	PRC	3350		20	3560		20
PCB-122	Penta			U	4.86		U	6.92
PCB-123	Penta			U	5.63		U	7.81
PCB-124	Penta			U	4.63		U	6.78
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	5.4		U	9.18
PCB-127	Penta			U	4.82		U	7.3
PCB-128	Hexa			UC	20		UC	20
PCB-129	Hexa			U	8.43		U	10.7
PCB-130	Hexa			U	8.71		U	9.61
PCB-131	Hexa			UC	20		UC	20
PCB-132	Hexa			UC	20	19.1	C,J	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa			UC	20		UC	20
PCB-135	Hexa			U	6.97		U	9.97
PCB-136	Hexa			U	6.1		U	8.82
PCB-137	Hexa			U	6.73		U	9.29
PCB-138	Hexa			UC	20		UC	20
PCB-139	Hexa			UC	20		UC	20
PCB-140	Hexa			U	6.8		U	8.73
PCB-141	Hexa			U	7.01		U	9.09
PCB-142	Hexa	PRC	724		20	714		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa			U	7.13		U	8.13
PCB-145	Hexa			U	6.16		U	8.46
PCB-146	Hexa		14	C,J	20	18.6	C,J	20
PCB-147	Hexa			U	6.85		U	8.97
PCB-148	Hexa			U	8.67		U	10.1
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	5.98		U	8.1
PCB-151	Hexa			U	7.13		U	9.3
PCB-152	Hexa			U	6.22		U	8.31
PCB-153	Hexa		62.7		20	52.4		20
PCB-154	Hexa			U	7.1		U	9.14
PCB-155	Hexa	PRC	4170		20	4050		20
PCB-156	Hexa			U	5.63		U	7.66
PCB-157	Hexa			U	5.49		U	7.61
PCB-158	Hexa			UC	20		UC	20
PCB-159	Hexa			U	5.04		U	6.82
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	5.41		U	6.96
PCB-167	Hexa			U	5.32		U	7.27
PCB-168	Hexa			U	5.55		U	7.22

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CA-S010			LDW-Y3-IN-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		74.5	C	20	88.8	C	20
PCB-86	Penta			U	8.6		U	7.88
PCB-87	Penta		187	C	20	196	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta		10.8	J	20		U	7.85
PCB-90	Penta		583	C	20	609	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	6.65		U	6.36
PCB-94	Penta			U	6.98		U	6.68
PCB-95	Penta		774		20	744		20
PCB-96	Penta			U	4.84		U	4.63
PCB-97	Penta		172		20	179		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		264		20	274		20
PCB-100	Penta		14.5	J	20	17.2	J	20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta		14.4	J	20	13.8	J	20
PCB-104	Penta	PRC	2580		20	2840		20
PCB-105	Penta		91.5		20	115		20
PCB-106	Penta		292	C	20	363	C	20
PCB-107	Penta		25.8	C	20	31.4	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	6.03		U	5.53
PCB-110	Penta		536		20	582		20
PCB-111	Penta		12.8	C,J	20	8.76	C,J	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.36		U	5.83
PCB-114	Penta			U	7.79	12.2	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		19.5	J	20	18.4	J	20
PCB-120	Penta			U	5.46		U	5
PCB-121	Penta	PRC	3590		20	3900		20
PCB-122	Penta			U	7.43		U	6.69
PCB-123	Penta			U	8.57	9.71	J	20
PCB-124	Penta		18.6	J	20	23.4		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	8.93		U	7.46
PCB-127	Penta			U	8.12		U	7.31
PCB-128	Hexa		59.6	C	20	74	C	20
PCB-129	Hexa		27.2		20	28.8		20
PCB-130	Hexa		35.6		20	35.4		20
PCB-131	Hexa		17.8	C,J	20	26.2	C	20
PCB-132	Hexa		138	C	20	173	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		40	C	20	42.8	C	20
PCB-135	Hexa		87		20	106		20
PCB-136	Hexa		86.8		20	107		20
PCB-137	Hexa		21.2		20	31.4		20
PCB-138	Hexa		363	C	20	439	C	20
PCB-139	Hexa		371	C	20	448	C	20
PCB-140	Hexa			U	10.5		U	6.84
PCB-141	Hexa		62.6		20	78.1		20
PCB-142	Hexa	PRC	774		20	837		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		19.5	J	20	20.1		20
PCB-145	Hexa			U	6.24		U	7.62
PCB-146	Hexa		77.4	C	20	82.7	C	20
PCB-147	Hexa		15.9	J	20	22.8		20
PCB-148	Hexa			U	7.22		U	8.82
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	6.1		U	7.45
PCB-151	Hexa		128		20	144		20
PCB-152	Hexa			U	6.19		U	7.56
PCB-153	Hexa		386		20	431		20
PCB-154	Hexa		22.2		20	29.1		20
PCB-155	Hexa	PRC	4240		20	4930		20
PCB-156	Hexa		25.1		20	33.1		20
PCB-157	Hexa		9.08	J	20	10.8	J	20
PCB-158	Hexa		41.7	C	20	52.5	C	20
PCB-159	Hexa			U	5.29	8.63	J	20
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	5.76		U	5.36
PCB-167	Hexa		16.1	J	20	20.1		20
PCB-168	Hexa			U	5.94		U	5.53

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010			LDW-Y3-IN-ENR-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		56.7	C	20	89.2	C	20
PCB-86	Penta			U	8.89		U	9.2
PCB-87	Penta		127	C	20	193	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	8.85		U	9.15
PCB-90	Penta		420	C	20	618	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	5.83		U	6.37
PCB-94	Penta			U	6.11		U	6.68
PCB-95	Penta		488		20	851		20
PCB-96	Penta			U	4.24		U	4.64
PCB-97	Penta		125		20	182		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		186		20	283		20
PCB-100	Penta			U	5.09	17.4	J	20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta			U	5.12	16.6	J	20
PCB-104	Penta	PRC	2350		20	2790		20
PCB-105	Penta		85.2		20	115		20
PCB-106	Penta		242	C	20	370	C	20
PCB-107	Penta		24.6	C	20	29.6	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	6.24		U	6.45
PCB-110	Penta		391		20	605		20
PCB-111	Penta			UC	20		UC	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.58		U	6.8
PCB-114	Penta			U	7.77	10.2	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		13.9	J	20	20.8		20
PCB-120	Penta			U	5.64		U	5.83
PCB-121	Penta	PRC	3640		20	4000		20
PCB-122	Penta			U	6.91		U	7.89
PCB-123	Penta			U	8.5		U	9.13
PCB-124	Penta		12	J	20	18.2	J	20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	8.45		U	8.44
PCB-127	Penta			U	7.55		U	8.64
PCB-128	Hexa		51.5	C	20	62	C	20
PCB-129	Hexa		19.7	J	20	24		20
PCB-130	Hexa		25.3		20	30.6		20
PCB-131	Hexa		16.6	C,J	20	20.4	C	20
PCB-132	Hexa		120	C	20	169	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		27.4	C	20	41	C	20
PCB-135	Hexa		73.1		20	89.6		20
PCB-136	Hexa		76.9		20	96		20
PCB-137	Hexa		20.3		20	26.4		20
PCB-138	Hexa		300	C	20	404	C	20
PCB-139	Hexa		301	C	20	424	C	20
PCB-140	Hexa			U	6.48		U	8.84
PCB-141	Hexa		60.8		20	69		20
PCB-142	Hexa	PRC	760		20	832		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		14.5	J	20	24.4		20
PCB-145	Hexa			U	7.56		U	6.96
PCB-146	Hexa		64.8	C	20	80.5	C	20
PCB-147	Hexa		15	J	20	18.6	J	20
PCB-148	Hexa			U	8.75		U	8.05
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.39		U	6.8
PCB-151	Hexa		98.7		20	129		20
PCB-152	Hexa			U	7.5		U	6.9
PCB-153	Hexa		317		20	386		20
PCB-154	Hexa		20.6		20	23.7		20
PCB-155	Hexa	PRC	4190		20	4800		20
PCB-156	Hexa		23.1		20	28.4		20
PCB-157	Hexa			U	5.07		U	6.7
PCB-158	Hexa		33.4	C	20	38.1	C	20
PCB-159	Hexa			U	4.66		U	6.36
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	5.08		U	6.93
PCB-167	Hexa		11.2	J	20	11.8	J	20
PCB-168	Hexa			U	5.24		U	7.15

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CC-S010			LDW-Y3-IN-ENR-CD-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta		108	C	20	82.2	C	20
PCB-86	Penta			U	16.2		U	11.8
PCB-87	Penta		218	C	20	188	C	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	16.1		U	11.7
PCB-90	Penta		708	C	20	611	C	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	11.3		U	7.18
PCB-94	Penta			U	11.8		U	7.54
PCB-95	Penta		991		20	836		20
PCB-96	Penta			U	8.21		U	5.23
PCB-97	Penta		209		20	183		20
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta		318		20	285		20
PCB-100	Penta			U	9.85	20.2		20
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta			U	9.9	19.8	J	20
PCB-104	Penta	PRC	2650		20	3660		20
PCB-105	Penta		138		20	119		20
PCB-106	Penta		408	C	20	364	C	20
PCB-107	Penta		46.4	C	20	34.4	C	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	11.4		U	8.25
PCB-110	Penta		682		20	576		20
PCB-111	Penta			UC	20		UC	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	12		U	8.7
PCB-114	Penta			U	12.2	12.5	J	20
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta		26.1		20	24.3		20
PCB-120	Penta			U	10.3		U	7.46
PCB-121	Penta	PRC	3600		20	5110		20
PCB-122	Penta			U	11.6		U	8.96
PCB-123	Penta			U	14.1	11.6	J	20
PCB-124	Penta		23		20	23.9		20
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	13.6		U	9.41
PCB-127	Penta			U	12.7		U	9.79
PCB-128	Hexa		77.2	C	20	70.6	C	20
PCB-129	Hexa		38.6		20	28.4		20
PCB-130	Hexa		33.6		20	34.2		20
PCB-131	Hexa		21.9	C	20	23.4	C	20
PCB-132	Hexa		197	C	20	158	C	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa		57	C	20	39.8	C	20
PCB-135	Hexa		129		20	99.1		20
PCB-136	Hexa		121		20	104		20
PCB-137	Hexa		35.9		20	22.9		20
PCB-138	Hexa		464	C	20	396	C	20
PCB-139	Hexa		478	C	20	415	C	20
PCB-140	Hexa			U	13.5		U	8.84
PCB-141	Hexa		82.4		20	76.1		20
PCB-142	Hexa	PRC	781		20	1040		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa		36		20	25		20
PCB-145	Hexa			U	11.9		U	8.65
PCB-146	Hexa		101	C	20	84.4	C	20
PCB-147	Hexa		30		20	20.8		20
PCB-148	Hexa			U	13.8		U	10
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	11.6		U	8.46
PCB-151	Hexa		188		20	147		20
PCB-152	Hexa			U	11.8		U	8.58
PCB-153	Hexa		427		20	432		20
PCB-154	Hexa		26.6		20	32.1		20
PCB-155	Hexa	PRC	4190		20	6430		20
PCB-156	Hexa		44.1		20	25.9		20
PCB-157	Hexa			U	10.7		U	7.08
PCB-158	Hexa		55.1	C	20	46	C	20
PCB-159	Hexa			U	9.69		U	6.36
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	10.6		U	6.93
PCB-167	Hexa		23.4		20	15.4	J	20
PCB-168	Hexa			U	10.9		U	7.14

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-EXTRA-S010-TB			LDW-Y3-SC-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta			UC	20		UC	20
PCB-86	Penta			U	7.48		U	9.75
PCB-87	Penta			UC	20		UC	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	7.45		U	8.61
PCB-90	Penta		13.1	C,J	20		UC	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	7.4		U	6.53
PCB-94	Penta			U	7.76		U	7.79
PCB-95	Penta			U	7.4		U	6.27
PCB-96	Penta			U	5.39		U	5.02
PCB-97	Penta			U	7.68		U	9.72
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta			U	6.08		U	7.16
PCB-100	Penta			U	6.46		U	6.45
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta			U	6.5		U	5.99
PCB-104	Penta	PRC	2990		20	2630		20
PCB-105	Penta			U	4.47		U	6.77
PCB-106	Penta			UC	20		UC	20
PCB-107	Penta			UC	20		UC	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	5.25		U	6.82
PCB-110	Penta			U	5.16		U	6.63
PCB-111	Penta			UC	20		UC	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	5.53		U	7.43
PCB-114	Penta			U	4.41		U	6.68
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta			U	5.05		U	6.25
PCB-120	Penta			U	4.75		U	5.91
PCB-121	Penta	PRC	4150		20	4140		20
PCB-122	Penta			U	4.45		U	6.29
PCB-123	Penta			U	5.14		U	6.66
PCB-124	Penta			U	4.82		U	6.52
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	4.9		U	7.36
PCB-127	Penta			U	4.87		U	6.42
PCB-128	Hexa			UC	20		UC	20
PCB-129	Hexa			U	8.64		U	11
PCB-130	Hexa			U	8		U	10.3
PCB-131	Hexa		903	C	20		UC	20
PCB-132	Hexa		21.3	C	20		UC	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa			UC	20		UC	20
PCB-135	Hexa			U	8.67		U	10.4
PCB-136	Hexa			U	8.65		U	7.52
PCB-137	Hexa			U	7.96		U	10.7
PCB-138	Hexa			UC	20		UC	20
PCB-139	Hexa			UC	20		UC	20
PCB-140	Hexa			U	7.31		U	8.59
PCB-141	Hexa			U	7.52		U	9.63
PCB-142	Hexa	PRC	914		20	638		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa			U	6.59		U	9.34
PCB-145	Hexa			U	7.9		U	7.44
PCB-146	Hexa		16.7	C,J	20		UC	20
PCB-147	Hexa			U	7.28		U	8.78
PCB-148	Hexa			U	9.15		U	8.62
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.73		U	7.45
PCB-151	Hexa			U	8.18		U	9.55
PCB-152	Hexa			U	7.84		U	6.88
PCB-153	Hexa		55.4		20	57.3		20
PCB-154	Hexa			U	8.84		U	8.49
PCB-155	Hexa	PRC	4670		20	4750		20
PCB-156	Hexa			U	5.48		U	8.57
PCB-157	Hexa			U	5.75		U	8.56
PCB-158	Hexa			UC	20		UC	20
PCB-159	Hexa			U	5.26		U	7.13
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	5.73		U	7.67
PCB-167	Hexa			U	6.24		U	8.35
PCB-168	Hexa			U	5.91		U	7.86

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-TB			LDW-Y3-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-85	Penta			UC	20		UC	20
PCB-86	Penta			U	8.82		U	12.3
PCB-87	Penta			UC	20		UC	20
PCB-88	Penta			UC	20		UC	20
PCB-89	Penta			U	8.43		U	12
PCB-90	Penta			UC	20		UC	20
PCB-91	Penta			C088			C088	
PCB-92	Penta			C084			C084	
PCB-93	Penta			U	5.03		U	10.7
PCB-94	Penta			U	4.98		U	11.2
PCB-95	Penta			U	4.27		U	10.5
PCB-96	Penta			U	3.58		U	7.76
PCB-97	Penta			U	8.33		U	12.4
PCB-98	Penta			UC	20		UC	20
PCB-99	Penta			U	6.76		U	9.27
PCB-100	Penta			U	4.16		U	9.21
PCB-101	Penta			C090			C090	
PCB-102	Penta			C098			C098	
PCB-103	Penta			U	4.18		U	9.47
PCB-104	Penta	PRC	3290		20	3780		20
PCB-105	Penta			U	4.08		U	8.88
PCB-106	Penta			UC	20		UC	20
PCB-107	Penta			UC	20		UC	20
PCB-108	Penta			C107			C107	
PCB-109	Penta			U	5.92		U	8.68
PCB-110	Penta			U	5.6		U	8.31
PCB-111	Penta			UC	20		UC	20
PCB-112	Penta			C083			C083	
PCB-113	Penta			U	6.11		U	10.1
PCB-114	Penta			U	4.5		U	8.18
PCB-115	Penta			C111			C111	
PCB-116	Penta			C085			C085	
PCB-117	Penta			C087			C087	
PCB-118	Penta			C106			C106	
PCB-119	Penta			U	5.48		U	8.48
PCB-120	Penta			U	5.32		U	8.18
PCB-121	Penta	PRC	4950		20	5220		20
PCB-122	Penta			U	4.26		U	8.19
PCB-123	Penta			U	5		U	8.52
PCB-124	Penta			U	4.17		U	8.31
PCB-125	Penta			C087			C087	
PCB-126	Penta			U	4.59		U	9.38
PCB-127	Penta			U	4.49		U	8.75
PCB-128	Hexa			UC	20		UC	20
PCB-129	Hexa			U	8.47		U	10.8
PCB-130	Hexa			U	7.63		U	11.4
PCB-131	Hexa			UC	20		UC	20
PCB-132	Hexa		12	C,J	20		UC	20
PCB-133	Hexa			C131			C131	
PCB-134	Hexa			UC	20		UC	20
PCB-135	Hexa			U	7.91		U	10.1
PCB-136	Hexa			U	7.74		U	12.1
PCB-137	Hexa			U	7.37		U	9.9
PCB-138	Hexa			UC	20		UC	20
PCB-139	Hexa			UC	20		UC	20
PCB-140	Hexa			U	6.93		U	9.18
PCB-141	Hexa			U	7.22		U	9.91
PCB-142	Hexa	PRC	939		20	928		20
PCB-143	Hexa			C134			C134	
PCB-144	Hexa			U	6.45		U	9.85
PCB-145	Hexa			U	7.42		U	11.5
PCB-146	Hexa			UC	20		UC	20
PCB-147	Hexa			U	7.12		U	9.12
PCB-148	Hexa			U	8.86		U	14.9
PCB-149	Hexa			C139			C139	
PCB-150	Hexa			U	7.1		U	11.7
PCB-151	Hexa			U	7.38		U	10.1
PCB-152	Hexa			U	7.29		U	11.8
PCB-153	Hexa		58.1		20		U	8.52
PCB-154	Hexa			U	8.02		U	13.7
PCB-155	Hexa	PRC	5600		20	5600		20
PCB-156	Hexa			U	6.06		U	7.54
PCB-157	Hexa			U	6		U	8.37
PCB-158	Hexa			UC	20		UC	20
PCB-159	Hexa			U	5.42		U	7.33
PCB-160	Hexa			C158			C158	
PCB-161	Hexa			C132			C132	
PCB-162	Hexa			C128			C128	
PCB-163	Hexa			C138			C138	
PCB-164	Hexa			C138			C138	
PCB-165	Hexa			C146			C146	
PCB-166	Hexa			U	5.53		U	7.86
PCB-167	Hexa			U	5.65		U	8.81
PCB-168	Hexa			U	5.73		U	7.63

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010			LDW-Y3-SC-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	9.06		U	7.24
PCB-170	Hepta		125		20	120		20
PCB-171	Hepta		57		20	44.8		20
PCB-172	Hepta		170		20	177		20
PCB-173	Hepta			U	11.3		U	12.3
PCB-174	Hepta		170		20	148		20
PCB-175	Hepta			U	10		U	10.9
PCB-176	Hepta		30.4		20	36		20
PCB-177	Hepta		152		20	120		20
PCB-178	Hepta		62.6		20	57.1		20
PCB-179	Hepta		115		20	110		20
PCB-180	Hepta		367		20	313		20
PCB-181	Hepta			U	10.3		U	11.2
PCB-182	Hepta		302	C	20	255	C	20
PCB-183	Hepta		127		20	136		20
PCB-184	Hepta	PRC	6450		20	6850		20
PCB-185	Hepta		29.9		20		U	10.8
PCB-186	Hepta			U	7.63		U	8.34
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	8.56		U	9.33
PCB-189	Hepta			U	6.74		U	7.38
PCB-190	Hepta		32.6		20	26.7		20
PCB-191	Hepta			U	7.36		U	8.04
PCB-192	Hepta	PRC	5090		20	5890		20
PCB-193	Hepta		21.5		20		U	8.27
PCB-194	Octa		52.7		20	41.5		20
PCB-195	Octa		22.3		20	27.4		20
PCB-196	Octa		74.1	C	20	64.4	C	20
PCB-197	Octa		78.9		20	67.9		20
PCB-198	Octa			U	16.8		U	16
PCB-199	Octa		63.2		20	60		20
PCB-200	Octa			U	12		U	11.4
PCB-201	Octa			U	12.3		U	11.7
PCB-202	Octa			U	13.1		U	12.5
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	12600		20	14800		20
PCB-205	Octa			U	6.31		U	9.81
PCB-206	Nona			U	16.9		U	12.5
PCB-207	Nona		47.4		20	55		20
PCB-208	Nona			U	9.02		U	9.41
PCB-209	Deca		79.9		20	84.4		20
Total Detected PCB Congeners			69451			68565		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CC-S010			LDW-Y3-SC-ENR+AC-CA-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	12.2		U	8.41
PCB-170	Hepta		133		20	109		20
PCB-171	Hepta		88.9		20	48.4		20
PCB-172	Hepta		187		20	207		20
PCB-173	Hepta			U	13.5		U	11.2
PCB-174	Hepta		239		20	164		20
PCB-175	Hepta			U	12.1		U	9.95
PCB-176	Hepta		38.9		20	28.5		20
PCB-177	Hepta		159		20	96.2		20
PCB-178	Hepta		82.4		20	39.8		20
PCB-179	Hepta		125		20	89.3		20
PCB-180	Hepta		327		20	263		20
PCB-181	Hepta			U	12.2		U	10.2
PCB-182	Hepta		300	C	20	198	C	20
PCB-183	Hepta		156		20	123		20
PCB-184	Hepta	PRC	5670		20	7280		20
PCB-185	Hepta			U	12.3		U	9.82
PCB-186	Hepta			U	9.19		U	7.58
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	10		U	8.19
PCB-189	Hepta			U	8.61		U	7.04
PCB-190	Hepta		45.8		20	28.2		20
PCB-191	Hepta			U	9.56		U	7.31
PCB-192	Hepta	PRC	4770		20	6600		20
PCB-193	Hepta		32.9		20	20.8		20
PCB-194	Octa		66.9		20	36.9		20
PCB-195	Octa			U	19	21.3		20
PCB-196	Octa		78.3	C	20	67.8	C	20
PCB-197	Octa		67.1		20	85.1		20
PCB-198	Octa			U	18.7		U	16.2
PCB-199	Octa		50.9		20	54.5		20
PCB-200	Octa			U	13.5		U	11.6
PCB-201	Octa			U	13.8		U	11.8
PCB-202	Octa			U	15.1		U	12.6
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	10600		20	17300		20
PCB-205	Octa			U	14.1		U	10.5
PCB-206	Nona			U	19.2		U	13
PCB-207	Nona		54.6		20	63.7		20
PCB-208	Nona			U	13.1		U	11.5
PCB-209	Deca		60.2		20	89.1		20
Total Detected PCB Congeners			66807			70920		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CB-S010-LONG			LDW-Y3-SC-ENR+AC-CC-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	9.95		U	7.35
PCB-170	Hepta		112		20	104		20
PCB-171	Hepta		46		20	52.5		20
PCB-172	Hepta		176		20	200		20
PCB-173	Hepta			U	15.9		U	10.5
PCB-174	Hepta		161		20	135		20
PCB-175	Hepta			U	14.3		U	9.43
PCB-176	Hepta		28		20	26.4		20
PCB-177	Hepta		104		20	95.6		20
PCB-178	Hepta		48.1		20	42.4		20
PCB-179	Hepta		91.5		20	85.1		20
PCB-180	Hepta		260		20	268		20
PCB-181	Hepta			U	14.3		U	9.45
PCB-182	Hepta		214	C	20	190	C	20
PCB-183	Hepta		116		20	113		20
PCB-184	Hepta	PRC	8020		20	6740		20
PCB-185	Hepta			U	14.5	23.9		20
PCB-186	Hepta			U	10.8		U	7.14
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	11.7		U	8.38
PCB-189	Hepta			U	10.3		U	6.18
PCB-190	Hepta		19	J	20	23.9		20
PCB-191	Hepta			U	11.3		U	7.43
PCB-192	Hepta	PRC	6400		20	5690		20
PCB-193	Hepta		16.6	J	20	16.9	J	20
PCB-194	Octa		37.3		20	38.8		20
PCB-195	Octa		20.7		20	15.5	J	20
PCB-196	Octa		40	C	20	56.1	C	20
PCB-197	Octa		82.7		20	71.7		20
PCB-198	Octa			U	12		U	10.1
PCB-199	Octa		40.8		20	52.2		20
PCB-200	Octa			U	8.69		U	7.33
PCB-201	Octa			U	8.9		U	7.51
PCB-202	Octa			U	9.75		U	8.23
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	14700		20	14100		20
PCB-205	Octa			U	7.85		U	6.42
PCB-206	Nona			U	6.15		U	11.1
PCB-207	Nona		62.1		20	59.5		20
PCB-208	Nona			U	4.5		U	8.2
PCB-209	Deca		73.2		20	77.9		20
Total Detected PCB Congeners			72136			70497		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP			LDW-Y3-SC-ENR-CA-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	8		U	6.2
PCB-170	Hepta		116		20	76		20
PCB-171	Hepta		53		20	37.2		20
PCB-172	Hepta		182		20	148		20
PCB-173	Hepta			U	10.3		U	10.6
PCB-174	Hepta		166		20	99.8		20
PCB-175	Hepta			U	8.89		U	9.15
PCB-176	Hepta		38.1		20		U	6.91
PCB-177	Hepta		110		20	79.7		20
PCB-178	Hepta		50.9		20	37		20
PCB-179	Hepta		99.5		20	62.9		20
PCB-180	Hepta		281		20	205		20
PCB-181	Hepta			U	9.61		U	9.89
PCB-182	Hepta		242	C	20	163	C	20
PCB-183	Hepta		118		20	76.4		20
PCB-184	Hepta	PRC	6670		20	6180		20
PCB-185	Hepta		24.8		20		U	9.3
PCB-186	Hepta			U	6.76		U	6.95
PCB-187	Hepta			C182			C182	
PCB-188	Hepta		30.4		20		U	7.71
PCB-189	Hepta			U	6.36		U	6.78
PCB-190	Hepta		27.6		20		U	7.69
PCB-191	Hepta			U	7.34		U	7.56
PCB-192	Hepta	PRC	5490		20	5250		20
PCB-193	Hepta		21.4		20		U	7.24
PCB-194	Octa		33.9		20	22.7		20
PCB-195	Octa			U	6.99		U	7.36
PCB-196	Octa		45.3	C	20	38.3	C	20
PCB-197	Octa		68.9		20	66.8		20
PCB-198	Octa			U	10.5		U	11.3
PCB-199	Octa		45.5		20	44.9		20
PCB-200	Octa			U	7.91		U	8.54
PCB-201	Octa			U	7.91		U	8.55
PCB-202	Octa			U	9		U	9.72
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	13300		20	12500		20
PCB-205	Octa			U	5.56		U	5.85
PCB-206	Nona		16.4	J	20		U	6.3
PCB-207	Nona		49.3		20	45		20
PCB-208	Nona			U	5.49		U	4.66
PCB-209	Deca		75.1		20	76.3		20
Total Detected PCB Congeners			69958			61489		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CC-S010			LDW-Y3-SC-ENR-CD-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	9.09		U	6.75
PCB-170	Hepta		118		20	78.2		20
PCB-171	Hepta		42		20	43.1		20
PCB-172	Hepta		192		20	159		20
PCB-173	Hepta			U	9.55		U	10.6
PCB-174	Hepta		178		20	125		20
PCB-175	Hepta			U	8.21		U	9.19
PCB-176	Hepta		29.7		20	26.6		20
PCB-177	Hepta		105		20	79.9		20
PCB-178	Hepta		40.3		20	36.4		20
PCB-179	Hepta		85.6		20	73.7		20
PCB-180	Hepta		306		20	220		20
PCB-181	Hepta			U	8.68		U	9.93
PCB-182	Hepta		220	C	20	181	C	20
PCB-183	Hepta		104		20	83.6		20
PCB-184	Hepta	PRC	6150		20	6780		20
PCB-185	Hepta		32		20		U	9.34
PCB-186	Hepta			U	6.43		U	6.98
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	7.16		U	8.02
PCB-189	Hepta			U	6.47		U	6.44
PCB-190	Hepta		30.4		20	22.7		20
PCB-191	Hepta			U	6.75		U	7.59
PCB-192	Hepta	PRC	5880		20	5530		20
PCB-193	Hepta		21.4		20		U	7.26
PCB-194	Octa		34.2		20	31.9		20
PCB-195	Octa		20.6		20	14.9	J	20
PCB-196	Octa		52.9	C	20	40.9	C	20
PCB-197	Octa		81.8		20	69.4		20
PCB-198	Octa			U	10		U	9.8
PCB-199	Octa		51.2		20	49.4		20
PCB-200	Octa			U	7.15		U	7.38
PCB-201	Octa			U	7.07		U	7.39
PCB-202	Octa			U	8.05		U	8.4
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	14100		20	14200		20
PCB-205	Octa			U	6.65		U	6.7
PCB-206	Nona		15.4	J	20		U	9.85
PCB-207	Nona		52.6		20	49		20
PCB-208	Nona			U	6.74		U	7.54
PCB-209	Deca		73.8		20	62.6		20
Total Detected PCB Congeners			79130			66742		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CA-S010-LONG			LDW-Y3-SC-ENR-CC-S010-LONG		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	7.71		U	7.32
PCB-170	Hepta		99.7		20	91.4		20
PCB-171	Hepta		46.7		20	45.4		20
PCB-172	Hepta		154		20	118		20
PCB-173	Hepta			U	7.83		U	8.41
PCB-174	Hepta		147		20	151		20
PCB-175	Hepta			U	6.79		U	7.3
PCB-176	Hepta		30.1		20	29.3		20
PCB-177	Hepta		100		20	83.3		20
PCB-178	Hepta		36.9		20	39.7		20
PCB-179	Hepta		86.4		20	85.9		20
PCB-180	Hepta		249		20	266		20
PCB-181	Hepta			U	7.33		U	7.88
PCB-182	Hepta		201	C	20	219	C	20
PCB-183	Hepta		98.3		20	103		20
PCB-184	Hepta	PRC	5660		20	5090		20
PCB-185	Hepta			U	6.9		U	7.42
PCB-186	Hepta			U	5.16		U	5.54
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	5.71		U	6.54
PCB-189	Hepta			U	5.05		U	4.94
PCB-190	Hepta		27.6		20	21.9		20
PCB-191	Hepta			U	5.6		U	6.02
PCB-192	Hepta	PRC	4640		20	4320		20
PCB-193	Hepta			U	5.37	16.2	J	20
PCB-194	Octa		35.9		20	37.2		20
PCB-195	Octa			U	9.55		U	4.71
PCB-196	Octa		54.6	C	20	47.8	C	20
PCB-197	Octa		53		20	61		20
PCB-198	Octa			U	12.6		U	9.63
PCB-199	Octa		48.1		20	39.2		20
PCB-200	Octa			U	9.51		U	7.25
PCB-201	Octa			U	9.52		U	7.26
PCB-202	Octa			U	10.8		U	8.25
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	11100		20	10800		20
PCB-205	Octa			U	7.59		U	3.74
PCB-206	Nona			U	6.44		U	12
PCB-207	Nona		42.4		20	41.1		20
PCB-208	Nona			U	4.55		U	7.74
PCB-209	Deca		54.5		20	60.1		20
Total Detected PCB Congeners			63042			60551		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG			LDW-Y3-SC-ENR-S010-DEP		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	8.65		U	8.46
PCB-170	Hepta		101		20	90.2		20
PCB-171	Hepta		44.4		20	39.6		20
PCB-172	Hepta		157		20	122		20
PCB-173	Hepta			U	9.42		U	10.8
PCB-174	Hepta		135		20	140		20
PCB-175	Hepta			U	8.1		U	9.31
PCB-176	Hepta		29.7		20	30.6		20
PCB-177	Hepta		93.4		20	80.6		20
PCB-178	Hepta		45.5		20	42.2		20
PCB-179	Hepta		79.6		20	78.7		20
PCB-180	Hepta		265		20	258		20
PCB-181	Hepta			U	8.56		U	9.84
PCB-182	Hepta		183	C	20	197	C	20
PCB-183	Hepta		86.2		20	99.1		20
PCB-184	Hepta	PRC	5930		20	5570		20
PCB-185	Hepta		14	J	20		U	10.3
PCB-186	Hepta			U	6.34		U	7.29
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	6.73	22.1		20
PCB-189	Hepta			U	6.72		U	7
PCB-190	Hepta		26		20	29.2		20
PCB-191	Hepta			U	6.65		U	7.65
PCB-192	Hepta	PRC	5150		20	4850		20
PCB-193	Hepta		20		20	24.6		20
PCB-194	Octa		25.7		20	37.2		20
PCB-195	Octa		16.6	J	20	16.8	J	20
PCB-196	Octa		43.7	C	20	56.1	C	20
PCB-197	Octa		63.6		20	68.2		20
PCB-198	Octa			U	10.1		U	9.43
PCB-199	Octa		42.9		20	50.9		20
PCB-200	Octa			U	7.25		U	6.74
PCB-201	Octa			U	7.18		U	6.67
PCB-202	Octa			U	8.16		U	7.58
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	11600		20	11100		20
PCB-205	Octa			U	5.36		U	8.52
PCB-206	Nona		11.5	J	20	14.9	J	20
PCB-207	Nona		40.9		20	41.6		20
PCB-208	Nona			U	3.81		U	5.17
PCB-209	Deca		62.5		20	54		20
Total Detected PCB Congeners			69959			66858		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CA-S010			LDW-Y3-SU-ENR+AC-CC-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	7.65		U	7.62
PCB-170	Hepta		128		20	115		20
PCB-171	Hepta		53.7		20	48.8		20
PCB-172	Hepta		142		20	116		20
PCB-173	Hepta			U	7.85		U	8.49
PCB-174	Hepta		208		20	171		20
PCB-175	Hepta			U	6.75		U	7.3
PCB-176	Hepta		46.1		20	26.7		20
PCB-177	Hepta		136		20	97.8		20
PCB-178	Hepta		57.9		20	44.5		20
PCB-179	Hepta		118		20	93.2		20
PCB-180	Hepta		414		20	347		20
PCB-181	Hepta			U	7.13		U	7.72
PCB-182	Hepta		274	C	20	222	C	20
PCB-183	Hepta		126		20	98.9		20
PCB-184	Hepta	PRC	4810		20	3690		20
PCB-185	Hepta		24.9		20	30.5		20
PCB-186	Hepta			U	5.28		U	5.71
PCB-187	Hepta			C182			C182	
PCB-188	Hepta		23.7		20	16.7	J	20
PCB-189	Hepta			U	5.34		U	6.09
PCB-190	Hepta		34.4		20	30.1		20
PCB-191	Hepta			U	5.54		U	6
PCB-192	Hepta	PRC	4730		20	3510		20
PCB-193	Hepta		28.4		20	19	J	20
PCB-194	Octa		45.5		20	43.9		20
PCB-195	Octa		20.5		20	24.8		20
PCB-196	Octa		61.7	C	20	55	C	20
PCB-197	Octa		63.5		20	56.5		20
PCB-198	Octa			U	8.58		U	7.38
PCB-199	Octa		68.6		20	47.1		20
PCB-200	Octa			U	6.13		U	5.27
PCB-201	Octa			U	6.06		U	5.22
PCB-202	Octa			U	6.9		U	5.94
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	11200		20	8930		20
PCB-205	Octa			U	6.27		U	6.28
PCB-206	Nona		16.5	J	20	14.4	J	20
PCB-207	Nona		44.7		20	33.6		20
PCB-208	Nona			U	5.32		U	5.63
PCB-209	Deca		69.4		20	53.6		20
Total Detected PCB Congeners			88225			68329		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CD-S010			LDW-Y3-SU-ENR+AC-CA-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	8.74		U	10.9
PCB-170	Hepta		182		20	145		20
PCB-171	Hepta		55.3		20	54.8		20
PCB-172	Hepta		147		20	181		20
PCB-173	Hepta			U	7.16		U	9.76
PCB-174	Hepta		253		20	230		20
PCB-175	Hepta			U	6.16		U	8.39
PCB-176	Hepta		48.1		20	41.8		20
PCB-177	Hepta		151		20	127		20
PCB-178	Hepta		69		20	59.3		20
PCB-179	Hepta		142		20	118		20
PCB-180	Hepta		491		20	427		20
PCB-181	Hepta			U	6.51		U	8.87
PCB-182	Hepta		331	C	20	289	C	20
PCB-183	Hepta		154		20	120		20
PCB-184	Hepta	PRC	4570		20	6730		20
PCB-185	Hepta		38.8		20	36.7		20
PCB-186	Hepta			U	4.82		U	6.57
PCB-187	Hepta			C182			C182	
PCB-188	Hepta		19.9	J	20		U	7.27
PCB-189	Hepta			U	4.71		U	6.65
PCB-190	Hepta		38.1		20	34		20
PCB-191	Hepta			U	5.06		U	6.9
PCB-192	Hepta	PRC	4380		20	6210		20
PCB-193	Hepta		39.6		20	29.3		20
PCB-194	Octa		60.8		20	45		20
PCB-195	Octa		26.7		20	20.4		20
PCB-196	Octa		90.1	C	20	68.4	C	20
PCB-197	Octa		62.8		20	69.7		20
PCB-198	Octa			U	8.94		U	10.4
PCB-199	Octa		78.6		20	59.1		20
PCB-200	Octa			U	6.39		U	7.46
PCB-201	Octa			U	6.32		U	7.39
PCB-202	Octa		26.5		20		U	8.4
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	10700		20	13900		20
PCB-205	Octa			U	7.16		U	6.85
PCB-206	Nona		18.7	J	20		U	11.9
PCB-207	Nona		41		20	51.2		20
PCB-208	Nona		8.09	J	20		U	8.92
PCB-209	Deca		67.2		20	79.4		20
Total Detected PCB Congeners			85413			86574		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO			LDW-Y3-SU-ENR+AC-CC-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	7.05		U	7.02
PCB-170	Hepta		105		20	119		20
PCB-171	Hepta		47.5		20	48.6		20
PCB-172	Hepta		169		20	153		20
PCB-173	Hepta			U	8.47		U	7.55
PCB-174	Hepta		167		20	196		20
PCB-175	Hepta			U	7.29		U	6.49
PCB-176	Hepta		30.5		20	35.7		20
PCB-177	Hepta		107		20	114		20
PCB-178	Hepta		45.3		20	50.2		20
PCB-179	Hepta		97.4		20	113		20
PCB-180	Hepta		364		20	361		20
PCB-181	Hepta			U	7.7		U	6.87
PCB-182	Hepta		235	C	20	265	C	20
PCB-183	Hepta		106		20	106		20
PCB-184	Hepta	PRC	6780		20	6270		20
PCB-185	Hepta		25.9		20	35.3		20
PCB-186	Hepta			U	5.71		U	5.09
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	6.47	12.4	J	20
PCB-189	Hepta			U	5.59		U	4.89
PCB-190	Hepta		20		20	23.7		20
PCB-191	Hepta			U	5.99		U	5.34
PCB-192	Hepta	PRC	5850		20	5640		20
PCB-193	Hepta		22.1		20	17.3	J	20
PCB-194	Octa		41.7		20	43.7		20
PCB-195	Octa		21.5		20	21		20
PCB-196	Octa		63.4	C	20	66.6	C	20
PCB-197	Octa		67.5		20	67.8		20
PCB-198	Octa			U	8.19		U	8.09
PCB-199	Octa		64		20	68.3		20
PCB-200	Octa			U	5.85		U	5.78
PCB-201	Octa			U	5.79		U	5.72
PCB-202	Octa			U	6.59		U	6.51
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	13100		20	13000		20
PCB-205	Octa			U	5.38		U	5.62
PCB-206	Nona		15.3	J	20	14.8	J	20
PCB-207	Nona		50.2		20	49.6		20
PCB-208	Nona			U	5.22	8.58	J	20
PCB-209	Deca		71.3		20	69.1		20
Total Detected PCB Congeners			76213			82871		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CA-S010			LDW-Y3-SU-ENR-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	6.8		U	7.3
PCB-170	Hepta		340		20	128		20
PCB-171	Hepta		125		20	42.3		20
PCB-172	Hepta		187		20	140		20
PCB-173	Hepta			U	9.3		U	6.71
PCB-174	Hepta		468		20	197		20
PCB-175	Hepta		25.8		20		U	6.03
PCB-176	Hepta		85.2		20	32.5		20
PCB-177	Hepta		304		20	125		20
PCB-178	Hepta		113		20	55.5		20
PCB-179	Hepta		254		20	116		20
PCB-180	Hepta		940		20	359		20
PCB-181	Hepta			U	8.37		U	6.04
PCB-182	Hepta		646	C	20	284	C	20
PCB-183	Hepta		296		20	130		20
PCB-184	Hepta	PRC	4230		20	4460		20
PCB-185	Hepta		64.3		20	25.7		20
PCB-186	Hepta			U	6.32		U	4.56
PCB-187	Hepta			C182			C182	
PCB-188	Hepta		24.3		20	20.1		20
PCB-189	Hepta			U	5.6		U	4.37
PCB-190	Hepta		67		20	27.1		20
PCB-191	Hepta		20.4		20		U	4.75
PCB-192	Hepta	PRC	3540		20	3780		20
PCB-193	Hepta		57		20	20.7		20
PCB-194	Octa		143		20	44.2		20
PCB-195	Octa		72.3		20	26.1		20
PCB-196	Octa		194	C	20	58.1	C	20
PCB-197	Octa		49.8		20	48.5		20
PCB-198	Octa			U	9.05		U	6.46
PCB-199	Octa		177		20	48.5		20
PCB-200	Octa			U	6.55		U	4.67
PCB-201	Octa		25.8		20	8940		20
PCB-202	Octa		48.8		20		U	5.24
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	9340		20	8950		20
PCB-205	Octa			U	7.94		U	8.34
PCB-206	Nona		57.7		20	14.8	J	20
PCB-207	Nona		48.2		20	36.2		20
PCB-208	Nona		16	J	20		U	3.49
PCB-209	Deca		63		20	52		20
Total Detected PCB Congeners			84470			79189		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CC-S010			LDW-Y3-SU-ENR-CA-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	7.43		U	9.05
PCB-170	Hepta		132		20	128		20
PCB-171	Hepta		54.7		20	57.1		20
PCB-172	Hepta		133		20	158		20
PCB-173	Hepta			U	8.14		U	8.22
PCB-174	Hepta		200		20	212		20
PCB-175	Hepta			U	7.31		U	7.38
PCB-176	Hepta		40.3		20	39.3		20
PCB-177	Hepta		127		20	127		20
PCB-178	Hepta		60.1		20	56.4		20
PCB-179	Hepta		122		20	119		20
PCB-180	Hepta		356		20	390		20
PCB-181	Hepta			U	7.32		U	7.4
PCB-182	Hepta		265	C	20	297	C	20
PCB-183	Hepta		134		20	127		20
PCB-184	Hepta	PRC	4180		20	5270		20
PCB-185	Hepta		26.2		20	29		20
PCB-186	Hepta			U	5.53		U	5.59
PCB-187	Hepta			C182			C182	
PCB-188	Hepta		22.1		20		U	6.28
PCB-189	Hepta			U	5.29		U	5.09
PCB-190	Hepta		33.7		20	27.5		20
PCB-191	Hepta			U	5.76		U	5.81
PCB-192	Hepta	PRC	3720		20	4470		20
PCB-193	Hepta		23.1		20	22.5		20
PCB-194	Octa		48.6		20	48.1		20
PCB-195	Octa		24.6		20	23.3		20
PCB-196	Octa		59.9	C	20	71.7	C	20
PCB-197	Octa		52.2		20	66.8		20
PCB-198	Octa			U	6.94		U	7.44
PCB-199	Octa		66		20	57.9		20
PCB-200	Octa			U	5.02		U	5.38
PCB-201	Octa			U	5.14		U	5.51
PCB-202	Octa			U	5.63		U	6.04
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	10600		20	11400		20
PCB-205	Octa			U	8.37		U	9.52
PCB-206	Nona		15	J	20	14.2	J	20
PCB-207	Nona		35.7		20	44.5		20
PCB-208	Nona			U	5.41	11.1	J	20
PCB-209	Deca		54.8		20	61.2		20
Total Detected PCB Congeners			79841			73171		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO			LDW-Y3-SU-ENR-CC-S010-BIO		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	7.52		U	7.64
PCB-170	Hepta		154		20	86.9		20
PCB-171	Hepta		65.1		20	38.6		20
PCB-172	Hepta		172		20	149		20
PCB-173	Hepta			U	9.75		U	5.74
PCB-174	Hepta		244		20	137		20
PCB-175	Hepta			U	8.76		U	5.16
PCB-176	Hepta		55.6		20	26.2		20
PCB-177	Hepta		144		20	90.3		20
PCB-178	Hepta		69.2		20	38.9		20
PCB-179	Hepta		167		20	78.1		20
PCB-180	Hepta		444		20	251		20
PCB-181	Hepta			U	8.78		U	5.16
PCB-182	Hepta		321	C	20	192	C	20
PCB-183	Hepta		158		20	105		20
PCB-184	Hepta	PRC	6830		20	6130		20
PCB-185	Hepta		36		20	21.4		20
PCB-186	Hepta			U	6.63		U	3.9
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	7.78	17.1	J	20
PCB-189	Hepta			U	5.67		U	3.96
PCB-190	Hepta		38.8		20	24.7		20
PCB-191	Hepta			U	6.9		U	4.06
PCB-192	Hepta	PRC	5290		20	4630		20
PCB-193	Hepta		28.6		20	20.1		20
PCB-194	Octa		55.3		20	32.7		20
PCB-195	Octa		26.5		20	16.9	J	20
PCB-196	Octa		79.2	C	20	47.5	C	20
PCB-197	Octa		76.1		20	64.8		20
PCB-198	Octa			U	8.96		U	7.55
PCB-199	Octa		70.7		20	45		20
PCB-200	Octa			U	6.48		U	5.46
PCB-201	Octa			U	6.64		U	5.59
PCB-202	Octa		22.9		20		U	6.12
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	13900		20	11900		20
PCB-205	Octa			U	9.35		U	18.9
PCB-206	Nona		16.9	J	20		U	7.09
PCB-207	Nona		51.1		20	42.8		20
PCB-208	Nona			U	4.5		U	4.93
PCB-209	Deca		65.9		20	62.9		20
Total Detected PCB Congeners			129133			72745		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-LCB			LDW-Y3-LBS-WAT-S010-SPME		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	5.26		U	6.41
PCB-170	Hepta			U	6.8		U	9.05
PCB-171	Hepta			U	6.64		U	8.52
PCB-172	Hepta			U	6.94	120		20
PCB-173	Hepta			U	7.18		U	9.35
PCB-174	Hepta			U	6.66		U	7.95
PCB-175	Hepta			U	6.45		U	8.13
PCB-176	Hepta			U	5.01		U	6.21
PCB-177	Hepta			U	7.05		U	9.02
PCB-178	Hepta			U	6.78		U	8.56
PCB-179	Hepta			U	4.81		U	6.2
PCB-180	Hepta			U	6.82		U	8.53
PCB-181	Hepta			U	6.46		U	8.45
PCB-182	Hepta			UC	20		UC	20
PCB-183	Hepta			U	6.12		U	7.74
PCB-184	Hepta	PRC	4570		20	4280		20
PCB-185	Hepta			U	6.55		U	8.4
PCB-186	Hepta			U	4.88		U	6.27
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	4.8		U	6.93
PCB-189	Hepta			U	5.19		U	6.2
PCB-190	Hepta			U	5.09		U	6.77
PCB-191	Hepta			U	5.07		U	6.53
PCB-192	Hepta	PRC	3830		20	3660		20
PCB-193	Hepta			U	4.91		U	6.43
PCB-194	Octa			U	8.36		U	10.7
PCB-195	Octa			U	9.46		U	11.4
PCB-196	Octa			UC	20		UC	20
PCB-197	Octa		61.8		20	56.9		20
PCB-198	Octa			U	7.94		U	13.4
PCB-199	Octa			U	7.73		U	11.7
PCB-200	Octa			U	5.74		U	8.97
PCB-201	Octa			U	5.88		U	8.64
PCB-202	Octa			U	6.44		U	9.89
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	10800		20	9640		20
PCB-205	Octa			U	7.02		U	8.86
PCB-206	Nona			U	3.86		U	6.91
PCB-207	Nona		37.1		20	31.2		20
PCB-208	Nona			U	2.55		U	5.19
PCB-209	Deca		46		20	53.9		20
Total Detected PCB Congeners			33934			33675		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CA-S010			LDW-Y3-IN-ENR+AC-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	5.45		U	4.55
PCB-170	Hepta		38.9		20	49.1		20
PCB-171	Hepta		20.8		20	27.2		20
PCB-172	Hepta		137		20	126		20
PCB-173	Hepta			U	10.4		U	8.78
PCB-174	Hepta		62.2		20	70.5		20
PCB-175	Hepta			U	9.22		U	7.8
PCB-176	Hepta		15.5	J	20		U	5.75
PCB-177	Hepta		47		20	53.9		20
PCB-178	Hepta		25		20	22.7		20
PCB-179	Hepta		34.7		20	44.7		20
PCB-180	Hepta		122		20	129		20
PCB-181	Hepta			U	9.44		U	7.98
PCB-182	Hepta		96.3	C	20	108	C	20
PCB-183	Hepta		46.4		20	66.5		20
PCB-184	Hepta	PRC	5130		20	5550		20
PCB-185	Hepta			U	9.1		U	7.7
PCB-186	Hepta			U	7.02		U	5.94
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	7.45		U	6.81
PCB-189	Hepta			U	6.68		U	5.07
PCB-190	Hepta			U	7.24		U	6.13
PCB-191	Hepta			U	6.77		U	5.73
PCB-192	Hepta	PRC	4040		20	4260		20
PCB-193	Hepta			U	6.96		U	5.89
PCB-194	Octa		22		20	16.3	J	20
PCB-195	Octa			U	7.49		U	9.61
PCB-196	Octa			UC	20	28.5	C	20
PCB-197	Octa		57.6		20	60.8		20
PCB-198	Octa			U	9.88		U	12.3
PCB-199	Octa			U	9.38		U	11.7
PCB-200	Octa			U	7.05		U	8.77
PCB-201	Octa			U	7.21		U	8.97
PCB-202	Octa			U	7.71		U	9.59
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	10000		20	10600		20
PCB-205	Octa			U	5.69		U	7.3
PCB-206	Nona			U	9.52		U	9.01
PCB-207	Nona		37.6		20	42.2		20
PCB-208	Nona			U	7.94		U	6.99
PCB-209	Deca		55.2		20	60		20
Total Detected PCB Congeners			43637			47187		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010			LDW-Y3-IN-ENR-CB-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	4.81		U	6.15
PCB-170	Hepta		37.1		20	33.3		20
PCB-171	Hepta		17.7	J	20	18.3	J	20
PCB-172	Hepta		149		20	127		20
PCB-173	Hepta			U	8.63		U	8.79
PCB-174	Hepta		37		20	57.2		20
PCB-175	Hepta			U	7.66		U	7.8
PCB-176	Hepta			U	5.65	13.4	J	20
PCB-177	Hepta		37.6		20	45.3		20
PCB-178	Hepta		17.9	J	20	21.9		20
PCB-179	Hepta		28.8		20	45		20
PCB-180	Hepta		98.4		20	112		20
PCB-181	Hepta			U	7.84		U	7.99
PCB-182	Hepta		82.7	C	20	90.1	C	20
PCB-183	Hepta		38.2		20	53.9		20
PCB-184	Hepta	PRC	4560		20	5030		20
PCB-185	Hepta			U	7.56		U	7.7
PCB-186	Hepta			U	5.84		U	5.95
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	7.2		U	6.68
PCB-189	Hepta			U	4.57		U	5.25
PCB-190	Hepta			U	6.02	14.3	J	20
PCB-191	Hepta			U	5.63		U	5.73
PCB-192	Hepta	PRC	4450		20	4310		20
PCB-193	Hepta			U	5.79		U	5.89
PCB-194	Octa		17.2	J	20	18.6	J	20
PCB-195	Octa			U	6.58		U	6.97
PCB-196	Octa		19.9	C,J	20	22	C	20
PCB-197	Octa		54.3		20	54.1		20
PCB-198	Octa			U	9.88		U	9.99
PCB-199	Octa		17.8	J	20		U	9.49
PCB-200	Octa			U	7.05		U	7.13
PCB-201	Octa			U	7.21		U	7.29
PCB-202	Octa			U	7.71		U	7.8
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	10900		20	11700		20
PCB-205	Octa			U	4.99		U	5.29
PCB-206	Nona			U	7.39		U	7.6
PCB-207	Nona		42.4		20	36.4		20
PCB-208	Nona			U	5.72		U	5.16
PCB-209	Deca		65.9		20	58.5		20
Total Detected PCB Congeners			41899			48424		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CC-S010			LDW-Y3-IN-ENR-CD-S010		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	9.51		U	6.63
PCB-170	Hepta		44.3		20	47.4		20
PCB-171	Hepta			U	15.9	25.3		20
PCB-172	Hepta		129		20	163		20
PCB-173	Hepta			U	17.6		U	13
PCB-174	Hepta		69.8		20	69.9		20
PCB-175	Hepta			U	15.7		U	11.6
PCB-176	Hepta			U	11.5		U	8.52
PCB-177	Hepta		56.9		20	56.2		20
PCB-178	Hepta			U	16.2		U	12
PCB-179	Hepta		56.2		20	51.4		20
PCB-180	Hepta		122		20	129		20
PCB-181	Hepta			U	16		U	11.8
PCB-182	Hepta		120	C	20	101	C	20
PCB-183	Hepta		73.8		20	53.1		20
PCB-184	Hepta	PRC	4980		20	6590		20
PCB-185	Hepta			U	15.5		U	11.4
PCB-186	Hepta			U	11.9		U	8.81
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	12.8		U	8.98
PCB-189	Hepta			U	11.2		U	8.77
PCB-190	Hepta			U	12.3		U	9.08
PCB-191	Hepta			U	11.5		U	8.49
PCB-192	Hepta	PRC	3890		20	5560		20
PCB-193	Hepta			U	11.8		U	8.73
PCB-194	Octa			U	16	33.7		20
PCB-195	Octa			U	17.6		U	15.5
PCB-196	Octa			UC	20	28.3	C	20
PCB-197	Octa		60.4		20	71.3		20
PCB-198	Octa			U	17.9		U	16.9
PCB-199	Octa			U	17		U	16
PCB-200	Octa			U	12.7		U	12.1
PCB-201	Octa			U	13		U	12.3
PCB-202	Octa			U	13.9		U	13.2
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	9370		20	13000		20
PCB-205	Octa			U	13.4		U	11.8
PCB-206	Nona			U	15.3		U	14.3
PCB-207	Nona		46.1		20	53.7		20
PCB-208	Nona			U	9.84		U	11.8
PCB-209	Deca		66.3		20	65.4		20
Total Detected PCB Congeners			45902			58440		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-EXTRA-S010-TB			LDW-Y3-SC-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	4.91		U	7.95
PCB-170	Hepta			U	6.67		U	10.6
PCB-171	Hepta			U	6.5		U	9.54
PCB-172	Hepta		121		20	136		20
PCB-173	Hepta			U	7.22		U	10.9
PCB-174	Hepta			U	6.38		U	9.75
PCB-175	Hepta			U	6.41		U	9.37
PCB-176	Hepta			U	4.72		U	6.89
PCB-177	Hepta			U	7.09		U	10.1
PCB-178	Hepta			U	6.64		U	9.7
PCB-179	Hepta			U	4.67		U	6.66
PCB-180	Hepta			U	6.67		U	10.7
PCB-181	Hepta			U	6.56		U	9.9
PCB-182	Hepta			UC	20		UC	20
PCB-183	Hepta			U	6		U	8.54
PCB-184	Hepta	PRC	5530		20	4780		20
PCB-185	Hepta			U	6.32		U	10.4
PCB-186	Hepta			U	4.88		U	7.33
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	5.71		U	8.22
PCB-189	Hepta			U	4.09		U	7.32
PCB-190	Hepta			U	5.03		U	7.84
PCB-191	Hepta			U	4.71		U	7.7
PCB-192	Hepta	PRC	4750		20	4560		20
PCB-193	Hepta			U	4.84		U	7.68
PCB-194	Octa			U	8.01		U	9.8
PCB-195	Octa			U	8.82		U	10.8
PCB-196	Octa			UC	20		UC	20
PCB-197	Octa		54.2		20	56.3		20
PCB-198	Octa			U	9.36		U	9.76
PCB-199	Octa			U	8.88		U	10.3
PCB-200	Octa			U	6.68		U	6.97
PCB-201	Octa			U	6.83		U	6.9
PCB-202	Octa			U	7.3		U	7.85
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	11200		20	10300		20
PCB-205	Octa			U	6.7		U	8.58
PCB-206	Nona			U	9.27		U	5.76
PCB-207	Nona		45.6		20	43.4		20
PCB-208	Nona			U	6.54		U	5.32
PCB-209	Deca		56.5		20	54.7		20
Total Detected PCB Congeners			42737			38040		

Table A3. Mass of PCB Congeners in Extracts.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-TB			LDW-Y3-IN-S010-TB		
			PCB Mass Result	Qualifier	PCB Mass DL	PCB Mass Result	Qualifier	PCB Mass DL
			(pg)		(pg)	(pg)		(pg)
PCB-169	Hexa			U	5.29		U	7.72
PCB-170	Hepta			U	5.16		U	12.5
PCB-171	Hepta			U	4.86		U	11.6
PCB-172	Hepta		123		20	143		20
PCB-173	Hepta			U	5.34		U	12.3
PCB-174	Hepta			U	4.54		U	12.4
PCB-175	Hepta			U	4.64		U	11.3
PCB-176	Hepta			U	3.54		U	8.77
PCB-177	Hepta			U	5.14		U	12.2
PCB-178	Hepta			U	4.89		U	12
PCB-179	Hepta			U	3.54		U	8.33
PCB-180	Hepta			U	4.87		U	11.7
PCB-181	Hepta			U	4.82		U	10.4
PCB-182	Hepta			UC	20		UC	20
PCB-183	Hepta			U	4.42		U	10.6
PCB-184	Hepta	PRC	5850		20	6080		20
PCB-185	Hepta			U	4.79		U	11.6
PCB-186	Hepta			U	3.58		U	8.59
PCB-187	Hepta			C182			C182	
PCB-188	Hepta			U	4.25		U	9.81
PCB-189	Hepta			U	3.23		U	7.97
PCB-190	Hepta			U	3.87		U	9.1
PCB-191	Hepta			U	3.73		U	8.87
PCB-192	Hepta	PRC	4800		20	5000		20
PCB-193	Hepta			U	3.67		U	8.61
PCB-194	Octa			U	5.8		U	12.9
PCB-195	Octa			U	6.16		U	13.2
PCB-196	Octa			UC	20		UC	20
PCB-197	Octa		73.1		20	61		20
PCB-198	Octa			U	8.53		U	14.8
PCB-199	Octa			U	7.44		U	14.5
PCB-200	Octa			U	5.72		U	10.7
PCB-201	Octa			U	5.52		U	10.7
PCB-202	Octa			U	6.31		U	11.5
PCB-203	Octa			C196			C196	
PCB-204	Octa	PRC	12700		20	12300		20
PCB-205	Octa			U	4.79		U	10.4
PCB-206	Nona			U	4.79		U	13.2
PCB-207	Nona		43.4		20	43.1		20
PCB-208	Nona			U	3.54		U	8.88
PCB-209	Deca		62.3		20	63.6		20
Total Detected PCB Congeners			46339			48492		

Notes

C: Coelution with one or more PCB congeners; the numerical value indicates the lower congener co-eluter. For example, PCB-20 co-elutes with PCB-21 and PCB-33.

J: Analyte concentration is below calibration range

PCB: Polychlorinated biphenyl

pg: picogram

PRC: Performance Reference Compound

U: Not detected at the Method Detection Limit (DL) shown in the second column for each sample.

TABLE A4

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y3-SC-ENR+AC-CA-S010		LDW-Y3-SC-ENR+AC-CB-S010		LDW-Y3-SC-ENR+AC-CC-S010		LDW-Y3-SC-ENR+AC-CA-S010-LONG		LDW-Y3-SC-ENR+AC-CB-S010-LONG		LDW-Y3-SC-ENR+AC-CC-S010-LONG		LDW-Y3-SC-ENR+AC-S010-DEP	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.025706	72%	0.023941	68%	0.026701	72%	0.017746	58%	0.025245	70%	0.021551	64%	0.017151	54%
PCB-36	Tri	0.010892	41%	0.009904	38%	0.013138	47%	0.006546	27%	0.007907	31%	0.008564	34%	0.006338	25%
PCB-78	Tetra	0.005421	23%	0.005763	24%	0.007911	31%	0.000588	3%	OUTLIER		0.003904	17%	0.001363	6%
PCB-104	Penta	0.000888	4%	0.001982	9%	0.005339	22%	0.001492	7%	OUTLIER		0.000355	2%	OUTLIER	
PCB-121	Penta	OUTLIER		0.001646	8%	0.003696	16%	OUTLIER		OUTLIER		OUTLIER		OUTLIER	
PCB-142	Hexa	OUTLIER		0.000583	3%	0.002523	11%	OUTLIER		OUTLIER		OUTLIER		0.000625	3%
PCB-155	Hexa	0.001653	8%	0.001406	6%	0.004007	17%	OUTLIER		OUTLIER		OUTLIER		OUTLIER	
PCB-184	Hepta	OUTLIER		OUTLIER		0.001698	8%	OUTLIER		OUTLIER		OUTLIER		OUTLIER	
PCB-192	Hepta	0.000246	1%	OUTLIER		0.001482	7%	OUTLIER		OUTLIER		OUTLIER		OUTLIER	
PCB-204	Octa	0.000333	2%	OUTLIER		0.003836	17%	OUTLIER		OUTLIER		OUTLIER		OUTLIER	
PRC Model	p-value	0.0030		0.0014		0.0021		0.0690		0.0000		0.1126		0.0134	
	r ²	0.85		0.89		0.71		0.87		1.00		0.76		0.97	
	Slope	-0.86		-1.06		-0.46		-1.46		-1.23		-1.58		-1.12	
	Y-intercept	2.82		3.97		0.64		5.98		4.90		6.81		4.14	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y3-SC-ENR-CA-S010		LDW-Y3-SC-ENR-CC-S010		LDW-Y3-SC-ENR-CD-S010		LDW-Y3-SC-ENR-CA-S010-LONG		LDW-Y3-SC-ENR-CC-S010-LONG		LDW-Y3-SC-ENR-CD-S010-LONG		LDW-Y3-SC-ENR-S010-DEP	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.015250	51%	0.019651	60%	0.021801	64%	0.027974	73%	0.029677	75%	0.029614	75%	0.023569	65%
PCB-36	Tri	0.007963	31%	0.011006	40%	0.011688	42%	0.015320	51%	0.018601	58%	0.013043	46%	0.011667	41%
PCB-78	Tetra	0.005368	22%	0.006441	26%	0.007811	31%	0.007023	28%	0.010297	38%	0.007454	30%	0.007005	27%
PCB-104	Penta	0.002131	9%	0.004768	20%	0.004882	21%	0.005552	23%	0.008127	31%	0.003163	14%	0.000678	3%
PCB-121	Penta	0.001905	9%	OUTLIER		0.003053	13%	0.004411	19%	0.006546	26%	0.000598	3%	OUTLIER	
PCB-142	Hexa	0.003888	17%	0.005345	22%	0.003044	13%	0.004001	17%	0.007340	29%	0.005571	23%	0.005050	20%
PCB-155	Hexa	0.001356	6%	0.000628	3%	0.000802	4%	0.002150	10%	0.004414	18%	OUTLIER		0.000601	3%
PCB-184	Hepta	0.000134	1%	0.000262	1%	OUTLIER		0.001948	9%	0.004227	18%	0.000866	4%	0.002304	10%
PCB-192	Hepta	OUTLIER		OUTLIER		OUTLIER		0.002282	10%	0.003814	16%	OUTLIER		0.001310	6%
PCB-204	Octa	0.000630	3%	OUTLIER		OUTLIER		0.003106	13%	0.003694	16%	0.002062	9%	0.003149	13%
PRC Model	p-value	0.0030		0.0050		0.0025		0.0006		0.0000		0.0578		0.0993	
	r ²	0.74		0.82		0.86		0.79		0.89		0.48		0.34	
	Slope	-0.74		-0.96		-0.87		-0.47		-0.40		-0.52		-0.42	
	Y-intercept	2.06		3.53		3.01		0.73		0.46		0.93		0.23	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y3-SU-ENR+AC-CA-S010		LDW-Y3-SU-ENR+AC-CC-S010		LDW-Y3-SU-ENR+AC-CD-S010		LDW-Y3-SU-ENR+AC-CA-S010-BIO		LDW-Y3-SU-ENR+AC-CB-S010-BIO		LDW-Y3-SU-ENR+AC-CC-S010-BIO		LDW-Y3-SU-ENR-CA-S010	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.020790	73%	0.025699	80%	0.024294	78%	0.023099	48%	0.030966	58%	0.037627	65%	0.022123	75%
PCB-36	Tri	0.013266	57%	0.016406	64%	0.013831	58%	0.005633	15%	0.008924	22%	0.013348	31%	0.013923	58%
PCB-78	Tetra	0.009977	47%	0.013893	58%	0.011460	51%	0.001667	5%	0.004512	12%	0.007129	18%	0.014385	60%
PCB-104	Penta	0.008703	42%	0.012632	55%	0.009515	45%	OUTLIER		OUTLIER		OUTLIER		0.009722	46%
PCB-121	Penta	0.002895	17%	0.006906	35%	0.003964	22%	OUTLIER		OUTLIER		OUTLIER		0.006991	36%
PCB-142	Hexa	0.008120	40%	0.011683	52%	0.008895	43%	0.001724	5%	0.001338	4%	0.003966	11%	0.008331	41%
PCB-155	Hexa	0.005374	29%	0.009201	44%	0.006090	32%	OUTLIER		OUTLIER		OUTLIER		0.007204	36%
PCB-184	Hepta	0.004069	23%	0.008041	40%	0.004831	26%	OUTLIER		OUTLIER		OUTLIER		0.006104	32%
PCB-192	Hepta	0.001428	9%	0.005928	31%	0.002598	15%	OUTLIER		OUTLIER		OUTLIER		0.006024	32%
PCB-204	Octa	0.002201	13%	0.005561	30%	0.002876	17%	OUTLIER		OUTLIER		OUTLIER		0.005079	27%
PRC Model	p-value	0.0020		0.0005		0.0007		0.0854		0.0053		0.0176		0.0001	
	r ²	0.72		0.80		0.78		0.84		0.99		0.97		0.86	
	Slope	-0.43		-0.26		-0.39		-0.87		-1.00		-0.72		-0.26	
	Y-intercept	0.56		-0.29		0.34		2.78		3.71		2.31		-0.34	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y3-SU-ENR-CB-S010		LDW-Y3-SU-ENR-CC-S010		LDW-Y3-SU-ENR-CA-S010-BIO		LDW-Y3-SU-ENR-CB-S010-BIO		LDW-Y3-SU-ENR-CC-S010-BIO		LDW-Y3-SU-S010-LCB		LDW-Y3-LBS-WAT-S010-SPME	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.020577	73%	0.020134	72%	0.029915	57%	0.019646	42%	0.031316	58%	0.020448	72%	0.033866	61%
PCB-36	Tri	0.012538	55%	0.012614	55%	0.013856	32%	0.004001	11%	0.007312	19%	0.011230	51%	0.018278	40%
PCB-78	Tetra	0.011841	53%	0.012267	54%	0.008486	21%	0.003755	10%	0.009635	24%	0.009242	44%	0.014419	33%
PCB-104	Penta	0.011061	50%	0.010676	49%	0.005994	15%	OUTLIER		OUTLIER		0.007185	36%	0.013199	31%
PCB-121	Penta	0.007623	38%	0.006947	35%	0.005651	15%	OUTLIER		0.000460	1%	0.006368	33%	0.012535	30%
PCB-142	Hexa	0.007324	37%	0.007735	39%	0.004241	11%	OUTLIER		0.000515	1%	0.004583	25%	0.011188	27%
PCB-155	Hexa	0.006403	33%	0.006800	35%	0.003437	9%	OUTLIER		OUTLIER		0.004490	25%	0.011524	28%
PCB-184	Hepta	0.005154	28%	0.006151	32%	0.005859	15%	OUTLIER		0.000374	1%	0.004540	25%	0.012934	30%
PCB-192	Hepta	0.004873	26%	0.005095	27%	0.005199	14%	OUTLIER		0.003857	10%	0.004437	24%	0.011983	29%
PCB-204	Octa	0.005647	30%	0.002929	17%	0.004287	11%	OUTLIER		0.002668	7%	0.002437	14%	0.009920	24%
PRC Model	p-value	0.0001		0.0000		0.0052		0.3118		0.1441		0.0000		0.0034	
	r ²	0.87		0.91		0.64		0.78		0.32		0.92		0.68	
	Slope	-0.26		-0.31		-0.32		-0.88		-0.50		-0.35		-0.17	
	Y-intercept	-0.37		-0.06		-0.12		2.81		0.64		0.05		-0.72	

Table A4. Elimination Rates (ke) and Percentage to Steady State Reached by Performance Reference Compounds (PRCs) During Deployment, and Resulting Statistics for the PRC Regression Models.

PCB PRC	Homolog Group	LDW-Y3-IN-ENR+AC-CA-S010		LDW-Y3-IN-ENR+AC-CB-S010		LDW-Y3-IN-ENR+AC-CC-S010		LDW-Y3-IN-ENR-CB-S010		LDW-Y3-IN-ENR-CC-S010		LDW-Y3-IN-ENR-CD-S010	
		ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State	ke	Steady State
		(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%	(d ⁻¹)	%
PCB-14	Di	0.046592	87%	0.050353	89%	0.046458	87%	0.034787	78%	0.039020	82%	0.027714	70%
PCB-36	Tri	0.016945	53%	0.021062	60%	0.016764	52%	0.013933	46%	0.016731	52%	0.008987	33%
PCB-78	Tetra	0.009163	33%	0.012379	42%	0.007451	28%	0.005631	22%	0.008978	33%	0.005236	21%
PCB-104	Penta	0.003191	13%	0.005127	20%	0.005624	22%	0.001449	6%	0.002581	11%	OUTLIER	
PCB-121	Penta	0.003660	15%	0.005896	23%	0.003657	15%	0.001239	5%	0.003595	15%	OUTLIER	
PCB-142	Hexa	0.001160	5%	0.003500	14%	0.001886	8%	OUTLIER		0.000954	4%	OUTLIER	
PCB-155	Hexa	0.002166	9%	0.002857	12%	0.002746	11%	OUTLIER		0.002434	10%	OUTLIER	
PCB-184	Hepta	OUTLIER		0.002318	10%	0.002976	12%	0.000472	2%	0.000661	3%	OUTLIER	
PCB-192	Hepta	0.001255	5%	0.004168	17%	OUTLIER		OUTLIER		0.002113	9%	OUTLIER	
PCB-204	Octa	0.001354	6%	0.004147	17%	OUTLIER		OUTLIER		0.002831	12%	OUTLIER	
PRC Model	p-value	0.0011		0.0021		0.0020		0.0058		0.0067		0.1275	
	r ²	0.80		0.71		0.82		0.88		0.62		0.96	
	Slope	-0.70		-0.50		-0.71		-1.04		-0.60		-0.88	
	Y-intercept	2.08		1.05		2.21		3.94		1.44		3.06	

Notes

‰: percent

d: day

PCB: Polychlorinated biphenyl

The PRCs noted "OUTLIER" were removed from the calculations. See text for further details.

TABLE A5

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS} (L/kg)
PCB-1	Mono	4.23
PCB-2	Mono	4.87
PCB-3	Mono	4.87
PCB-4	Di	4.64
PCB-5	Di	4.96
PCB-6	Di	4.96
PCB-7	Di	4.96
PCB-8	Di	4.96
PCB-9	Di	4.96
PCB-10	Di	4.64
PCB-11	Di	5.28
PCB-12	Di	5.28
PCB-13	Di	5.28
PCB-14	Di	5.28
PCB-15	Di	5.28
PCB-16	Tri	5.27
PCB-17	Tri	5.27
PCB-18	Tri	5.27
PCB-19	Tri	5.05
PCB-20	Tri	5.48
PCB-21	Tri	C020
PCB-22	Tri	5.48
PCB-23	Tri	5.48
PCB-24	Tri	5.27
PCB-25	Tri	5.48
PCB-26	Tri	5.48
PCB-27	Tri	5.27
PCB-28	Tri	5.48
PCB-29	Tri	5.48
PCB-30	Tri	5.27
PCB-31	Tri	5.48
PCB-32	Tri	5.27
PCB-33	Tri	C020
PCB-34	Tri	5.48
PCB-35	Tri	5.69
PCB-36	Tri	5.69
PCB-37	Tri	5.69
PCB-38	Tri	5.69
PCB-39	Tri	5.69
PCB-40	Tetra	5.78
PCB-41	Tetra	5.82
PCB-42	Tetra	5.78
PCB-43	Tetra	5.78
PCB-44	Tetra	5.78
PCB-45	Tetra	5.62
PCB-46	Tetra	5.62
PCB-47	Tetra	5.78
PCB-48	Tetra	5.78
PCB-49	Tetra	C043
PCB-50	Tetra	5.62
PCB-51	Tetra	5.62
PCB-52	Tetra	5.78
PCB-53	Tetra	5.62
PCB-54	Tetra	5.66
PCB-55	Tetra	5.94
PCB-56	Tetra	5.94
PCB-57	Tetra	5.94
PCB-58	Tetra	5.94
PCB-59	Tetra	C042
PCB-60	Tetra	C056
PCB-61	Tetra	5.94
PCB-62	Tetra	5.78
PCB-63	Tetra	5.94
PCB-64	Tetra	C041
PCB-65	Tetra	5.78

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS} (L/kg)
PCB-66	Tetra	5.94
PCB-67	Tetra	5.94
PCB-68	Tetra	5.94
PCB-69	Tetra	C052
PCB-70	Tetra	C061
PCB-71	Tetra	C041
PCB-72	Tetra	C041
PCB-73	Tetra	5.78
PCB-74	Tetra	5.94
PCB-75	Tetra	C048
PCB-76	Tetra	C066
PCB-77	Tetra	6.1
PCB-78	Tetra	6.1
PCB-79	Tetra	6.1
PCB-80	Tetra	6.1
PCB-81	Tetra	6.1
PCB-82	Penta	6.26
PCB-83	Penta	6.26
PCB-84	Penta	6.195
PCB-85	Penta	6.26
PCB-86	Penta	6.26
PCB-87	Penta	6.26
PCB-88	Penta	6.13
PCB-89	Penta	6.13
PCB-90	Penta	6.26
PCB-91	Penta	C088
PCB-92	Penta	C084
PCB-93	Penta	6.13
PCB-94	Penta	6.13
PCB-95	Penta	6.13
PCB-96	Penta	6.2
PCB-97	Penta	6.26
PCB-98	Penta	6.13
PCB-99	Penta	6.26
PCB-100	Penta	6.13
PCB-101	Penta	C090
PCB-102	Penta	C098
PCB-103	Penta	6.13
PCB-104	Penta	6.2
PCB-105	Penta	6.39
PCB-106	Penta	6.39
PCB-107	Penta	6.39
PCB-108	Penta	C107
PCB-109	Penta	6.26
PCB-110	Penta	6.26
PCB-111	Penta	6.325
PCB-112	Penta	C083
PCB-113	Penta	6.26
PCB-114	Penta	6.39
PCB-115	Penta	C111
PCB-116	Penta	C085
PCB-117	Penta	C087
PCB-118	Penta	C106
PCB-119	Penta	6.26
PCB-120	Penta	6.39
PCB-121	Penta	6.26
PCB-122	Penta	6.39
PCB-123	Penta	6.39
PCB-124	Penta	6.39
PCB-125	Penta	C087
PCB-126	Penta	6.52
PCB-127	Penta	6.52
PCB-128	Hexa	6.765
PCB-129	Hexa	6.71
PCB-130	Hexa	6.71

Table A5. Log K_{PDMS} used in Calculation of C_{free}.

PCB	Homolog Group	Log K _{PDMS} (L/kg)
PCB-131	Hexa	6.66
PCB-132	Hexa	6.66
PCB-133	Hexa	C131
PCB-134	Hexa	6.61
PCB-135	Hexa	6.61
PCB-136	Hexa	6.7
PCB-137	Hexa	6.71
PCB-138	Hexa	6.71
PCB-139	Hexa	6.61
PCB-140	Hexa	6.61
PCB-141	Hexa	6.71
PCB-142	Hexa	6.61
PCB-143	Hexa	C134
PCB-144	Hexa	6.61
PCB-145	Hexa	6.7
PCB-146	Hexa	6.71
PCB-147	Hexa	6.61
PCB-148	Hexa	6.61
PCB-149	Hexa	C139
PCB-150	Hexa	6.7
PCB-151	Hexa	6.61
PCB-152	Hexa	6.7
PCB-153	Hexa	6.71
PCB-154	Hexa	6.61
PCB-155	Hexa	6.7
PCB-156	Hexa	6.82
PCB-157	Hexa	6.82
PCB-158	Hexa	6.71
PCB-159	Hexa	6.82
PCB-160	Hexa	C158
PCB-161	Hexa	C132
PCB-162	Hexa	C128
PCB-163	Hexa	C138
PCB-164	Hexa	C138
PCB-165	Hexa	C146
PCB-166	Hexa	6.71
PCB-167	Hexa	6.82
PCB-168	Hexa	6.71
PCB-169	Hexa	6.93
PCB-170	Hepta	7.15
PCB-171	Hepta	7.06
PCB-172	Hepta	7.15
PCB-173	Hepta	7.06
PCB-174	Hepta	7.06
PCB-175	Hepta	7.06
PCB-176	Hepta	7.17
PCB-177	Hepta	7.06
PCB-178	Hepta	7.06
PCB-179	Hepta	7.17
PCB-180	Hepta	7.15
PCB-181	Hepta	7.06
PCB-182	Hepta	7.06
PCB-183	Hepta	7.06
PCB-184	Hepta	7.17
PCB-185	Hepta	7.06
PCB-186	Hepta	7.17
PCB-187	Hepta	C182
PCB-188	Hepta	7.17
PCB-189	Hepta	7.25
PCB-190	Hepta	7.15
PCB-191	Hepta	7.15
PCB-192	Hepta	7.15
PCB-193	Hepta	7.15
PCB-194	Octa	7.59
PCB-195	Octa	7.51

Table A5. Log K_{PDMS} used in Calculation of C_{free} .

PCB	Homolog Group	Log K_{PDMS} (L/kg)
PCB-196	Octa	7.51
PCB-197	Octa	7.63
PCB-198	Octa	7.51
PCB-199	Octa	7.63
PCB-200	Octa	7.63
PCB-201	Octa	7.51
PCB-202	Octa	7.63
PCB-203	Octa	C196
PCB-204	Octa	7.63
PCB-205	Octa	7.59
PCB-206	Nona	7.94
PCB-207	Nona	8.07
PCB-208	Nona	8.07
PCB-209	Deca	8.51

Notes

kg: kilogram

L: liter

PCB: Polychlorinated biphenyl

Log K_{PDMS} was referenced from Smedes et al. (2009). For co-eluters, log K_{PDMS} was obtained by averaging the K_{PDMS} values for each individual congener. Log K_{PDMS} is shown as the lower congener co-eluter for the higher congener co-eluters in the coelution. For example, PCB-20 co-elutes with PCB-21 and PCB-33; therefore, the K_{PDMS} value for PCB-21 is shown as the average K_{PDMS} for PCB-21 and PCB-33, while the K_{PDMS} for PCB-33 is shown as "C021".

TABLE A6

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010				LDW-Y3-SC-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	11				U	9.9
PCB-2	Mono					U	3.1				U	2.5
PCB-3	Mono					U	3.3				U	2.7
PCB-4	Di		79	76	110		13	31	30	34		12
PCB-5	Di					U	4.4				U	3.2
PCB-6	Di		20	17	32		7.2	11	9.9	14		6.4
PCB-7	Di					U	4				U	3
PCB-8	Di		84	70	130		7.2	43	40	56		6.4
PCB-9	Di		8.2	6.9	13		7.2				U	3.1
PCB-10	Di					U	7.4				U	5.9
PCB-11	Di		0.78	0.55	1.3		4.7	2.2	1.7	3		4.1
PCB-12	Di					U	2.8				U	2
PCB-13	Di					U	2.9				U	2.1
PCB-14	Di	PRC										
PCB-15	Di		13	9.4	22		4.7	6.1	4.9	8.5		4.1
PCB-16	Tri		77	55	130		4.7	44	36	62		4.1
PCB-17	Tri		110	77	180		4.7	67	53	93		4.1
PCB-18	Tri		230	160	390		4.7	160	130	220		4.1
PCB-19	Tri		47	38	78		6.2	24	22	32		5.5
PCB-20	Tri		100	70	170	C	3.8	70	54	98	C	3.4
PCB-21	Tri					C020					C020	
PCB-22	Tri		48	32	80		3.8	36	27	50		3.4
PCB-23	Tri					U	1.9				U	1.5
PCB-24	Tri		14	10	24		4.7	8.3	6.7	12		4.1
PCB-25	Tri		17	11	28		3.8	14	10	19		3.4
PCB-26	Tri		35	23	58		3.8	27	21	38		3.4
PCB-27	Tri		11	7.6	18		4.7	7.5	6	10		4.1
PCB-28	Tri		140	94	230		3.8	94	72	130		3.4
PCB-29	Tri					U	1.9				U	1.5
PCB-30	Tri					U	3.1				U	2.1
PCB-31	Tri		120	83	210		3.8	88	67	120		3.4
PCB-32	Tri		85	61	140		4.7	46	37	64		4.1
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	2				U	1.6
PCB-35	Tri					U	1.6				U	1.4
PCB-36	Tri	PRC										
PCB-37	Tri		19	13	31		3.2	18	14	24		3.1
PCB-38	Tri					U	1.7				U	1.4
PCB-39	Tri					U	1.6				U	1.3
PCB-40	Tetra		27	18	43		3.1	20	15	26		3
PCB-41	Tetra		110	74	180	C	3	94	73	120	C	3
PCB-42	Tetra		53	35	84	C	3.1	43	33	57	C	3
PCB-43	Tetra		140	91	220	C	3.1	110	86	150	C	3
PCB-44	Tetra		140	91	220		3.1	100	80	140		3
PCB-45	Tetra		41	27	66		3.4	29	22	39		3.2
PCB-46	Tetra		17	11	28		3.4	12	9.1	16		3.2
PCB-47	Tetra		50	33	80		3.1	37	29	49		3
PCB-48	Tetra		34	23	55	C	3.1	26	20	35	C	3
PCB-49	Tetra					C043					C043	
PCB-50	Tetra					U	2	2.5	1.9	3.4	J	3.2
PCB-51	Tetra		15	9.7	24		3.4	9.7	7.4	13		3.2
PCB-52	Tetra		170	110	280	C	3.1	140	110	180	C	3
PCB-53	Tetra		40	26	65		3.4	30	23	41		3.2
PCB-54	Tetra					U	1.5				U	1.5
PCB-55	Tetra		3.6	2.4	5.5		2.8	3.3	2.6	4.3		2.9
PCB-56	Tetra		63	42	97	C	2.8	58	45	74	C	2.9
PCB-57	Tetra		1.6	1.1	2.5	J	2.8				U	1.3
PCB-58	Tetra					U	1.2				U	1.3
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		100	68	160	C	2.8	91	71	120	C	2.9
PCB-62	Tetra					U	1.5				U	1.5
PCB-63	Tetra		4.6	3	7.1		2.8	4	3.1	5.2		2.9
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	1.4				U	1.4
PCB-66	Tetra		80	53	120	C	2.8	73	57	94	C	2.9
PCB-67	Tetra		5.7	3.8	8.8		2.8	3.5	2.8	4.6		2.9
PCB-68	Tetra		2.2	1.4	3.4	J	2.8	2	1.6	2.6	J	2.9
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.9	1.9	4.6		3.1	1.6	1.3	2.2		3
PCB-74	Tetra		45	30	70		2.8	40	31	51		2.9
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		4.9	3.3	7.3	L	2.6	5.3	4.1	6.7	L	2.9
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.6	1.1	2.4	J L	2.6				U L	1.2
PCB-80	Tetra		1.4	0.95	2.1	J L	2.6	1.3	1	1.6	J L	2.9
PCB-81	Tetra		1.8	1.2	2.7	J L	2.6	3.6	2.8	4.6	L	2.9
PCB-82	Penta		9.6	6.5	14	L	2.4	12	9.5	16	L	2.9
PCB-83	Penta		5.1	3.5	7.6	C L	2.4	5.7	4.4	7.4	C L	2.9
PCB-84	Penta		53	36	79	C L	2.4	64	50	82	C L	2.9
PCB-85	Penta		13	8.9	20	C L	2.4	17	13	21	C L	2.9
PCB-86	Penta					U L	1.5				U L	2
PCB-87	Penta		30	20	44	C L	2.4	38	30	50	C L	2.9
PCB-88	Penta					U C L	1.3				U C L	1.2
PCB-89	Penta		2	1.4	3	J L	2.5	2.4	1.9	3.1	J L	2.9
PCB-90	Penta		110	74	160	C L	2.4	130	99	170	C L	2.9
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	1.3				U L	1.2
PCB-94	Penta		1.7	1.1	2.6	J L	2.5				U L	1.3
PCB-95	Penta		150	100	230	L	2.5	160	130	200	L	2.9
PCB-96	Penta		1.9	1.3	2.9	J L	2.4	2	1.6	2.6	J L	2.9
PCB-97	Penta		27	18	40	L	2.4	37	29	48	L	2.9
PCB-98	Penta					U C L	1.3				U C L	1.2
PCB-99	Penta		51	34	76	L	2.4	55	43	71	L	2.9
PCB-100	Penta		6.1	4.1	9.1	L	2.5	3.2	2.5	4.1	L	2.9
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		5.1	3.5	7.7	L	2.5	4.6	3.6	5.8	L	2.9
PCB-104	Penta	PRC										
PCB-105	Penta		20	13	29	L	2.2	27	20	36	L	2.9
PCB-106	Penta		59	40	87	C L	2.2	72	54	96	C L	2.9
PCB-107	Penta		5.3	3.6	7.9	C L	2.2	6.3	4.7	8.4	C L	2.9
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CC-S010				LDW-Y3-SC-ENR+AC-CA-S010-LONG					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	14	23	23	27	J	32
PCB-2	Mono					U	4.4				U	2.5
PCB-3	Mono					U	4.7				U	2.7
PCB-4	Di		66	55	94		16	41	41	68		12
PCB-5	Di					U	6.1				U	3.7
PCB-6	Di		23	18	33		8.9	5.6	5.3	13	J	6.3
PCB-7	Di		8.6	6.7	12	J	8.9				U	3.5
PCB-8	Di		76	60	110		8.9	26	24	59		6.3
PCB-9	Di					U	6.2				U	3.6
PCB-10	Di					U	10				U	6.9
PCB-11	Di		5.1	4	7.1		5.2	4.7	3.1	11		4.6
PCB-12	Di					U	3.7				U	2.7
PCB-13	Di					U	3.5				U	2.7
PCB-14	Di	PRC										
PCB-15	Di		14	11	20		5.2	5.4	3.5	13		4.6
PCB-16	Tri		58	44	80		5.3	26	17	62		4.6
PCB-17	Tri		100	78	140		5.3	40	26	93		4.6
PCB-18	Tri		220	170	300		5.3	100	65	240		4.6
PCB-19	Tri		35	27	50		7.6	16	14	39		5.5
PCB-20	Tri		87	67	120	C	3.8	49	28	100	C	4.6
PCB-21	Tri					C020					C020	
PCB-22	Tri		46	35	62		3.8	27	15	56		4.6
PCB-23	Tri					U	1.9				U	2
PCB-24	Tri		11	8.3	15		5.3	6.5	4.2	15		4.6
PCB-25	Tri		17	13	23		3.8	9.8	5.5	21		4.6
PCB-26	Tri		29	23	40		3.8	19	11	40		4.6
PCB-27	Tri		11	8.4	15		5.3	6.2	4	14		4.6
PCB-28	Tri		120	89	160		3.8	75	42	160		4.6
PCB-29	Tri					U	1.8				U	2.1
PCB-30	Tri					U	3.3				U	2.3
PCB-31	Tri		140	110	190		3.8	61	34	130		4.6
PCB-32	Tri		82	63	110		5.3	32	21	75		4.6
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.9				U	2.1
PCB-35	Tri					U	1.3				U	2.3
PCB-36	Tri	PRC										
PCB-37	Tri		17	14	23		2.8	19	11	36		5.2
PCB-38	Tri					U	1.2				U	2.4
PCB-39	Tri					U	1.3				U	2.3
PCB-40	Tetra		27	21	35		2.4	30	17	54	L	5.5
PCB-41	Tetra		110	83	140	C	2.3	130	75	240	C L	5.7
PCB-42	Tetra		52	41	68	C	2.4	62	35	110	C L	5.5
PCB-43	Tetra		130	100	170	C	2.4	150	88	280	C L	5.5
PCB-44	Tetra		130	99	160		2.4	150	83	270	L	5.5
PCB-45	Tetra		47	36	62		3.1	34	19	65		4.9
PCB-46	Tetra		18	14	23		3.1	15	8.6	29		4.9
PCB-47	Tetra		55	43	71		2.4	59	34	110	L	5.5
PCB-48	Tetra		31	24	40	C	2.4	33	19	60	C L	5.5
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		3	2.3	4	J	3.1	3.3	1.8	6.3	J	4.9
PCB-51	Tetra		16	12	21		3.1	16	9.1	31		4.9
PCB-52	Tetra		180	140	230	C	2.4	200	110	370	C L	5.5
PCB-53	Tetra		39	30	52		3.1	37	21	71		4.9
PCB-54	Tetra					U	1.7				U	1.8
PCB-55	Tetra		3	2.4	3.9		1.9	3.3	1.7	6.2	L	6.3
PCB-56	Tetra		46	36	58	C	1.9	83	44	160	C L	6.3
PCB-57	Tetra					U	1.1				U L	2.2
PCB-58	Tetra					U	1.1				U L	2.2
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		90	72	110	C	1.9	140	75	270	C L	6.3
PCB-62	Tetra					U	1.4				U L	2.1
PCB-63	Tetra		5.3	4.2	6.7		1.9	6.8	3.6	13	L	6.3
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	1.4				U L	2
PCB-66	Tetra		73	58	92	C	1.9	120	64	230	C L	6.3
PCB-67	Tetra		5.1	4.1	6.5		1.9	7.8	4.2	15	L	6.3
PCB-68	Tetra		2.3	1.8	2.9		1.9	3	1.6	5.8	J L	6.3
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.3	1.8	2.9		2.4	3.8	2.2	7	L	5.5
PCB-74	Tetra		42	33	53		1.9	65	35	130	L	6.3
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		3.5	2.8	4.4		1.5	8.7	4	19	L	7.3
PCB-78	Tetra	PRC										
PCB-79	Tetra					U	0.84				U L	3.6
PCB-80	Tetra					U	0.76				U L	2.1
PCB-81	Tetra					U	0.83				U L	3.7
PCB-82	Penta		8.9	7.2	11		1.2	27	10	74	L	8.5
PCB-83	Penta		3.5	2.8	4.3	C	1.2	14	5.3	38	C L	8.5
PCB-84	Penta		36	30	45	C	1.3	140	58	350	C L	8
PCB-85	Penta		9.6	7.8	12	C	1.2	36	14	97	C L	8.5
PCB-86	Penta					U	1.2				U L	4.9
PCB-87	Penta		22	18	27	C	1.2	87	33	230	C L	8.5
PCB-88	Penta					UC	1.1				UC L	3.9
PCB-89	Penta					U	1.2				U L	4.2
PCB-90	Penta		75	61	92	C	1.2	290	110	790	C L	8.5
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	1.1				U L	4.1
PCB-94	Penta					U	1.2				U L	4.3
PCB-95	Penta		100	83	130		1.5	370	160	830	L	7.5
PCB-96	Penta		1.5	1.2	1.8		1.3	5.4	2.2	14	J L	8
PCB-97	Penta		21	17	25		1.2	86	32	230	L	8.5
PCB-98	Penta					UC	1.2				UC L	4
PCB-99	Penta		28	23	35		1.2	120	46	330	L	8.5
PCB-100	Penta		2	1.6	2.5		1.5	9.6	4.3	22	L	7.5
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		2.4	1.9	2.9		1.5	11	4.8	25	L	7.5
PCB-104	Penta	PRC										
PCB-105	Penta		12	10	15		1	70	22	230	L	9.7
PCB-106	Penta		34	28	42	C	1	190	60	630	C L	9.7
PCB-107	Penta		3.1	2.5	3.8	C	1	17	5.2	54	C L	9.7
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CB-S010-LONG				LDW-Y3-SC-ENR+AC-CC-S010-LONG					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	12				U	7.2
PCB-2	Mono					U	2.8				U	1.7
PCB-3	Mono					U	3				U	1.7
PCB-4	Di		19				12	58	58	150		12
PCB-5	Di					U	3.9				U	2.3
PCB-6	Di		8.2				6.2	19	19	65		6
PCB-7	Di					U	3.8	3.4	3.3	12	J	6
PCB-8	Di		31				6.2	77	76	260		6
PCB-9	Di					U	4	5.2	5.1	18	J	6
PCB-10	Di					U	7.3				U	4.5
PCB-11	Di		6.1				4	4	3	15		3.8
PCB-12	Di					U	2.6				U	1.5
PCB-13	Di					U	2.5				U	1.4
PCB-14	Di	PRC										
PCB-15	Di		9.6				4	13	10	49		3.8
PCB-16	Tri		30				4.1	42	32	150		3.9
PCB-17	Tri		42				4.1	76	58	280		3.9
PCB-18	Tri		96				4.1	180	140	670		3.9
PCB-19	Tri		13				5.3	25	24	91		5.1
PCB-20	Tri		55			C	3.6	100	52	310	C	3.7
PCB-21	Tri					C020					C020	
PCB-22	Tri		32				3.6	48	25	150		3.7
PCB-23	Tri					U	1.3				U	1.8
PCB-24	Tri		6				4.1	8.3	6.3	30		3.9
PCB-25	Tri		12				3.6	18	9.1	54		3.7
PCB-26	Tri		20				3.6	30	15	92		3.7
PCB-27	Tri		4.8				4.1	8.5	6.4	31		3.9
PCB-28	Tri		82				3.6	130	70	420		3.7
PCB-29	Tri					U	1.3				U	1.7
PCB-30	Tri					U	1.9				U	1.7
PCB-31	Tri		86				3.6	140	72	430		3.7
PCB-32	Tri		31				4.1	66	50	240		3.9
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.3				U	1.8
PCB-35	Tri					U	1.2				U	1.9
PCB-36	Tri	PRC										
PCB-37	Tri		18				3.5	27	12	71		4.2
PCB-38	Tri					U	1.2				U	1.8
PCB-39	Tri					U	1.2				U	1.9
PCB-40	Tetra		26				3.5	33	15	85	L	4.6
PCB-41	Tetra		98			C	3.6	160	70	420	C L	4.8
PCB-42	Tetra		46			C	3.5	75	33	190	C L	4.6
PCB-43	Tetra		120			C	3.5	180	77	450	C L	4.6
PCB-44	Tetra		110				3.5	170	76	440	L	4.6
PCB-45	Tetra		29				3.5	41	19	110		4
PCB-46	Tetra		13				3.5	16	7.2	43		4
PCB-47	Tetra		46				3.5	65	28	160	L	4.6
PCB-48	Tetra		27			C	3.5	44	19	110	C L	4.6
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		3.4			J	3.5	3.2	1.5	8.8	J	4
PCB-51	Tetra		15				3.5	18	8.3	49		4
PCB-52	Tetra		160			C	3.5	220	97	560	C L	4.6
PCB-53	Tetra		33				3.5	45	21	120		4
PCB-54	Tetra					U	1.6				U	1.3
PCB-55	Tetra		3.6			L	3.7	4	1.6	11	L	5.4
PCB-56	Tetra		56			C L	3.7	98	38	270	C L	5.4
PCB-57	Tetra		2.2			J L	3.7				U L	1.5
PCB-58	Tetra					U L	1.6				U L	1.6
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		100			C L	3.7	180	71	500	C L	5.4
PCB-62	Tetra					U	1.5				U L	1.3
PCB-63	Tetra		6.3			L	3.7	9.4	3.7	26	L	5.4
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	1.5				U L	1.3
PCB-66	Tetra		89			C L	3.7	150	59	420	C L	5.4
PCB-67	Tetra		6.2			L	3.7	8.2	3.2	23	L	5.4
PCB-68	Tetra		3.2			L	3.7	3.7	1.5	10	J L	5.4
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.1				3.5	4.9	2.2	13	L	4.6
PCB-74	Tetra		47			L	3.7	83	32	230	L	5.4
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		8			L	3.8	14	4.3	48	L	6.5
PCB-78	Tetra	PRC										
PCB-79	Tetra					U L	1.4	2.9	0.88	9.9	J L	6.5
PCB-80	Tetra		2.7			J L	3.8	3.5	1.1	12	J L	6.5
PCB-81	Tetra		2.9			J L	3.8	6.6	2	23	L	6.5
PCB-82	Penta		18			L	4.1	30	6.7	140	L	8
PCB-83	Penta		7.1			C L	4.1	14	3	64	C L	8
PCB-84	Penta		79			C L	4	140	37	600	C L	7.4
PCB-85	Penta		18			C L	4.1	41	9.1	190	C L	8
PCB-86	Penta					U L	3.6				U L	5.1
PCB-87	Penta		46			C L	4.1	90	20	430	C L	8
PCB-88	Penta					U C L	1.8				U C L	2.8
PCB-89	Penta					U L	2.8	4.9	1.4	18	J L	6.8
PCB-90	Penta		160			C L	4.1	310	70	1500	C L	8
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	1.9				U L	2.9
PCB-94	Penta					U L	1.9				U L	3
PCB-95	Penta		180			L	3.9	310	90	1100	L	6.8
PCB-96	Penta					U L	1.4	5.5	1.4	23	J L	7.4
PCB-97	Penta		44			L	4.1	83	19	390	L	8
PCB-98	Penta					U C L	2				U C L	3
PCB-99	Penta		65			L	4.1	130	28	590	L	8
PCB-100	Penta		5.1			L	3.9	7.9	2.3	29	L	6.8
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		5.6			L	3.9	9	2.6	33	L	6.8
PCB-104	Penta	PRC										
PCB-105	Penta		35			L	4.3	72	12	450	L	9.4
PCB-106	Penta		97			C L	4.3	200	34	1300	C L	9.4
PCB-107	Penta		9.7			C L	4.3	16	2.6	100	C L	9.4
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP				LDW-Y3-SC-ENR-CA-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	8.7				U	6.1
PCB-2	Mono					U	2.5				U	2
PCB-3	Mono					U	2.8				U	2.2
PCB-4	Di		38	37	45		13	78	68	130		14
PCB-5	Di					U	4				U	3.4
PCB-6	Di		17	14	23		7.3	25	19	45		8.5
PCB-7	Di					U	3.9				U	3.3
PCB-8	Di		58	49	79		7.3	100	77	180		8.5
PCB-9	Di					U	4.1				U	3.5
PCB-10	Di					U	6.4				U	5.2
PCB-11	Di		2.2	1.7	3.1		5.4				UB	5.7
PCB-12	Di					U	3.3				U	2.5
PCB-13	Di					U	3.2				U	2.4
PCB-14	Di	PRC										
PCB-15	Di		21	16	29		5.4	18	12	31		5.7
PCB-16	Tri		49	37	69		5.5	67	44	120		5.7
PCB-17	Tri		73	55	100		5.5	96	63	170		5.7
PCB-18	Tri		190	150	270		5.5	230	150	400		5.7
PCB-19	Tri		29	24	41		6.5	45	32	80		7.5
PCB-20	Tri		100	75	140	C	5	95	62	160	C	4.6
PCB-21	Tri					C020					C020	
PCB-22	Tri		50	38	69		5	47	31	79		4.6
PCB-23	Tri					U	2				U	1.4
PCB-24	Tri		4.4	3.4	6.2	J	5.5	9.7	6.4	17		5.7
PCB-25	Tri		23	18	32		5	21	14	35		4.6
PCB-26	Tri		42	31	57		5	33	22	56		4.6
PCB-27	Tri		18	14	26		5.5	18	12	30		5.7
PCB-28	Tri		150	110	200		5	150	95	240		4.6
PCB-29	Tri					U	1.9				U	1.3
PCB-30	Tri					U	1.6				U	1.1
PCB-31	Tri		160	120	220		5	140	90	230		4.6
PCB-32	Tri		62	47	88		5.5	82	54	140		5.7
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.9				U	1.3
PCB-35	Tri					U	1.9				U	1.1
PCB-36	Tri	PRC										
PCB-37	Tri		31	24	42		4.9	20	13	32		3.8
PCB-38	Tri					U	1.8				U	1.1
PCB-39	Tri					U	1.8				U	1.1
PCB-40	Tetra		35	27	45	L	4.9	19	13	30		3.5
PCB-41	Tetra		150	120	200	C L	4.9	84	56	130	C	3.4
PCB-42	Tetra		75	58	98	C L	4.9	43	29	67	C	3.5
PCB-43	Tetra		190	150	250	C L	4.9	99	65	150	C	3.5
PCB-44	Tetra		180	140	230	L	4.9	100	68	160		3.5
PCB-45	Tetra		47	35	62		4.9	33	21	53		4
PCB-46	Tetra		21	16	27		4.9	14	9	22		4
PCB-47	Tetra		71	55	93	L	4.9	35	23	55		3.5
PCB-48	Tetra		40	31	52	C L	4.9	24	16	38	C	3.5
PCB-49	Tetra					C043					C043	
PCB-50	Tetra					U	2.4	3.5	2.3	5.6	J	4
PCB-51	Tetra		22	17	29		4.9	12	7.7	19		4
PCB-52	Tetra		250	190	330	C L	4.9	140	96	230	C	3.5
PCB-53	Tetra		53	40	70		4.9	33	21	53		4
PCB-54	Tetra					U	1.9				U	1.4
PCB-55	Tetra		5.1	4	6.7	L	5	2.1	1.4	3.1		3.1
PCB-56	Tetra		97	75	130	C L	5	44	30	65	C	3.1
PCB-57	Tetra					U L	1.9				U	1
PCB-58	Tetra					U L	1.9				U	1.1
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		150	110	190	C L	5	74	51	110	C	3.1
PCB-62	Tetra					U L	2.1				U	1.4
PCB-63	Tetra		6.7	5.2	8.8	L	5	3.3	2.2	4.9		3.1
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U L	1.8				U	1.2
PCB-66	Tetra		120	94	160	C L	5	63	43	94	C	3.1
PCB-67	Tetra		6.1	4.7	8	L	5	3.3	2.3	5		3.1
PCB-68	Tetra		3.3	2.5	4.3	J L	5	2	1.4	3	J	3.1
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.8	2.1	3.6	L	4.9				U	1.2
PCB-74	Tetra		68	53	89	L	5	33	22	49		3.1
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		9.1	6.8	12	L	5.1	3.7	2.6	5.3	L	2.7
PCB-78	Tetra	PRC										
PCB-79	Tetra		4.1	3	5.4	J L	5.1				U L	0.93
PCB-80	Tetra		2.6	2	3.5	J L	5.1	1.5	1	2.2	J L	2.7
PCB-81	Tetra					U L	2.6	1.9	1.3	2.7	J L	2.7
PCB-82	Penta		24	17	33	L	5.3	8.7	6.2	12	L	2.4
PCB-83	Penta		12	8.6	17	C L	5.3	4.2	3	6	C L	2.4
PCB-84	Penta		130	93	170	C L	5.2	48	34	68	C L	2.5
PCB-85	Penta		32	23	45	C L	5.3	11	8	16	C L	2.4
PCB-86	Penta					U L	2.4				U L	1.2
PCB-87	Penta		74	53	100	C L	5.3	26	18	36	C L	2.4
PCB-88	Penta					U C L	2.3				U C L	1.1
PCB-89	Penta		4.2	3.1	5.6	J L	5.1	2.4	1.6	3.4	J L	2.6
PCB-90	Penta		250	180	350	C L	5.3	87	61	120	C L	2.4
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	2.3				U L	1.2
PCB-94	Penta					U L	2.5				U L	1.2
PCB-95	Penta		250	190	340	L	5.1	100	72	150	L	2.6
PCB-96	Penta		4.7	3.4	6.4	J L	5.2				U L	0.85
PCB-97	Penta		67	48	94	L	5.3	25	17	35	L	2.4
PCB-98	Penta					U C L	2.5				U C L	1.2
PCB-99	Penta		100	72	140	L	5.3	34	24	49	L	2.4
PCB-100	Penta		8	6	11	L	5.1	3.1	2.1	4.4	L	2.6
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		8.5	6.3	11	L	5.1	2.5	1.7	3.6	J L	2.6
PCB-104	Penta	PRC										
PCB-105	Penta		45	31	67	L	5.4	15	10	21	L	2.2
PCB-106	Penta		120	82	180	C L	5.4	39	28	56	C L	2.2
PCB-107	Penta		11	7.8	17	C L	5.4	3.4	2.4	4.8	C L	2.2
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CC-S010				LDW-Y3-SC-ENR-CD-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	8.7				U	9.4
PCB-2	Mono					U	2.1				U	2.5
PCB-3	Mono					U	2.3				U	2.6
PCB-4	Di		110	110	130		12	86	85	98		12
PCB-5	Di					U	2.8				U	1.6
PCB-6	Di		40	38	58		6.3	26	24	33		6.5
PCB-7	Di		9	8.5	13		6.3	3.3	3	4.2	J	6.5
PCB-8	Di		160	150	230		6.3	110	99	140		6.5
PCB-9	Di		5.4	5.1	7.8	J	6.3	6.8	6.2	8.7		6.5
PCB-10	Di					U	4.9				U	2.9
PCB-11	Di		6	4.7	9.6		3.8	6.2	5	8.3		3.9
PCB-12	Di		2.3	1.8	3.6	J	3.8	2.1	1.7	2.9	J	3.9
PCB-13	Di		3.4	2.6	5.4	J	3.8	2.1	1.7	2.8	J	3.9
PCB-14	Di	PRC										
PCB-15	Di		24	19	39		3.8	17	14	23		3.9
PCB-16	Tri		110	83	170		3.8	67	55	91		4
PCB-17	Tri		160	130	260		3.8	92	75	120		4
PCB-18	Tri		410	320	650		3.8	230	190	310		4
PCB-19	Tri		63	56	94		5.3	47	42	61		5.5
PCB-20	Tri		170	120	280	C	3	90	71	120	C	3.1
PCB-21	Tri					C020					C020	
PCB-22	Tri		86	62	140		3	45	36	60		3.1
PCB-23	Tri					U	1.3				U	1.2
PCB-24	Tri		21	17	34		3.8	13	11	17		4
PCB-25	Tri		29	21	46		3	18	14	24		3.1
PCB-26	Tri		50	36	81		3	32	26	43		3.1
PCB-27	Tri		16	13	26		3.8	11	9	15		4
PCB-28	Tri		240	170	380		3	120	91	150		3.1
PCB-29	Tri		2.8	2	4.5	J	3	1.8	1.4	2.4	J	3.1
PCB-30	Tri					U	1.7				U	1.6
PCB-31	Tri		220	160	360		3	140	110	180		3.1
PCB-32	Tri		130	100	210		3.8	77	63	100		4
PCB-33	Tri					C020					C020	
PCB-34	Tri		2.2	1.6	3.6	J	3				U	1.2
PCB-35	Tri		2.5	1.7	3.9	J	2.6				U	1
PCB-36	Tri	PRC										
PCB-37	Tri		36	25	56		2.6	18	14	23		2.6
PCB-38	Tri		1.4	0.98	2.2	J	2.6				U	0.95
PCB-39	Tri					U	1.2				U	0.94
PCB-40	Tetra		29	20	44		2.5	17	13	21		2.4
PCB-41	Tetra		130	88	200	C	2.4	70	56	89	C	2.3
PCB-42	Tetra		62	42	95	C	2.5	36	28	45	C	2.4
PCB-43	Tetra		140	96	210	C	2.5	87	69	110	C	2.4
PCB-44	Tetra		150	110	240		2.5	86	69	110		2.4
PCB-45	Tetra		44	31	70		2.7	29	23	38		2.7
PCB-46	Tetra		20	14	31		2.7	12	9.2	15		2.7
PCB-47	Tetra		52	35	79		2.5	28	22	35		2.4
PCB-48	Tetra		39	27	61	C	2.5	21	16	26	C	2.4
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		1.9	1.3	2.9	J	2.7	1.7	1.3	2.2	J	2.7
PCB-51	Tetra		17	11	26		2.7	10	8.2	14		2.7
PCB-52	Tetra		180	130	280	C	2.5	120	92	150	C	2.4
PCB-53	Tetra		47	33	75		2.7	29	23	38		2.7
PCB-54	Tetra		1.6	1.1	2.5	J	2.6				U	1
PCB-55	Tetra		4.3	2.9	6.4		2.3	2.2	1.7	2.7		2.2
PCB-56	Tetra		69	48	100	C	2.3	41	33	51	C	2.2
PCB-57	Tetra					U	0.74				U	0.79
PCB-58	Tetra					U	0.77				U	0.79
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		120	80	170	C	2.3	62	50	78	C	2.2
PCB-62	Tetra					U	0.89				U	1
PCB-63	Tetra		4.5	3.1	6.7		2.3	2.9	2.3	3.6		2.2
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.79				U	0.89
PCB-66	Tetra		92	63	140	C	2.3	53	43	66	C	2.2
PCB-67	Tetra		5.8	4	8.6		2.3	2.7	2.2	3.4		2.2
PCB-68	Tetra		2.4	1.7	3.6		2.3	1.7	1.4	2.2	J	2.2
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.5	1.7	3.9		2.5	0.92	0.73	1.2		2.4
PCB-74	Tetra		55	38	82		2.3	27	22	34		2.2
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		6.7	4.7	9.8	L	2.1	4.2	3.4	5.2		2
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.2	0.85	1.8	J L	2.1	1.2	0.93	1.4	J	2
PCB-80	Tetra		3.2	2.2	4.7	L	2.1	0.97	0.79	1.2	J	2
PCB-81	Tetra		3.4	2.4	5	L	2.1	1.6	1.3	2	J	2
PCB-82	Penta		9.5	6.6	14	L	2	8.3	6.6	10	L	1.8
PCB-83	Penta		4.9	3.4	7.2	C L	2	3.4	2.7	4.3	C L	1.8
PCB-84	Penta		52	36	75	C L	2.1	40	32	50	C L	1.9
PCB-85	Penta		14	9.9	21	C L	2	9.1	7.2	12	C L	1.8
PCB-86	Penta					U L	1.2				U L	0.82
PCB-87	Penta		31	22	46	C L	2	23	18	29	C L	1.8
PCB-88	Penta					U C L	1.3				U C	0.57
PCB-89	Penta		2	1.4	2.9	J L	2.1	1.3	1	1.6	J	1.9
PCB-90	Penta		100	72	150	C L	2	76	60	96	C L	1.8
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	0.72				U	0.59
PCB-94	Penta		1.7	1.2	2.5	J L	2.1				U	0.63
PCB-95	Penta		120	82	170	L	2.1	84	68	100		1.9
PCB-96	Penta		1.8	1.3	2.7	J L	2.1	1.6	1.3	2.1	J L	1.9
PCB-97	Penta		30	20	43	L	2	21	17	27	L	1.8
PCB-98	Penta					U C L	0.85				U C	0.62
PCB-99	Penta		41	29	60	L	2	30	24	39	L	1.8
PCB-100	Penta		2.6	1.8	3.8	L	2.1	2.3	1.9	2.9		1.9
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		3.1	2.2	4.6	L	2.1	2.5	2	3.1		1.9
PCB-104	Penta	PRC										
PCB-105	Penta		19	13	29	L	2	12	9	15	L	1.7
PCB-106	Penta		55	38	82	C L	2	33	26	44	C L	1.7
PCB-107	Penta		4.8	3.3	7.2	C L	2	2.9	2.2	3.7	C L	1.7
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CA-S010-LONG				LDW-Y3-SC-ENR-CC-S010-LONG					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	6.4				U	10
PCB-2	Mono					U	2				U	3
PCB-3	Mono					U	2.2				U	3.2
PCB-4	Di		120	100	150		15	110	100	120		15
PCB-5	Di					U	3.5				U	2.2
PCB-6	Di		36	29	47		8.5	35	31	40		7.8
PCB-7	Di					U	3.5	7.3	6.5	8.4	J	7.8
PCB-8	Di		140	120	190		8.5	150	130	170		7.8
PCB-9	Di		9.9	8.2	13		8.5	7.4	6.6	8.5	J	7.8
PCB-10	Di					U	5.9				U	3.9
PCB-11	Di					UB	5	0.78	0.69	0.89		4.4
PCB-12	Di					U	2.3				U	1.4
PCB-13	Di					U	2.2	2.8	2.5	3.2	J	4.4
PCB-14	Di	PRC										
PCB-15	Di		23	18	30		5	21	18	24		4.4
PCB-16	Tri		66	53	86		5.1	75	67	86		4.4
PCB-17	Tri		110	87	140		5.1	120	110	140		4.4
PCB-18	Tri		280	220	360		5.1	300	260	340		4.4
PCB-19	Tri		56	46	74		7.3	60	54	69		6.6
PCB-20	Tri		100	81	130	C	3.6	90	81	100	C	3.1
PCB-21	Tri					C020					C020	
PCB-22	Tri		53	42	67		3.6	44	39	50		3.1
PCB-23	Tri					U	1.5				U	1.4
PCB-24	Tri		13	11	17		5.1	16	14	18		4.4
PCB-25	Tri		21	17	27		3.6	19	17	22		3.1
PCB-26	Tri		37	30	47		3.6	34	30	38		3.1
PCB-27	Tri		18	14	23		5.1	18	16	21		4.4
PCB-28	Tri		150	120	190		3.6	140	120	150		3.1
PCB-29	Tri					U	1.4				U	1.3
PCB-30	Tri					U	2.1				U	1.9
PCB-31	Tri		160	130	200		3.6	150	130	170		3.1
PCB-32	Tri		100	82	130		5.1	110	95	120		4.4
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.4				U	1.3
PCB-35	Tri					U	1.1				U	0.95
PCB-36	Tri	PRC										
PCB-37	Tri		20	16	25		2.6	17	16	20		2.1
PCB-38	Tri					U	1				U	0.9
PCB-39	Tri					U	1				U	0.89
PCB-40	Tetra		19	15	23		2.3	14	13	16		1.9
PCB-41	Tetra		78	64	96	C	2.2	61	55	68	C	1.7
PCB-42	Tetra		40	33	50	C	2.3	29	26	33	C	1.9
PCB-43	Tetra		97	79	120	C	2.3	74	66	82	C	1.9
PCB-44	Tetra		96	79	120		2.3	73	66	82		1.9
PCB-45	Tetra		36	29	45		2.9	27	24	30		2.4
PCB-46	Tetra		16	13	20		2.9	11	9.8	12		2.4
PCB-47	Tetra		34	28	42		2.3	25	22	28		1.9
PCB-48	Tetra		23	19	28	C	2.3	17	15	19	C	1.9
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		2.4	1.9	3	J	2.9	1.5	1.3	1.7	J	2.4
PCB-51	Tetra		13	11	17		2.9	9.8	8.7	11		2.4
PCB-52	Tetra		130	110	160	C	2.3	98	88	110	C	1.9
PCB-53	Tetra		36	30	46		2.9	29	25	32		2.4
PCB-54	Tetra					U	0.75	1.2	1.1	1.4	J	2.3
PCB-55	Tetra		3	2.5	3.7		1.8	1.2	1.1	1.3		1.4
PCB-56	Tetra		42	35	52	C	1.8	32	29	35	C	1.4
PCB-57	Tetra					U	0.48				U	0.41
PCB-58	Tetra					U	0.48				U	0.41
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		64	53	77	C	1.8	48	44	54	C	1.4
PCB-62	Tetra					U	0.69				U	0.61
PCB-63	Tetra		3	2.5	3.7		1.8	1.9	1.7	2.2		1.4
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.61				U	0.54
PCB-66	Tetra		53	44	65	C	1.8	39	35	43	C	1.4
PCB-67	Tetra		2.5	2.1	3.1		1.8	2	1.8	2.2		1.4
PCB-68	Tetra		1	0.83	1.2	J	1.8	0.87	0.79	0.97	J	1.4
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		0.85	0.69	1	J	2.3	0.94	0.85	1.1		1.9
PCB-74	Tetra		29	24	35		1.8	20	18	23		1.4
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		3.5	3	4.3		1.5	2.8	2.5	3		1.1
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.1	0.89	1.3	J	1.5	0.58	0.52	0.64	J	1.1
PCB-80	Tetra		0.64	0.54	0.77	J	1.5	0.46	0.41	0.5	J	1.1
PCB-81	Tetra		2.1	1.8	2.6		1.5	1.2	1	1.3		1.1
PCB-82	Penta		5.7	4.8	6.8		1.2	4	3.7	4.4		0.85
PCB-83	Penta		2.7	2.3	3.2	C	1.2	1.7	1.6	1.9	C	0.85
PCB-84	Penta		31	26	37	C	1.3	23	21	26	C	0.95
PCB-85	Penta		7.2	6.1	8.5	C	1.2	5.2	4.7	5.7	C	0.85
PCB-86	Penta					U	0.69				U	0.49
PCB-87	Penta		17	15	21	C	1.2	12	11	13	C	0.85
PCB-88	Penta					UC	0.5				UC	0.31
PCB-89	Penta		1.2	0.97	1.4	J	1.4	0.94	0.85	1	J	1
PCB-90	Penta		56	47	67	C	1.2	42	38	46	C	0.85
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.51				U	0.32
PCB-94	Penta		0.7	0.59	0.84	J	1.4				U	0.34
PCB-95	Penta		69	58	82		1.4	56	51	61		1
PCB-96	Penta		1	0.86	1.2	J	1.3	0.77	0.7	0.84	J	0.94
PCB-97	Penta		16	14	19		1.2	11	10	13		0.85
PCB-98	Penta					UC	0.54				UC	0.33
PCB-99	Penta		23	19	27		1.2	16	15	18		0.85
PCB-100	Penta		1.3	1.1	1.5	J	1.4	0.98	0.89	1.1	J	1
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		1.9	1.6	2.3		1.4	1.3	1.2	1.4		1
PCB-104	Penta	PRC										
PCB-105	Penta		8	6.8	9.5		0.98	6	5.5	6.6		0.7
PCB-106	Penta		24	20	28	C	0.98	17	15	18	C	0.7
PCB-107	Penta		1.9	1.7	2.3	C	0.98	1.4	1.3	1.6	C	0.7
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG				LDW-Y3-SC-ENR-S010-DEP					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		12	11	30	J	35	21	15	73	J	44
PCB-2	Mono					U	1.8				U	3.4
PCB-3	Mono					U	2.1				U	3.9
PCB-4	Di		110	88	280		16	150	89	460		21
PCB-5	Di					U	3.8				U	5.6
PCB-6	Di		42	27	98		9.3	57	30	160		12
PCB-7	Di		7.7	5.1	18	J	9.3	9.2	4.9	25	J	12
PCB-8	Di		180	120	420		9.3	190	100	540		12
PCB-9	Di		12	7.6	27		9.3	12	6.2	32	J	12
PCB-10	Di					U	5.7				U	8.4
PCB-11	Di					UB	5.7	0.75	0.39	1.8		7.5
PCB-12	Di					U	2.5	4.9	2.5	12	J	7.5
PCB-13	Di					U	2.6	4.7	2.4	11	J	7.5
PCB-14	Di	PRC										
PCB-15	Di		26	16	57		5.7	39	20	94		7.5
PCB-16	Tri		160	96	350		5.8	140	73	340		7.7
PCB-17	Tri		210	130	460		5.8	200	100	480		7.7
PCB-18	Tri		550	330	1200		5.8	510	260	1200		7.7
PCB-19	Tri		80	51	180		8.1	93	49	250		11
PCB-20	Tri		220	130	440	C	4.3	160	84	350	C	5.6
PCB-21	Tri					C020					C020	
PCB-22	Tri		110	63	220		4.3	87	46	190		5.6
PCB-23	Tri					U	1.3				U	2.8
PCB-24	Tri		26	16	57		5.8	28	14	67		7.7
PCB-25	Tri		34	20	68		4.3	31	16	69		5.6
PCB-26	Tri		62	36	120		4.3	55	29	120		5.6
PCB-27	Tri		25	15	54		5.8	26	13	63		7.7
PCB-28	Tri		300	170	600		4.3	270	140	590		5.6
PCB-29	Tri					U	1.2				U	2.7
PCB-30	Tri					U	2.1				U	3.7
PCB-31	Tri		290	170	580		4.3	230	120	510		5.6
PCB-32	Tri		160	94	340		5.8	160	83	390		7.7
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.4				U	3.1
PCB-35	Tri					U	0.98	3.4	1.9	6.8	J	4.1
PCB-36	Tri	PRC										
PCB-37	Tri		37	22	69		3.2	37	20	74		4.1
PCB-38	Tri					U	0.91				U	2
PCB-39	Tri					U	1				U	2.2
PCB-40	Tetra		32	19	58		2.9	31	17	59		3.5
PCB-41	Tetra		120	73	220	C	2.7	130	74	250	C	3.3
PCB-42	Tetra		60	36	110	C	2.9	66	37	130	C	3.5
PCB-43	Tetra		130	80	240	C	2.9	170	92	320	C	3.5
PCB-44	Tetra		150	91	280		2.9	160	91	320		3.5
PCB-45	Tetra		55	32	110		3.5	54	29	110		4.5
PCB-46	Tetra		24	14	45		3.5	23	13	48		4.5
PCB-47	Tetra		47	28	86		2.9	64	36	120		3.5
PCB-48	Tetra		37	22	68	C	2.9	38	21	74	C	3.5
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		2.4	1.4	4.7	J	3.5	4.1	2.2	8.6	J	4.5
PCB-51	Tetra		20	11	37		3.5	25	13	51		4.5
PCB-52	Tetra		180	110	330	C	2.9	220	120	430	C	3.5
PCB-53	Tetra		58	34	110		3.5	63	34	130		4.5
PCB-54	Tetra		2.1	1.2	3.9	J	3.4	2.2	1.2	4.4	J	4.2
PCB-55	Tetra		2.2	1.3	3.8		2.3	4.4	2.5	7.9		2.8
PCB-56	Tetra		53	32	92	C	2.3	60	35	110	C	2.8
PCB-57	Tetra		1.1	0.7	2	J	2.3				U	1
PCB-58	Tetra					U	0.64				U	1.1
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		93	57	160	C	2.3	110	63	200	C	2.8
PCB-62	Tetra					U	0.84				U	1.4
PCB-63	Tetra		3.8	2.3	6.5		2.3	4.8	2.8	8.7		2.8
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.74				U	1.3
PCB-66	Tetra		75	45	130	C	2.3	87	50	160	C	2.8
PCB-67	Tetra		4.2	2.6	7.3		2.3	5.4	3.2	9.9		2.8
PCB-68	Tetra		2	1.2	3.4	J	2.3	3.2	1.9	5.8		2.8
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.1	1.3	3.8		2.9	3.6	2	7		3.5
PCB-74	Tetra		43	26	74		2.3	50	29	91		2.8
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		4.3	2.7	7.2		1.9	5.9	3.6	10	L	2.2
PCB-78	Tetra	PRC										
PCB-79	Tetra					U	0.71	1.3	0.8	2.3	J L	2.2
PCB-80	Tetra		1.4	0.84	2.3	J	1.9	1.8	1.1	3.1	J L	2.2
PCB-81	Tetra		1.7	1.1	2.9	J	1.9	2.4	1.5	4.2	L	2.2
PCB-82	Penta		5.9	3.7	9.7	L	1.6	7.4	4.6	12	L	1.8
PCB-83	Penta		3	1.9	4.9	C L	1.6	3.7	2.3	6.2	C L	1.8
PCB-84	Penta		35	22	57	C	1.7	41	25	69	C L	1.9
PCB-85	Penta		7.9	5	13	C L	1.6	9.3	5.8	15	C L	1.8
PCB-86	Penta					U L	0.99				U L	1.2
PCB-87	Penta		19	12	32	C L	1.6	24	15	40	C L	1.8
PCB-88	Penta					U C	1				U C L	1.5
PCB-89	Penta		1.5	0.93	2.5	J	1.8	1.8	1.1	3	J L	2.1
PCB-90	Penta		61	39	100	C L	1.6	76	47	130	C L	1.8
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.58				U L	0.85
PCB-94	Penta					U	0.69				U L	1
PCB-95	Penta		91	57	150		1.8	110	67	190	L	2.1
PCB-96	Penta		1.4	0.86	2.2	J	1.7				U L	0.59
PCB-97	Penta		18	12	30	L	1.6	22	14	36	L	1.8
PCB-98	Penta					U C	0.69				U C L	1
PCB-99	Penta		25	16	41	L	1.6	31	19	51	L	1.8
PCB-100	Penta		1.9	1.2	3.1		1.8	3.3	2	5.6	L	2.1
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		2.2	1.4	3.6		1.8	3.1	1.9	5.3	L	2.1
PCB-104	Penta	PRC										
PCB-105	Penta		12	7.4	19	L	1.3	12	7.7	20	L	1.5
PCB-106	Penta		31	19	50	C L	1.3	36	23	59	C L	1.5
PCB-107	Penta		2.4	1.5	4	C L	1.3	3.2	2	5.3	C L	1.5
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CA-S010				LDW-Y3-SU-ENR+AC-CC-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		160	160	190		33	20	19	23	J	35
PCB-2	Mono					U	1.5				U	1.4
PCB-3	Mono		7.9	6.9	10	J	8.7				U	1.6
PCB-4	Di		350	320	440		14	150	140	170		14
PCB-5	Di					U	2.9				U	2.2
PCB-6	Di		120	100	160		7.3	49	45	55		7.4
PCB-7	Di		17	15	22		7.3	8.7	8	9.7		7.4
PCB-8	Di		260	220	330		7.3	140	130	150		7.4
PCB-9	Di		20	17	26		7.3	8.1	7.5	9.1		7.4
PCB-10	Di		24	22	31		14	8.6	7.9	9.5	J	14
PCB-11	Di		4.9	4.1	6.3		4.1	1.6	1.4	1.7		3.9
PCB-12	Di					U	1.7				U	1.2
PCB-13	Di		4.6	3.8	5.9		4.1	3.1	2.8	3.4	J	3.9
PCB-14	Di	PRC										
PCB-15	Di		24	20	31		4.1	18	17	20		3.9
PCB-16	Tri		130	110	170		4.1	96	88	110		3.9
PCB-17	Tri		270	220	350		4.1	160	150	180		3.9
PCB-18	Tri		690	570	890		4.1	410	370	450		3.9
PCB-19	Tri		120	100	160		6.2	65	60	73		6.2
PCB-20	Tri		120	97	150	C	2.9	100	94	110	C	2.6
PCB-21	Tri					C020					C020	
PCB-22	Tri		59	49	75		2.9	57	52	63		2.6
PCB-23	Tri					U	1.1				U	0.88
PCB-24	Tri		29	24	37		4.1	20	18	22		3.9
PCB-25	Tri		39	32	49		2.9	24	22	27		2.6
PCB-26	Tri		69	57	88		2.9	46	42	51		2.6
PCB-27	Tri		24	20	31		4.1	17	15	19		3.9
PCB-28	Tri		200	160	250		2.9	170	150	190		2.6
PCB-29	Tri		1.7	1.4	2.2	J	2.9	1.6	1.5	1.8	J	2.6
PCB-30	Tri					U	1.7				U	1.4
PCB-31	Tri		220	180	270		2.9	170	160	190		2.6
PCB-32	Tri		210	170	270		4.1	110	100	130		3.9
PCB-33	Tri					C020					C020	
PCB-34	Tri		3.7	3	4.7		2.9	2.4	2.2	2.6	J	2.6
PCB-35	Tri		1.4	1.2	1.8	J	2				U	0.6
PCB-36	Tri	PRC										
PCB-37	Tri		18	15	23		2	17	15	18		1.7
PCB-38	Tri		1.8	1.5	2.3	J	2				U	0.57
PCB-39	Tri					U	0.81				U	0.63
PCB-40	Tetra		31	26	39		1.7	22	21	24		1.4
PCB-41	Tetra		130	110	170	C	1.6	94	87	100	C	1.3
PCB-42	Tetra		70	58	87	C	1.7	44	40	48	C	1.4
PCB-43	Tetra		220	180	270	C	1.7	120	110	140	C	1.4
PCB-44	Tetra		200	160	250		1.7	130	120	140		1.4
PCB-45	Tetra		55	45	70		2.3	34	32	38		2
PCB-46	Tetra		24	20	31		2.3	14	13	16		2
PCB-47	Tetra		70	58	87		1.7	42	39	46		1.4
PCB-48	Tetra		43	36	54	C	1.7	28	26	31	C	1.4
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		2.4	2	3.1		2.3	1.5	1.4	1.7	J	2
PCB-51	Tetra		21	17	26		2.3	14	13	16		2
PCB-52	Tetra		300	250	370	C	1.7	180	170	200	C	1.4
PCB-53	Tetra		65	54	82		2.3	40	36	44		2
PCB-54	Tetra		1.4	1.1	1.7	J	2.1	1.1	1	1.2	J	1.8
PCB-55	Tetra		2.4	2	3		1.3	2.2	2	2.3		1.1
PCB-56	Tetra		44	36	53	C	1.3	36	33	39	C	1.1
PCB-57	Tetra		1.3	1.1	1.6	J	1.3	0.78	0.72	0.85	J	1.1
PCB-58	Tetra		1.1	0.95	1.4	J	1.3	0.59	0.55	0.64	J	1.1
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		110	88	130	C	1.3	78	73	85	C	1.1
PCB-62	Tetra					U	0.72				U	0.52
PCB-63	Tetra		4.8	4	5.9		1.3	2.9	2.7	3.2		1.1
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.64				U	0.46
PCB-66	Tetra		78	65	96	C	1.3	54	50	59	C	1.1
PCB-67	Tetra		4.7	4	5.8		1.3	2.8	2.6	3		1.1
PCB-68	Tetra		2.3	1.9	2.8		1.3	1.2	1.1	1.3		1.1
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		3.5	2.9	4.4		1.7	1.7	1.6	1.9		1.4
PCB-74	Tetra		46	38	56		1.3	34	32	37		1.1
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		3	2.6	3.7		1	2.4	2.2	2.5		0.77
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.1	0.92	1.3		1	0.74	0.69	0.8	J	0.77
PCB-80	Tetra		0.83	0.7	1	J	1	1.1	1	1.2		0.77
PCB-81	Tetra		1.4	1.1	1.6		1	1.5	1.4	1.6		0.77
PCB-82	Penta		7.1	6	8.4		0.82	5.2	4.8	5.6		0.57
PCB-83	Penta		4.4	3.8	5.3	C	0.82	2.6	2.4	2.7	C	0.57
PCB-84	Penta		52	44	62	C	0.9	27	25	29	C	0.65
PCB-85	Penta		8.8	7.4	11	C	0.82	6	5.6	6.4	C	0.57
PCB-86	Penta					U	0.37				U	0.36
PCB-87	Penta		21	17	25	C	0.82	16	15	17	C	0.57
PCB-88	Penta					UC	0.4				UC	0.3
PCB-89	Penta		1.8	1.5	2.2		1	1.2	1.1	1.2		0.73
PCB-90	Penta		88	74	100	C	0.82	50	46	53	C	0.57
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.23				U	0.17
PCB-94	Penta		0.95	0.79	1.1	J	1	0.68	0.63	0.73	J	0.73
PCB-95	Penta		130	110	160		1	69	65	75		0.73
PCB-96	Penta		1.4	1.2	1.7		0.89	0.8	0.75	0.86		0.64
PCB-97	Penta		26	22	31		0.82	15	14	16		0.57
PCB-98	Penta					UC	0.27				UC	0.2
PCB-99	Penta		37	31	44		0.82	19	17	20		0.57
PCB-100	Penta		1.6	1.3	1.9		1	0.76	0.7	0.82		0.73
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		3.5	3	4.2		1	1.1	1	1.2		0.73
PCB-104	Penta	PRC										
PCB-105	Penta		10	8.6	12		0.67	6.4	5.9	6.8		0.45
PCB-106	Penta		34	29	40	C	0.67	20	18	21	C	0.45
PCB-107	Penta		3.3	2.8	3.9	C	0.67	1.7	1.6	1.8	C	0.45
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CD-S010				LDW-Y3-SU-ENR+AC-CA-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		34	32	38		33	75	73	200		33
PCB-2	Mono					U	1.9				U	2.8
PCB-3	Mono					U	2.3				U	3.1
PCB-4	Di		190	170	220		14	160	130	480		16
PCB-5	Di					U	2.9				U	5
PCB-6	Di		59	53	71		7.2	61	36	160		10
PCB-7	Di		9.2	8.2	11		7.2	8.9	5.3	24	J	10
PCB-8	Di		160	150	190		7.2	130	75	340		10
PCB-9	Di		11	9.9	13		7.2	17	9.9	45		10
PCB-10	Di		12	11	14	J	14				U	6.6
PCB-11	Di		2.9	2.5	3.4		3.9				UB	7.9
PCB-12	Di		2.4	2.1	2.8	J	3.9				U	4.1
PCB-13	Di		2.4	2.1	2.8	J	3.9	5.6	3	13	J	7.9
PCB-14	Di	PRC										
PCB-15	Di		19	17	23		3.9	19	10	44		7.9
PCB-16	Tri		97	85	120		4	120	65	280		8
PCB-17	Tri		200	170	240		4	210	110	480		8
PCB-18	Tri		480	420	570		4	540	290	1200		8
PCB-19	Tri		76	67	91		6.1	73	41	190		9.6
PCB-20	Tri		130	110	150	C	2.7	160	89	330	C	7
PCB-21	Tri					C020					C020	
PCB-22	Tri		68	59	81		2.7	82	44	170		7
PCB-23	Tri					U	0.92				U	2.6
PCB-24	Tri		24	21	29		4	24	12	55		8
PCB-25	Tri		30	26	36		2.7	48	26	97		7
PCB-26	Tri		53	46	63		2.7	84	45	170		7
PCB-27	Tri		18	16	22		4	22	12	50		8
PCB-28	Tri		210	190	250		2.7	270	150	550		7
PCB-29	Tri		2.2	1.9	2.6	J	2.7				U	2.5
PCB-30	Tri					U	1.6				U	3.6
PCB-31	Tri		190	160	220		2.7	280	150	570		7
PCB-32	Tri		150	130	180		4	150	80	350		8
PCB-33	Tri					C020					C020	
PCB-34	Tri		3	2.6	3.5		2.7	4.9	2.7	9.9	J	7
PCB-35	Tri		1.5	1.3	1.8	J	1.9				U L	2.4
PCB-36	Tri	PRC										
PCB-37	Tri		23	20	27		1.9	35	20	63	L	6.2
PCB-38	Tri		1.8	1.6	2.1	J	1.9				U L	2.3
PCB-39	Tri					U	0.69				U L	2.6
PCB-40	Tetra		28	25	33		1.6	69	40	120	L	6
PCB-41	Tetra		140	120	160	C	1.5	330	190	580	C L	5.9
PCB-42	Tetra		63	55	73	C	1.6	150	85	260	C L	6
PCB-43	Tetra		180	160	210	C	1.6	460	270	810	C L	6
PCB-44	Tetra		180	160	210		1.6	430	250	750	L	6
PCB-45	Tetra		46	40	53		2.1	86	48	160		6.5
PCB-46	Tetra		19	16	22		2.1	38	22	72		6.5
PCB-47	Tetra		62	54	73		1.6	150	85	260	L	6
PCB-48	Tetra		38	33	44	C	1.6	94	55	170	C L	6
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		1.7	1.5	2	J	2.1	5.2	2.9	9.8	J	6.5
PCB-51	Tetra		17	15	20		2.1	35	20	65		6.5
PCB-52	Tetra		260	220	300	C	1.6	670	390	1200	C L	6
PCB-53	Tetra		56	49	66		2.1	120	66	220		6.5
PCB-54	Tetra		1.4	1.2	1.7	J	2				U L	1.9
PCB-55	Tetra		2.3	2	2.6		1.2	12	6.7	20	L	5.6
PCB-56	Tetra		49	43	57	C	1.2	130	78	230	C L	5.6
PCB-57	Tetra		0.94	0.83	1.1	J	1.2	3.9	2.3	6.7	J L	5.6
PCB-58	Tetra					U	0.42				U L	1.8
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		110	98	130	C	1.2	320	190	560	C L	5.6
PCB-62	Tetra					U	0.59				U L	2.1
PCB-63	Tetra		4.4	3.9	5.1		1.2	14	8.4	25	L	5.6
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.52				U L	1.9
PCB-66	Tetra		80	70	93	C	1.2	220	130	390	C L	5.6
PCB-67	Tetra		4.2	3.7	4.9		1.2	13	7.6	23	L	5.6
PCB-68	Tetra		1.9	1.7	2.2		1.2	9.1	5.3	16	L	5.6
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2	1.7	2.3		1.6	8.5	4.9	15	L	6
PCB-74	Tetra		49	43	56		1.2	140	79	240	L	5.6
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		4	3.5	4.5		0.93	12	6.6	22	L	5.2
PCB-78	Tetra	PRC										
PCB-79	Tetra		1	0.9	1.2		0.93	5	2.8	9.2	J L	5.2
PCB-80	Tetra		1.6	1.4	1.9		0.93	10	5.9	19	L	5.2
PCB-81	Tetra		2.2	1.9	2.5		0.93	11	6.3	20	L	5.2
PCB-82	Penta		7.4	6.6	8.4		0.71	31	16	62	L	4.9
PCB-83	Penta		3.7	3.3	4.2	C	0.71	21	11	42	C L	4.9
PCB-84	Penta		43	38	49	C	0.8	210	110	400	C L	5
PCB-85	Penta		8.9	7.9	10	C	0.71	52	26	100	C L	4.9
PCB-86	Penta					U	0.44				U L	3.3
PCB-87	Penta		24	21	27	C	0.71	120	60	230	C L	4.9
PCB-88	Penta					UC	0.39				UC L	2.8
PCB-89	Penta		1.7	1.5	1.9		0.89	6.5	3.6	12	L	5.2
PCB-90	Penta		82	73	93	C	0.71	420	210	830	C L	4.9
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.22				U L	1.6
PCB-94	Penta		1	0.89	1.2		0.89	5.8	3.2	11	L	5.2
PCB-95	Penta		110	99	130		0.89	490	270	900	L	5.2
PCB-96	Penta		1.3	1.1	1.5		0.79	5.8	3.1	11	L	5
PCB-97	Penta		24	21	27		0.71	120	63	250	L	4.9
PCB-98	Penta					UC	0.26				UC L	1.9
PCB-99	Penta		32	28	36		0.71	160	83	320	L	4.9
PCB-100	Penta		1.4	1.2	1.6		0.89	8	4.4	15	L	5.2
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		2.5	2.2	2.9		0.89	13	7.1	24	L	5.2
PCB-104	Penta	PRC										
PCB-105	Penta		11	9.3	12		0.58	61	28	130	L	4.7
PCB-106	Penta		32	29	37	C	0.58	200	92	440	C L	4.7
PCB-107	Penta		3	2.6	3.3	C	0.58	20	9.4	45	C L	4.7
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO				LDW-Y3-SU-ENR+AC-CC-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		19	19	19	J	32	19	18	20	J	32
PCB-2	Mono					U	1.5				U	1.5
PCB-3	Mono					U	1.7				U	1.7
PCB-4	Di		54	53	59		13	94	88	110		13
PCB-5	Di					U	3				U	2.1
PCB-6	Di		22	20	26		7.5	36	30	45		7.6
PCB-7	Di					U	2.9	7.1	6.1	9	J	7.6
PCB-8	Di		56	50	66		7.5	95	81	120		7.6
PCB-9	Di					U	2.9	4.9	4.2	6.2	J	7.6
PCB-10	Di					U	4.6				U	3.3
PCB-11	Di					UB	5.3				UB	4.8
PCB-12	Di					U	2.3				U	1.4
PCB-13	Di					U	2.4				U	1.5
PCB-14	Di	PRC										
PCB-15	Di		8.6	7.4	10		5.3	13	11	17		4.8
PCB-16	Tri		75	64	90		5.4	100	83	130		4.9
PCB-17	Tri		100	87	120		5.4	150	130	190		4.9
PCB-18	Tri		250	210	300		5.4	380	320	480		4.9
PCB-19	Tri		30	27	36		6.7	53	45	68		6.6
PCB-20	Tri		84	72	99	C	4.7	110	91	140	C	3.8
PCB-21	Tri					C020					C020	
PCB-22	Tri		44	37	51		4.7	61	50	75		3.8
PCB-23	Tri					U	1.7				U	1.1
PCB-24	Tri		14	12	16		5.4	19	15	24		4.9
PCB-25	Tri		22	19	26		4.7	28	23	34		3.8
PCB-26	Tri		38	33	45		4.7	52	43	64		3.8
PCB-27	Tri		8.5	7.2	10		5.4	14	11	17		4.9
PCB-28	Tri		150	130	180		4.7	190	160	230		3.8
PCB-29	Tri					U	1.7	2	1.6	2.4	J	3.8
PCB-30	Tri					U	2.1				U	2
PCB-31	Tri		130	110	150		4.7	170	140	210		3.8
PCB-32	Tri		51	43	61		5.4	99	82	120		4.9
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.9	2.8	2.3	3.5	J	3.8
PCB-35	Tri					U	1.7				U	0.93
PCB-36	Tri	PRC										
PCB-37	Tri		20	17	23		4.3	22	18	26		3
PCB-38	Tri					U	1.5				U	0.87
PCB-39	Tri					U	1.7				U	0.98
PCB-40	Tetra		33	28	38		4.2	35	29	42		2.8
PCB-41	Tetra		160	140	190	C	4.1	160	140	200	C	2.7
PCB-42	Tetra		73	64	84	C	4.2	74	62	88	C	2.8
PCB-43	Tetra		210	190	250	C	4.2	220	180	260	C	2.8
PCB-44	Tetra		200	180	230		4.2	210	180	250		2.8
PCB-45	Tetra		40	34	47		4.4	48	40	59		3.3
PCB-46	Tetra		18	15	21		4.4	20	17	24		3.3
PCB-47	Tetra		75	65	86		4.2	71	60	86		2.8
PCB-48	Tetra		45	39	52	C	4.2	49	41	58	C	2.8
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		3.4	3	4	J	4.4	2.9	2.4	3.5	J	3.3
PCB-51	Tetra		17	14	19		4.4	20	16	24		3.3
PCB-52	Tetra		310	270	360	C	4.2	300	260	360	C	2.8
PCB-53	Tetra		47	41	55		4.4	58	48	70		3.3
PCB-54	Tetra					U	1.2	1.7	1.5	2.1	J	3.1
PCB-55	Tetra		6.7	5.8	7.7	L	4	4.8	4	5.7		2.4
PCB-56	Tetra		75	65	87	C L	4	64	54	77	C	2.4
PCB-57	Tetra					U L	1.1	1.4	1.1	1.6	J	2.4
PCB-58	Tetra					U L	1.2				U	1.1
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		170	150	190	C L	4	150	120	180	C	2.4
PCB-62	Tetra					U	1.3				U	1.4
PCB-63	Tetra		6.8	5.9	7.8	L	4	6.2	5.2	7.4		2.4
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	1.2				U	1.2
PCB-66	Tetra		120	100	140	C L	4	110	90	130	C	2.4
PCB-67	Tetra		7	6	8	L	4	6.2	5.2	7.5		2.4
PCB-68	Tetra		4.5	3.9	5.2	L	4	3.2	2.7	3.8		2.4
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.9	2.5	3.4		4.2	2.9	2.4	3.5		2.8
PCB-74	Tetra		72	62	83		4	64	53	76		2.4
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		7.8	6.7	9.2	L	3.9	5.9	4.9	7.2		2.1
PCB-78	Tetra	PRC										
PCB-79	Tetra		2.7	2.3	3.1	J L	3.9	1.9	1.6	2.3	J	2.1
PCB-80	Tetra		3.5	3	4.1	L	3.9	1.9	1.6	2.3		2.1
PCB-81	Tetra		6.6	5.7	7.7	L	3.9	3.5	2.9	4.2		2.1
PCB-82	Penta		20	17	24	L	3.8	14	11	18	L	1.8
PCB-83	Penta		11	8.9	13	C L	3.8	7.2	5.7	9.1	C L	1.8
PCB-84	Penta		110	95	130	C L	3.9	79	64	99	C L	1.9
PCB-85	Penta		25	21	30	C L	3.8	18	14	23	C L	1.8
PCB-86	Penta					U L	2				U L	1.1
PCB-87	Penta		65	55	78	C L	3.8	44	35	56	C L	1.8
PCB-88	Penta					U C L	2.2				U C L	0.69
PCB-89	Penta		3.5	3	4.1	J L	3.9	3.1	2.5	3.8	L	2.1
PCB-90	Penta		230	190	270	C L	3.8	150	120	190	C L	1.8
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	1.3				U L	0.39
PCB-94	Penta					U L	1.5				U L	0.47
PCB-95	Penta		260	220	310	L	3.9	180	150	220	L	2.1
PCB-96	Penta		3.6	3	4.2	J L	3.9	2.3	1.8	2.8	L	1.9
PCB-97	Penta		62	52	74	L	3.8	44	35	56	L	1.8
PCB-98	Penta					U C L	1.5				U C L	0.47
PCB-99	Penta		90	75	110	L	3.8	59	47	75	L	1.8
PCB-100	Penta		4.7	4	5.5	L	3.9	2.8	2.3	3.4	L	2.1
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		6.8	5.8	7.9	L	3.9	4.2	3.5	5.2	L	2.1
PCB-104	Penta	PRC										
PCB-105	Penta		36	30	45	L	3.8	21	17	28	L	1.7
PCB-106	Penta		110	93	140	C L	3.8	67	51	87	C L	1.7
PCB-107	Penta		11	8.7	13	C L	3.8	5.9	4.5	7.8	C L	1.7
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CA-S010				LDW-Y3-SU-ENR-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		20	18	21	J	36	31	29	35	J	37
PCB-2	Mono					U	1.8				U	1.6
PCB-3	Mono					U	1.9				U	1.7
PCB-4	Di		180	170	200		15	180	170	200		16
PCB-5	Di					U	3.5				U	3
PCB-6	Di		61	56	67		7.8	58	53	64		8.1
PCB-7	Di		6.6	6.1	7.2	J	7.8	7.1	6.5	7.9	J	8.1
PCB-8	Di		160	150	180		7.8	160	150	180		8.1
PCB-9	Di		12	11	13		7.8	13	12	14		8.1
PCB-10	Di		12	11	13	J	15	12	11	13	J	16
PCB-11	Di		2.5	2.3	2.7		4.1	2	1.8	2.2		4.3
PCB-12	Di		3	2.7	3.3	J	4.1				U	1.6
PCB-13	Di		2.6	2.4	2.8	J	4.1	2.2	2	2.4	J	4.3
PCB-14	Di	PRC										
PCB-15	Di		15	14	17		4.1	17	16	19		4.3
PCB-16	Tri		95	88	100		4.2	83	77	91		4.4
PCB-17	Tri		160	150	180		4.2	180	160	190		4.4
PCB-18	Tri		350	330	390		4.2	390	360	430		4.4
PCB-19	Tri		62	57	68		6.5	61	56	67		6.8
PCB-20	Tri		110	99	120	C	2.8	130	120	140	C	2.9
PCB-21	Tri					C020					C020	
PCB-22	Tri		58	53	63		2.8	63	58	69		2.9
PCB-23	Tri					U	1.1				U	1.2
PCB-24	Tri		18	17	20		4.2	18	17	20		4.4
PCB-25	Tri		31	29	34		2.8	36	33	39		2.9
PCB-26	Tri		60	55	65		2.8	63	58	68		2.9
PCB-27	Tri		13	12	15		4.2	15	14	16		4.4
PCB-28	Tri		160	150	170		2.8	220	200	240		2.9
PCB-29	Tri		1.8	1.7	2	J	2.8	2.2	2.1	2.4	J	2.9
PCB-30	Tri					U	1.6				U	1.4
PCB-31	Tri		190	170	200		2.8	210	200	230		2.9
PCB-32	Tri		100	96	110		4.2	130	120	140		4.4
PCB-33	Tri					C020					C020	
PCB-34	Tri		2.6	2.4	2.8	J	2.8	2.6	2.4	2.9	J	2.9
PCB-35	Tri		1.3	1.2	1.4	J	1.8	1.6	1.4	1.7	J	1.9
PCB-36	Tri	PRC										
PCB-37	Tri		18	16	19		1.8	16	15	18		1.9
PCB-38	Tri		1.8	1.6	1.9	J	1.8	2	1.8	2.1		1.9
PCB-39	Tri					U	0.71				U	0.73
PCB-40	Tetra		23	21	25		1.5	20	19	22		1.6
PCB-41	Tetra		100	97	110	C	1.4	90	84	96	C	1.5
PCB-42	Tetra		49	46	53	C	1.5	42	39	45	C	1.6
PCB-43	Tetra		170	150	180	C	1.5	130	120	140	C	1.6
PCB-44	Tetra		140	130	150		1.5	120	110	130		1.6
PCB-45	Tetra		37	35	40		2.1	36	34	39		2.2
PCB-46	Tetra		15	14	17		2.1	15	14	16		2.2
PCB-47	Tetra		52	48	56		1.5	42	39	46		1.6
PCB-48	Tetra		31	29	33	C	1.5	27	25	29	C	1.6
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		1.8	1.7	2	J	2.1	2	1.9	2.2	J	2.2
PCB-51	Tetra		14	13	15		2.1	12	12	14		2.2
PCB-52	Tetra		220	200	230	C	1.5	180	170	190	C	1.6
PCB-53	Tetra		42	39	46		2.1	40	37	43		2.2
PCB-54	Tetra		1.1	1	1.2	J	1.9	1.2	1.1	1.3	J	2
PCB-55	Tetra		2.4	2.2	2.6		1.1	1.7	1.5	1.8		1.2
PCB-56	Tetra		41	39	44	C	1.1	36	34	38	C	1.2
PCB-57	Tetra		0.88	0.82	0.94	J	1.1	0.64	0.59	0.68	J	1.2
PCB-58	Tetra		0.53	0.49	0.56	J	1.1	0.64	0.59	0.68	J	1.2
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		91	85	97	C	1.1	74	69	79	C	1.2
PCB-62	Tetra					U	0.45				U	0.64
PCB-63	Tetra		3.3	3.1	3.6		1.1	3	2.8	3.2		1.2
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.44				U	0.63
PCB-66	Tetra		69	65	74	C	1.1	54	50	58	C	1.2
PCB-67	Tetra		2.9	2.7	3.1		1.1	2.5	2.3	2.7		1.2
PCB-68	Tetra		1.5	1.4	1.6		1.1	1.2	1.1	1.3		1.2
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.7	2.5	3		1.5	1.9	1.8	2		1.6
PCB-74	Tetra		36	34	39		1.1	31	29	33		1.2
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		3.1	2.9	3.3		0.84	2.3	2.2	2.5		0.89
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.5	1.4	1.6		0.84	1	0.94	1.1		0.89
PCB-80	Tetra		0.84	0.79	0.89		0.84	1	0.94	1.1		0.89
PCB-81	Tetra		2.2	2	2.3		0.84	1.5	1.4	1.6		0.89
PCB-82	Penta		7.7	7.2	8.2		0.62	5.6	5.3	5.9		0.66
PCB-83	Penta		4.2	3.9	4.4	C	0.62	2.9	2.7	3	C	0.66
PCB-84	Penta		47	44	50	C	0.7	33	31	35	C	0.74
PCB-85	Penta		9.2	8.6	9.8	C	0.62	6.5	6.1	6.9	C	0.66
PCB-86	Penta					U	0.34				U	0.34
PCB-87	Penta		22	21	24	C	0.62	17	16	18	C	0.66
PCB-88	Penta					UC	0.24				UC	0.21
PCB-89	Penta		1.2	1.1	1.2		0.79	1.4	1.3	1.5		0.84
PCB-90	Penta		83	78	89	C	0.62	58	54	61	C	0.66
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.24				U	0.22
PCB-94	Penta		0.77	0.72	0.82	J	0.79	0.67	0.63	0.72	J	0.84
PCB-95	Penta		110	110	120		0.79	81	76	86		0.84
PCB-96	Penta		1.1	1.1	1.2		0.7	0.8	0.75	0.85		0.74
PCB-97	Penta		25	23	26		0.62	17	16	19		0.66
PCB-98	Penta					UC	0.26				UC	0.23
PCB-99	Penta		36	34	38		0.62	24	23	25		0.66
PCB-100	Penta		1.2	1.1	1.3		0.79	0.87	0.82	0.93		0.84
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		2.7	2.5	2.9		0.79	1.6	1.5	1.7		0.84
PCB-104	Penta	PRC										
PCB-105	Penta		11	10	12		0.49	7.5	7.1	7.9		0.52
PCB-106	Penta		33	31	35	C	0.49	22	20	23	C	0.52
PCB-107	Penta		3.3	3.1	3.5	C	0.49	0.46	0.43	0.49	C,J	0.52
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CC-S010				LDW-Y3-SU-ENR-CA-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		26	25	28	J	35	34	25	52	J	51
PCB-2	Mono					U	1.8				U	3.4
PCB-3	Mono					U	2				U	3.7
PCB-4	Di		300	280	330		15	200	140	290		24
PCB-5	Di					U	3.3				U	7.3
PCB-6	Di		82	76	89		7.6	64	47	90		13
PCB-7	Di		10	9.5	11		7.6	8.8	6.5	12	J	13
PCB-8	Di		220	210	240		7.6	190	140	270		13
PCB-9	Di		14	13	16		7.6	13	9.7	19	J	13
PCB-10	Di		17	16	18		15	13	9.2	19	J	24
PCB-11	Di		6.5	6	7.1		4.1				UB	7.7
PCB-12	Di		2.4	2.2	2.6	J	4.1				U	4.4
PCB-13	Di		4.2	3.9	4.6		4.1				U	4.1
PCB-14	Di	PRC										
PCB-15	Di		24	22	26		4.1	29	22	39		7.7
PCB-16	Tri		110	110	120		4.2	130	100	180		7.8
PCB-17	Tri		220	200	230		4.2	220	170	300		7.8
PCB-18	Tri		500	470	550		4.2	490	370	670		7.8
PCB-19	Tri		85	79	92		6.4	240	180	340		11
PCB-20	Tri		130	120	140	C	2.8	160	130	210	C	5.5
PCB-21	Tri					C020					C020	
PCB-22	Tri		75	70	81		2.8	81	63	110		5.5
PCB-23	Tri					U	1.1				U	2.3
PCB-24	Tri		22	21	24		4.2	23	17	31		7.8
PCB-25	Tri		34	32	37		2.8	43	33	56		5.5
PCB-26	Tri		55	52	60		2.8	74	58	98		5.5
PCB-27	Tri		18	17	20		4.2	19	14	25		7.8
PCB-28	Tri		210	200	230		2.8	280	220	370		5.5
PCB-29	Tri		2.4	2.2	2.6	J	2.8				U	2.2
PCB-30	Tri					U	2				U	3.3
PCB-31	Tri		230	220	250		2.8	270	210	360		5.5
PCB-32	Tri		150	140	170		4.2	160	120	210		7.8
PCB-33	Tri					C020					C020	
PCB-34	Tri		2.8	2.6	3.1		2.8				U	2.3
PCB-35	Tri					U	0.69				U	1.5
PCB-36	Tri	PRC										
PCB-37	Tri		21	20	23		1.9	26	21	33		3.8
PCB-38	Tri		2.3	2.1	2.4		1.9				U	1.4
PCB-39	Tri					U	0.69				U	1.5
PCB-40	Tetra		27	26	29		1.6	35	28	44		3.3
PCB-41	Tetra		110	100	120	C	1.5	150	120	180	C	3.1
PCB-42	Tetra		53	50	57	C	1.6	69	56	87	C	3.3
PCB-43	Tetra		150	140	160	C	1.6	210	170	270	C	3.3
PCB-44	Tetra		140	140	150		1.6	190	150	230		3.3
PCB-45	Tetra		46	43	49		2.1	57	45	74		4.3
PCB-46	Tetra		17	16	18		2.1	24	19	31		4.3
PCB-47	Tetra		51	47	54		1.6	64	52	80		3.3
PCB-48	Tetra		33	31	35	C	1.6	46	37	57	C	3.3
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		2.2	2	2.3		2.1	3.5	2.8	4.5	J	4.3
PCB-51	Tetra		15	14	16		2.1	20	16	26		4.3
PCB-52	Tetra		210	190	220	C	1.6	280	230	350	C	3.3
PCB-53	Tetra		47	44	51		2.1	61	48	78		4.3
PCB-54	Tetra		1.3	1.2	1.4	J	2				U	1.6
PCB-55	Tetra		2.3	2.2	2.5		1.2	2.7	2.2	3.3		2.5
PCB-56	Tetra		44	41	47	C	1.2	61	51	75	C	2.5
PCB-57	Tetra		0.99	0.93	1.1	J	1.2	1.5	1.2	1.8	J	2.5
PCB-58	Tetra		0.6	0.57	0.64	J	1.2				U	0.93
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		95	89	100	C	1.2	120	95	140	C	2.5
PCB-62	Tetra					U	0.47				U	1.2
PCB-63	Tetra		3.8	3.6	4		1.2	4.9	4	6		2.5
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.46				U	1.2
PCB-66	Tetra		69	65	73	C	1.2	88	73	110	C	2.5
PCB-67	Tetra		3.2	3	3.5		1.2	4.4	3.6	5.4		2.5
PCB-68	Tetra		1.6	1.5	1.7		1.2	2.7	2.2	3.3		2.5
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		3.8	3.6	4.1		1.6	3.7	3	4.7		3.3
PCB-74	Tetra		39	36	41		1.2	51	42	62		2.5
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		2.5	2.4	2.7		0.89	3.6	3	4.4		1.9
PCB-78	Tetra	PRC										
PCB-79	Tetra		1.2	1.1	1.2		0.89	2	1.6	2.4		1.9
PCB-80	Tetra		0.48	0.45	0.51	J	0.89	1.6	1.4	2	J	1.9
PCB-81	Tetra		1.7	1.6	1.8		0.89	3	2.5	3.7		1.9
PCB-82	Penta		7.8	7.3	8.2		0.67	11	9.1	13		1.5
PCB-83	Penta		3.5	3.3	3.7	C	0.67	4.9	4.2	5.9	C	1.5
PCB-84	Penta		41	39	44	C	0.75	62	52	74	C	1.6
PCB-85	Penta		9.2	8.7	9.8	C	0.67	12	10	15	C	1.5
PCB-86	Penta					U	0.34				U	1
PCB-87	Penta		23	22	24	C	0.67	30	25	36	C	1.5
PCB-88	Penta					UC	0.21				UC	0.61
PCB-89	Penta		1.5	1.4	1.5		0.84	2.2	1.8	2.6		1.8
PCB-90	Penta		75	71	79	C	0.67	110	93	130	C	1.5
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.22				U	0.61
PCB-94	Penta		0.71	0.67	0.75	J	0.84				U	0.64
PCB-95	Penta		93	88	99		0.84	140	120	170		1.8
PCB-96	Penta		1.1	1	1.1		0.74	1.4	1.2	1.7	J	1.6
PCB-97	Penta		22	21	23		0.67	32	27	38		1.5
PCB-98	Penta					UC	0.23				UC	0.65
PCB-99	Penta		29	27	30		0.67	45	38	53		1.5
PCB-100	Penta		1.1	1	1.2		0.84	2.2	1.9	2.7		1.8
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		1.5	1.4	1.6		0.84	3.4	2.9	4.1		1.8
PCB-104	Penta	PRC										
PCB-105	Penta		10	9.5	11		0.53	13	11	15	L	1.2
PCB-106	Penta		29	27	30	C	0.53	43	37	51	C L	1.2
PCB-107	Penta		2.4	2.3	2.6	C	0.53	0.96	0.82	1.1	C, J L	1.2
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO				LDW-Y3-SU-ENR-CC-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono		56	54	2200		32	18	11	120	J	52
PCB-2	Mono					U	2.2				U	3.6
PCB-3	Mono		4.2	2.6	52	J	12				U	3.8
PCB-4	Di		920	720	18000		16	140	63	770		27
PCB-5	Di					U	4.3				U	5.6
PCB-6	Di		380	210	3800		11	61	23	280		17
PCB-7	Di		37	21	370		11	9.8	3.8	44	J	17
PCB-8	Di		780	430	7800		11	190	74	870		17
PCB-9	Di		69	38	690		11	13	5.1	60	J	17
PCB-10	Di		51	40	1000		16				U	8.4
PCB-11	Di		7.4	2.8	36		8.1				UB	11
PCB-12	Di		15	5.8	74		8.1				U	3.8
PCB-13	Di		13	5	65		8.1				U	3.6
PCB-14	Di	PRC										
PCB-15	Di		75	28	360		8.1	33	12	120		11
PCB-16	Tri		560	210	2800		8.2	150	55	550		11
PCB-17	Tri		1000	390	5000		8.2	250	91	920		11
PCB-18	Tri		2500	940	12000		8.2	580	210	2100		11
PCB-19	Tri		350	170	2900		9.7	94	35	400		15
PCB-20	Tri		730	280	2500	C	7.2	250	95	800	C	8.7
PCB-21	Tri					C020					C020	
PCB-22	Tri		370	140	1200		7.2	120	47	390		8.7
PCB-23	Tri					U	2.4				U	4
PCB-24	Tri		91	35	450		8.2	31	11	110		11
PCB-25	Tri		210	80	710		7.2	57	21	180		8.7
PCB-26	Tri		430	160	1400		7.2	100	38	320		8.7
PCB-27	Tri		91	35	450		8.2	21	7.8	78		11
PCB-28	Tri		1200	450	3900		7.2	350	130	1100		8.7
PCB-29	Tri		13	4.9	43		7.2				U	3.8
PCB-30	Tri					U	2.9				U	3.9
PCB-31	Tri		1300	480	4200		7.2	410	150	1300		8.7
PCB-32	Tri		710	270	3500		8.2	210	75	750		11
PCB-33	Tri					C020					C020	
PCB-34	Tri		23	8.9	79		7.2				U	4
PCB-35	Tri		7.8	3.1	22	L	6.4	3.6	1.4	9.9	J L	6.7
PCB-36	Tri	PRC										
PCB-37	Tri		120	49	350	L	6.4	41	16	110	L	6.7
PCB-38	Tri		12	4.8	35	L	6.4	4.4	1.8	12	J L	6.7
PCB-39	Tri					U L	2				U L	2.9
PCB-40	Tetra		190	72	580	L	6.2	53	22	140	L	6
PCB-41	Tetra		830	300	2600	C L	6.1	250	110	640	C L	5.7
PCB-42	Tetra		410	150	1200	C L	6.2	110	48	300	C L	6
PCB-43	Tetra		1200	430	3400	C L	6.2	330	140	850	C L	6
PCB-44	Tetra		1100	400	3200	L	6.2	300	120	780	L	6
PCB-45	Tetra		300	120	870	L	6.7	88	35	260	L	7.3
PCB-46	Tetra		120	47	340	L	6.7	36	14	100	L	7.3
PCB-47	Tetra		360	130	1100	L	6.2	110	44	280	L	6
PCB-48	Tetra		240	89	720	C L	6.2	73	30	190	C L	6
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		13	5.1	37	L	6.7	6.4	2.5	18	J L	7.3
PCB-51	Tetra		89	36	260	L	6.7	34	13	99	L	7.3
PCB-52	Tetra		34	13	100	C L	6.2	450	190	1200	C L	6
PCB-53	Tetra		300	120	880	L	6.7	96	38	280	L	7.3
PCB-54	Tetra		7.7	3.1	22	L	6.5				U L	2.4
PCB-55	Tetra		14	4.1	54	L	5.8	6.6	2.9	16	L	4.9
PCB-56	Tetra		320	95	1200	C L	5.8	110	49	270	C L	4.9
PCB-57	Tetra		7.1	2.1	27	L	5.8				U L	1.6
PCB-58	Tetra		5.2	1.5	20	J L	5.8				U L	1.6
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		680	200	2600	C L	5.8	220	97	520	C L	4.9
PCB-62	Tetra					U L	1.7				U L	2
PCB-63	Tetra		33	9.8	130	L	5.8	9.3	4.1	22	L	4.9
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U L	1.7				U L	1.9
PCB-66	Tetra		550	160	2100	C L	5.8	160	73	390	C L	4.9
PCB-67	Tetra		23	6.9	90	L	5.8	7.8	3.5	19	L	4.9
PCB-68	Tetra		16	4.8	63	L	5.8	3.7	1.7	8.9	J L	4.9
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		28	10	84	L	6.2	7.1	2.9	18	L	6
PCB-74	Tetra		310	92	1200	L	5.8	94	42	220	L	4.9
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra		27	5.6	150	L	5.4	9.6	4.5	21	L	4
PCB-78	Tetra	PRC										
PCB-79	Tetra		10	2.1	56	L	5.4	3.2	1.5	7.1	J L	4
PCB-80	Tetra		11	2.3	62	L	5.4	3.7	1.7	8.1	L	4
PCB-81	Tetra		14	3	80	L	5.4	6.9	3.2	15	L	4
PCB-82	Penta		75	11	650	L	5.1	24	12	50	L	3.3
PCB-83	Penta		41	5.7	350	C L	5.1	10	5.1	22	C L	3.3
PCB-84	Penta		420	70	3000	C L	5.3	130	63	280	C L	3.6
PCB-85	Penta		88	12	760	C L	5.1	29	14	61	C L	3.3
PCB-86	Penta					U L	3.5				U L	2.5
PCB-87	Penta		200	28	1800	C L	5.1	70	34	150	C L	3.3
PCB-88	Penta					U C L	1.7				U C L	1
PCB-89	Penta		13	2.6	81	L	5.4	4.9	2.3	11	L	3.9
PCB-90	Penta		730	100	6400	C L	5.1	230	110	490	C L	3.3
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U L	1.7				U L	1
PCB-94	Penta		8.6	1.7	52	L	5.4	3.1	1.5	6.8	J L	3.9
PCB-95	Penta		860	170	5200	L	5.4	270	130	600	L	3.9
PCB-96	Penta		14	2.2	100	L	5.2	3.3	1.6	7.1	J L	3.6
PCB-97	Penta		240	33	2100	L	5.1	69	34	140	L	3.3
PCB-98	Penta					U C L	1.8				U C L	1.1
PCB-99	Penta		320	45	2800	L	5.1	92	45	190	L	3.3
PCB-100	Penta		8	1.5	48	L	5.4	3.9	1.8	8.5	J L	3.9
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		19	3.7	120	L	5.4	4.8	2.3	11	L	3.9
PCB-104	Penta	PRC										
PCB-105	Penta		100	10	1300	L	4.9	32	16	67	L	2.8
PCB-106	Penta		340	34	4300	C L	4.9	91	45	190	C L	2.8
PCB-107	Penta		35	3.5	450	C L	4.9	8.6	4.3	18	C L	2.8
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-LCB				LDW-Y3-LBS-WAT-S010-SPME					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	5.7				U	13
PCB-2	Mono					U	1.6				U	3.7
PCB-3	Mono					U	1.7				U	4.1
PCB-4	Di					U	9.9				U	14
PCB-5	Di					U	3.3				U	5.4
PCB-6	Di					U	3.4				U	5.7
PCB-7	Di					U	3.2				U	5.7
PCB-8	Di					U	3.4				U	5.6
PCB-9	Di					U	3.4				U	5.5
PCB-10	Di					U	6				U	11
PCB-11	Di		4.3	3.9	4.7		4.5				UB	6.1
PCB-12	Di					U	1.9				U	2.9
PCB-13	Di					U	1.8				U	2.9
PCB-14	Di	PRC										
PCB-15	Di					U	1.8				U	3.2
PCB-16	Tri					U	1.6				U	2.4
PCB-17	Tri					U	1.8				U	2.6
PCB-18	Tri					U	2				U	2.7
PCB-19	Tri					U	3.1				U	4.5
PCB-20	Tri					UC	0.85				UC	1.2
PCB-21	Tri					C020					C020	
PCB-22	Tri					U	0.79				U	1.1
PCB-23	Tri					U	0.83				U	1.1
PCB-24	Tri					U	1.4				U	2
PCB-25	Tri					U	0.84				U	1.2
PCB-26	Tri					U	0.82				U	1.1
PCB-27	Tri					U	1.4				U	2
PCB-28	Tri					U	0.71				U	1
PCB-29	Tri					U	0.8				U	1.1
PCB-30	Tri					U	1.3				U	1.9
PCB-31	Tri					U	0.81				U	1.1
PCB-32	Tri					U	1.6				U	2.2
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	0.83				U	1.2
PCB-35	Tri					U	0.54				U	0.75
PCB-36	Tri	PRC										
PCB-37	Tri					U	0.55				U	0.74
PCB-38	Tri					U	0.51				U	0.69
PCB-39	Tri					U	0.54				U	0.72
PCB-40	Tetra					U	0.63				U	1.3
PCB-41	Tetra					UC	0.38				UC	0.78
PCB-42	Tetra					UC	0.45				UC	0.95
PCB-43	Tetra					UC	0.51				UC	1
PCB-44	Tetra					U	0.56				U	1.2
PCB-45	Tetra					U	0.74				U	1.5
PCB-46	Tetra					U	0.76				U	1.6
PCB-47	Tetra		1.1	1	1.2	J	1.8				U	0.98
PCB-48	Tetra					UC	0.38				UC	0.81
PCB-49	Tetra					C043					C043	
PCB-50	Tetra					U	0.65				U	1.3
PCB-51	Tetra					U	0.62				U	1.3
PCB-52	Tetra		1.3	1.2	1.4	C,J	1.8	0.86	0.78	0.95	C,J	2.2
PCB-53	Tetra					U	0.66				U	1.4
PCB-54	Tetra					U	0.48				U	1
PCB-55	Tetra		0.35	0.32	0.37		1.4	0.094	0.086	0.1		1.6
PCB-56	Tetra					UC	0.59				UC	1.2
PCB-57	Tetra					U	0.28				U	0.55
PCB-58	Tetra					U	0.28				U	0.57
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra					UC	0.3				UC	0.6
PCB-62	Tetra					U	0.37				U	0.79
PCB-63	Tetra					U	0.27				U	0.55
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.37				U	0.79
PCB-66	Tetra					UC	0.27				UC	0.53
PCB-67	Tetra					U	0.28				U	0.54
PCB-68	Tetra					U	0.26				U	0.53
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		0.3	0.28	0.32	J	1.8	0.59	0.53	0.65	J	2.2
PCB-74	Tetra					U	0.28				U	0.54
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra					U	0.48				U	0.86
PCB-78	Tetra	PRC										
PCB-79	Tetra					U	0.41				U	0.81
PCB-80	Tetra					U	0.19				U	0.35
PCB-81	Tetra					U	0.38				U	0.77
PCB-82	Penta					U	0.36				U	0.49
PCB-83	Penta					UC	0.26				UC	0.38
PCB-84	Penta					UC	0.35				UC	0.52
PCB-85	Penta					UC	0.25				UC	0.36
PCB-86	Penta					U	0.37				U	0.49
PCB-87	Penta					UC	0.23				UC	0.34
PCB-88	Penta					UC	0.3				UC	0.51
PCB-89	Penta					U	0.38				U	0.6
PCB-90	Penta					UC	0.28				UC	0.4
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.31				U	0.57
PCB-94	Penta					U	0.32				U	0.57
PCB-95	Penta					U	0.3				U	0.49
PCB-96	Penta					U	0.2				U	0.35
PCB-97	Penta					U	0.32				U	0.46
PCB-98	Penta					UC	0.32				UC	0.57
PCB-99	Penta					U	0.25				U	0.37
PCB-100	Penta					U	0.27				U	0.47
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta					U	0.27				U	0.48
PCB-104	Penta	PRC										
PCB-105	Penta					U	0.15				U	0.23
PCB-106	Penta					UC	0.15				UC	0.22
PCB-107	Penta					UC	0.16				UC	0.24
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CA-S010				LDW-Y3-IN-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	6				U	6.6
PCB-2	Mono					U	1.7				U	1.8
PCB-3	Mono					U	1.8				U	1.9
PCB-4	Di		17	16	21		16	21	19	28		14
PCB-5	Di					U	3.3				U	2.9
PCB-6	Di		6.4	5.5	8.8	J	8.5	7.1	6.1	9.6	J	7.4
PCB-7	Di					U	3.1				U	2.7
PCB-8	Di		14	12	19		8.5	14	12	19		7.4
PCB-9	Di					U	3.2				U	2.8
PCB-10	Di					U	5.8				U	5.2
PCB-11	Di					UB J	5.1				UB	4.2
PCB-12	Di					U	2				U	1.6
PCB-13	Di					U	2				U	1.7
PCB-14	Di	PRC										
PCB-15	Di		3.2	2.5	4.5	J	5.1	3.6	2.9	4.9	J	4.2
PCB-16	Tri		9.2	7.2	13		5.2	9.2	7.4	13		4.2
PCB-17	Tri		17	13	24		5.2	14	11	19		4.2
PCB-18	Tri		41	32	59		5.2	34	27	46		4.2
PCB-19	Tri		6.7	5.6	9.4	J	7.3	6.8	5.7	9.3		6.2
PCB-20	Tri		13	9.9	19	C	3.9	12	9.6	16	C	3
PCB-21	Tri					C020					C020	
PCB-22	Tri		6.9	5.2	9.8		3.9	6.4	5	8.5		3
PCB-23	Tri					U	1.8				U	1.1
PCB-24	Tri		2.2	1.7	3.1	J	5.2	2.5	2	3.4	J	4.2
PCB-25	Tri		7.5	5.6	11		3.9	5.7	4.5	7.7		3
PCB-26	Tri		17	13	24		3.9	12	9.6	16		3
PCB-27	Tri		2.1	1.7	3	J	5.2	2.4	1.9	3.2	J	4.2
PCB-28	Tri		23	17	33		3.9	22	17	29		3
PCB-29	Tri					U	1.8				U	1.1
PCB-30	Tri					U	0.98				U	1.2
PCB-31	Tri		22	17	32		3.9	20	16	27		3
PCB-32	Tri		9.2	7.2	13		5.2	6.9	5.6	9.4		4.2
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	1.9				U	1.1
PCB-35	Tri					U	1.4				U	0.79
PCB-36	Tri	PRC										
PCB-37	Tri		3.5	2.6	4.8		3.1	3.1	2.5	4.1		2.2
PCB-38	Tri					U	1.4				U	0.8
PCB-39	Tri					U	1.4				U	0.76
PCB-40	Tetra		5.8	4.4	8		2.8	4.5	3.5	5.8		1.9
PCB-41	Tetra		25	19	35	C	2.7	18	14	23	C	1.8
PCB-42	Tetra		13	10	18	C	2.8	8.8	7	11	C	1.9
PCB-43	Tetra		52	39	71	C	2.8	33	26	43	C	1.9
PCB-44	Tetra		42	32	58		2.8	30	24	39		1.9
PCB-45	Tetra		7.7	5.7	11		3.3	5.3	4.2	7		2.4
PCB-46	Tetra		3.6	2.7	5		3.3	2.4	1.9	3.2		2.4
PCB-47	Tetra		14	11	20		2.8	11	8.8	14		1.9
PCB-48	Tetra		6.5	4.9	8.9	C	2.8	5.2	4.1	6.7	C	1.9
PCB-49	Tetra					C043					C043	
PCB-50	Tetra		1.6	1.2	2.2	J	3.3				U	0.81
PCB-51	Tetra		3.8	2.8	5.3		3.3	2.7	2.2	3.6		2.4
PCB-52	Tetra		86	65	120	C	2.8	56	45	73	C	1.9
PCB-53	Tetra		11	7.9	15		3.3	7.5	5.9	10		2.4
PCB-54	Tetra					U	0.88				U	0.59
PCB-55	Tetra		1.2	0.88	1.6		2.4	1.2	0.98	1.6		1.5
PCB-56	Tetra		9.5	7.2	13	C	2.4	7.6	6	9.7	C	1.5
PCB-57	Tetra					U	0.63				U	0.38
PCB-58	Tetra					U	0.64				U	0.38
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		25	19	34	C	2.4	19	15	24	C	1.5
PCB-62	Tetra					U	0.82				U	0.53
PCB-63	Tetra		1.1	0.83	1.5	J	2.4	1.1	0.88	1.4	J	1.5
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.79				U	0.51
PCB-66	Tetra		20	15	27	C	2.4	15	12	19	C	1.5
PCB-67	Tetra		1.2	0.92	1.6	J	2.4	1.2	0.96	1.5	J	1.5
PCB-68	Tetra		1.2	0.93	1.7	J	2.4	0.8	0.64	1	J	1.5
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		1.3	0.96	1.8	J	2.8	0.79	0.62	1	J	1.9
PCB-74	Tetra		9.8	7.4	13		2.4	7.8	6.2	10		1.5
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra					U	0.97	0.82	0.67	1	J	1.2
PCB-78	Tetra	PRC										
PCB-79	Tetra					U	0.92				U	0.43
PCB-80	Tetra					U	0.46				U	0.25
PCB-81	Tetra					U	0.91	0.83	0.67	1	J	1.2
PCB-82	Penta		4.5	3.5	5.9		1.7	2.8	2.3	3.5		0.96
PCB-83	Penta		3.1	2.4	4	C	1.7	1.6	1.3	2	C	0.96
PCB-84	Penta		33	26	44	C	1.9	17	14	21	C	1
PCB-85	Penta		6.5	5	8.5	C	1.7	4.3	3.5	5.3	C	0.96
PCB-86	Penta					U	0.75				U	0.38
PCB-87	Penta		16	13	21	C	1.7	9.4	7.6	12	C	0.96
PCB-88	Penta					UC	0.62				UC	0.35
PCB-89	Penta		1.1	0.81	1.4	J	2				U	0.45
PCB-90	Penta		51	39	66	C	1.7	29	24	36	C	0.96
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.65				U	0.36
PCB-94	Penta					U	0.69				U	0.38
PCB-95	Penta		76	58	100		2	43	34	53		1.1
PCB-96	Penta					U	0.45				U	0.24
PCB-97	Penta		15	12	20		1.7	8.6	7	11		0.96
PCB-98	Penta					UC	0.63				UC	0.35
PCB-99	Penta		23	18	30		1.7	13	11	16		0.96
PCB-100	Penta		1.4	1.1	1.9	J	2	0.99	0.8	1.2	J	1.1
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta		1.4	1.1	1.9	J	2	0.79	0.64	0.99	J	1.1
PCB-104	Penta	PRC										
PCB-105	Penta		7.2	5.5	9.4	L	1.6	4.6	3.8	5.7		0.8
PCB-106	Penta		23	18	30	C L	1.6	15	12	18	C	0.8
PCB-107	Penta		2	1.6	2.6	C L	1.6	1.3	1	1.6	C	0.8
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010				LDW-Y3-IN-ENR-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	5.8				U	6.9
PCB-2	Mono					U	1.6				U	1.7
PCB-3	Mono					U	1.7				U	1.8
PCB-4	Di		13	12	15	J	15	22	22	26		15
PCB-5	Di					U	2.8				U	3
PCB-6	Di		4.2	3.8	5.4	J	7.9	7	6.4	9.8	J	7.7
PCB-7	Di					U	2.6				U	2.8
PCB-8	Di		10	9.3	13		7.9	20	18	28		7.7
PCB-9	Di					U	2.7				U	2.9
PCB-10	Di					U	5.1				U	5.6
PCB-11	Di					UB J	4.6	0.65	0.5	1		4.9
PCB-12	Di					U	1.6				U	1.9
PCB-13	Di					U	1.7				U	1.9
PCB-14	Di	PRC										
PCB-15	Di		2.6	2.1	3.4	J	4.6	5.3	4.1	8.2		4.9
PCB-16	Tri		5.1	4.2	6.9		4.7	9.5	7.3	15		5
PCB-17	Tri		10	8.3	13		4.7	17	13	26		5
PCB-18	Tri		25	20	33		4.7	43	33	67		5
PCB-19	Tri		4.7	4.1	6.2	J	6.7	7.6	6.7	11		6.6
PCB-20	Tri		9.9	7.9	13	C	3.5	17	12	26	C	4.1
PCB-21	Tri					C020					C020	
PCB-22	Tri		5.5	4.4	7.3		3.5	11	7.6	17		4.1
PCB-23	Tri					U	0.89				U	1.7
PCB-24	Tri					U	1.4	2.9	2.3	4.6	J	5
PCB-25	Tri		3.9	3.1	5.2		3.5	8.5	6	13		4.1
PCB-26	Tri		8.7	6.9	12		3.5	19	14	30		4.1
PCB-27	Tri					U	1.3	3.1	2.4	4.8	J	5
PCB-28	Tri		17	13	22		3.5	31	22	48		4.1
PCB-29	Tri					U	0.91				U	1.7
PCB-30	Tri					U	1.3				U	1.5
PCB-31	Tri		16	13	22		3.5	29	21	46		4.1
PCB-32	Tri		6.9	5.7	9.2		4.7	9.6	7.4	15		5
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	0.93				U	1.8
PCB-35	Tri					U	0.7				U	1.6
PCB-36	Tri	PRC										
PCB-37	Tri		2.7	2.1	3.5		2.7	6.1	4.2	9.1		3.7
PCB-38	Tri					U	0.71				U	1.6
PCB-39	Tri					U	0.68				U	1.5
PCB-40	Tetra		3.8	3.1	5		2.4	7.9	5.5	12		3.6
PCB-41	Tetra		16	13	21	C	2.3	38	27	56	C	3.5
PCB-42	Tetra		8.3	6.6	11	C	2.4	18	13	27	C	3.6
PCB-43	Tetra		30	24	39	C	2.4	70	49	100	C	3.6
PCB-44	Tetra		24	19	31		2.4	56	39	83		3.6
PCB-45	Tetra		4.7	3.8	6.2		2.9	9.4	6.5	14		3.8
PCB-46	Tetra		2.3	1.8	3	J	2.9	4.3	3	6.5		3.8
PCB-47	Tetra		11	8.8	14		2.4	24	17	36		3.6
PCB-48	Tetra		4	3.2	5.1	C	2.4	8.6	6	13	C	3.6
PCB-49	Tetra					C043					C043	
PCB-50	Tetra					U	0.95				U	1.3
PCB-51	Tetra		2.2	1.7	2.8	J	2.9	3.7	2.6	5.6	J	3.8
PCB-52	Tetra		46	36	59	C	2.4	120	84	180	C	3.6
PCB-53	Tetra		7.2	5.7	9.5		2.9	14	10	22		3.8
PCB-54	Tetra					U	0.71				U	0.99
PCB-55	Tetra		1.2	0.97	1.5		2.1	1.9	1.3	2.8		3.4
PCB-56	Tetra		8	6.4	10	C	2.1	19	13	28	C	3.4
PCB-57	Tetra					U	0.5				U	0.88
PCB-58	Tetra					U	0.51				U	0.9
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		17	13	21	C	2.1	44	31	64	C	3.4
PCB-62	Tetra					U	0.66				U	1
PCB-63	Tetra		1.2	0.93	1.5	J	2.1	2.2	1.5	3.2	J	3.4
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	0.63				U	0.97
PCB-66	Tetra		14	11	17	C	2.1	37	26	53	C	3.4
PCB-67	Tetra		0.92	0.74	1.2	J	2.1	2.7	1.9	3.9	J	3.4
PCB-68	Tetra		1.1	0.87	1.4	J	2.1	2.4	1.7	3.6	J	3.4
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		0.61	0.48	0.78	J	2.4	1.7	1.2	2.6		3.6
PCB-74	Tetra		7.3	5.8	9.2		2.1	18	12	26		3.4
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra					U	0.54	2.6	1.8	3.8	J L	3.4
PCB-78	Tetra	PRC										
PCB-79	Tetra					U	0.5				U L	1.2
PCB-80	Tetra		0.59	0.48	0.74	J	1.8				U L	0.72
PCB-81	Tetra					U	0.49	1.9	1.3	2.8	J L	3.4
PCB-82	Penta		3.2	2.6	4		1.5	9.2	6.3	14	L	3.3
PCB-83	Penta		2.1	1.7	2.6	C	1.5	5.9	4	8.8	C L	3.3
PCB-84	Penta		18	15	23	C	1.6	59	40	86	C L	3.3
PCB-85	Penta		4.3	3.5	5.4	C	1.5	15	10	22	C L	3.3
PCB-86	Penta					U	0.68				U L	1.5
PCB-87	Penta		9.7	7.8	12	C	1.5	32	22	48	C L	3.3
PCB-88	Penta					UC	0.48				UC L	1
PCB-89	Penta					U	0.76				U L	1.5
PCB-90	Penta		32	26	40	C	1.5	100	70	150	C L	3.3
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	0.5				U L	1.1
PCB-94	Penta					U	0.52				U L	1.1
PCB-95	Penta		42	34	52		1.7	140	100	210	L	3.4
PCB-96	Penta					U	0.34				U L	0.78
PCB-97	Penta		9.5	7.7	12		1.5	30	21	45	L	3.3
PCB-98	Penta					UC	0.48				UC L	1
PCB-99	Penta		14	11	18		1.5	47	32	70	L	3.3
PCB-100	Penta					U	0.44	2.9	2	4.2	J L	3.4
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta					U	0.44	2.8	1.9	4.1	J L	3.4
PCB-104	Penta	PRC										
PCB-105	Penta		5.8	4.6	7.4	L	1.4	19	13	29	L	3.3
PCB-106	Penta		17	13	21	C L	1.4	62	41	94	C L	3.3
PCB-107	Penta		1.7	1.3	2.1	C L	1.4	4.9	3.2	7.5	C L	3.3
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CC-S010				LDW-Y3-IN-ENR-CD-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-1	Mono					U	14				U	8
PCB-2	Mono					U	4.2				U	2.1
PCB-3	Mono					U	4.4				U	2.2
PCB-4	Di		37	32	62		17	27	26	42		13
PCB-5	Di					U	5.8				U	3.2
PCB-6	Di		13	10	23		9.8	7.2	6.3	12		6.7
PCB-7	Di					U	5.4				U	2.9
PCB-8	Di		26	20	45		9.8	16	14	26		6.7
PCB-9	Di					U	5.6				U	3
PCB-10	Di					U	9.7				U	5.6
PCB-11	Di					UB	6	0.58	0.44	0.9		4.2
PCB-12	Di					U	3.5				U	2
PCB-13	Di					U	3.6				U	2
PCB-14	Di	PRC										
PCB-15	Di		8.3	5.7	14		6	4.9	3.7	7.7		4.2
PCB-16	Tri		13	8.8	22		6.1	8.3	6.3	13		4.3
PCB-17	Tri		26	18	45		6.1	17	13	27		4.3
PCB-18	Tri		64	44	110		6.1	43	32	67		4.3
PCB-19	Tri		14	10	24		8.4	7.8	6.5	13		5.8
PCB-20	Tri		24	16	40	C	4.5	16	12	24	C	3.4
PCB-21	Tri					C020					C020	
PCB-22	Tri		14	9.7	24		4.5	10	7.4	15		3.4
PCB-23	Tri					U	2				U	1.2
PCB-24	Tri		6.1	4.2	10		6.1	3.9	3	6.1	J	4.3
PCB-25	Tri		13	8.8	22		4.5	9.7	7.2	14		3.4
PCB-26	Tri		27	18	45		4.5	19	14	27		3.4
PCB-27	Tri		4.6	3.2	7.9	J	6.1	3.5	2.7	5.5	J	4.3
PCB-28	Tri		42	29	70		4.5	33	24	48		3.4
PCB-29	Tri					U	2.1				U	1.3
PCB-30	Tri					U	3.2				U	1.8
PCB-31	Tri		40	27	65		4.5	30	22	44		3.4
PCB-32	Tri		19	13	32		6.1	11	8.3	17		4.3
PCB-33	Tri					C020					C020	
PCB-34	Tri					U	2.1				U	1.3
PCB-35	Tri					U	1.6				U	1.1
PCB-36	Tri	PRC										
PCB-37	Tri		9.9	6.7	16		3.5	6.2	4.5	8.7		2.9
PCB-38	Tri					U	1.6				U	1.1
PCB-39	Tri					U	1.5				U	1
PCB-40	Tetra		8.9	6.1	14		3.1	6.4	4.5	9.3		2.7
PCB-41	Tetra		37	26	57	C	3	32	22	47	C	2.6
PCB-42	Tetra		20	14	31	C	3.1	15	11	22	C	2.7
PCB-43	Tetra		80	55	120	C	3.1	58	41	84	C	2.7
PCB-44	Tetra		65	44	100		3.1	47	33	68		2.7
PCB-45	Tetra		14	9.2	22		3.8	9	6.7	13		3
PCB-46	Tetra		6	4	9.5		3.8	4.3	3.2	6		3
PCB-47	Tetra		27	18	42		3.1	21	15	30		2.7
PCB-48	Tetra		9.4	6.4	15	C	3.1	7.7	5.5	11	C	2.7
PCB-49	Tetra					C043					C043	
PCB-50	Tetra					U	1.7	2.5	1.8	3.5	J	3
PCB-51	Tetra		5.1	3.5	8.2		3.8	4	3	5.7		3
PCB-52	Tetra		130	87	200	C	3.1	98	69	140	C	2.7
PCB-53	Tetra		18	12	29		3.8	12	9.2	18		3
PCB-54	Tetra					U	1.3				U	0.98
PCB-55	Tetra		3.4	2.4	5.1		2.6	1.9	1.2	3.1		2.5
PCB-56	Tetra		17	11	25	C	2.6	15	9.9	25	C	2.5
PCB-57	Tetra					U	0.87	1.1	0.72	1.8	J	2.5
PCB-58	Tetra					U	0.89				U	0.8
PCB-59	Tetra					C042					C042	
PCB-60	Tetra					C056					C056	
PCB-61	Tetra		40	28	60	C	2.6	36	23	58	C	2.5
PCB-62	Tetra					U	1.2				U	0.96
PCB-63	Tetra		2.3	1.6	3.4	J	2.6	1.8	1.1	2.8	J	2.5
PCB-64	Tetra					C041					C041	
PCB-65	Tetra					U	1.1				U	0.92
PCB-66	Tetra		33	23	49	C	2.6	29	19	46	C	2.5
PCB-67	Tetra		2.7	1.9	4.1		2.6	2	1.3	3.3	J	2.5
PCB-68	Tetra		2.1	1.5	3.2	J	2.6	1.7	1.1	2.8	J	2.5
PCB-69	Tetra					C052					C052	
PCB-70	Tetra					C061					C061	
PCB-71	Tetra					C041					C041	
PCB-72	Tetra					C041					C041	
PCB-73	Tetra		2.3	1.5	3.5		3.1	1.3	0.91	1.9		2.7
PCB-74	Tetra		16	11	23		2.6	15	9.7	24		2.5
PCB-75	Tetra					C048					C048	
PCB-76	Tetra					C066					C066	
PCB-77	Tetra					U	1.1	1.6	0.91	3	J L	2.3
PCB-78	Tetra	PRC										
PCB-79	Tetra					U	1				U L	0.76
PCB-80	Tetra		1	0.71	1.4	J	2.2	0.9	0.51	1.7	J L	2.3
PCB-81	Tetra					U	1.1	1.3	0.71	2.3	J L	2.3
PCB-82	Penta		6.2	4.5	8.8	L	1.8	5.4	2.6	12	L	2.1
PCB-83	Penta		3.9	2.8	5.5	C L	1.8	4	1.9	8.9	C L	2.1
PCB-84	Penta		38	27	54	C	1.9	38	20	79	C L	2.2
PCB-85	Penta		9.8	7	14	C L	1.8	8.7	4.1	19	C L	2.1
PCB-86	Penta					U L	1.5				U L	1.2
PCB-87	Penta		20	14	28	C L	1.8	20	9.4	44	C L	2.1
PCB-88	Penta					UC	1.1				UC L	0.77
PCB-89	Penta					U	1.7				U L	1.3
PCB-90	Penta		64	46	90	C L	1.8	64	31	140	C L	2.1
PCB-91	Penta					C088					C088	
PCB-92	Penta					C084					C084	
PCB-93	Penta					U	1.2				U L	0.8
PCB-94	Penta					U	1.2				U L	0.84
PCB-95	Penta		100	73	150		2.1	94	51	180	L	2.2
PCB-96	Penta					U	0.79				U L	0.57
PCB-97	Penta		19	14	27	L	1.8	19	9.2	43	L	2.1
PCB-98	Penta					UC	1.1				UC L	0.78
PCB-99	Penta		29	21	41	L	1.8	30	14	67	L	2.1
PCB-100	Penta					U	1	2.3	1.2	4.3	L	2.2
PCB-101	Penta					C090					C090	
PCB-102	Penta					C098					C098	
PCB-103	Penta					U	1	2.2	1.2	4.3	J L	2.2
PCB-104	Penta	PRC										
PCB-105	Penta		11	7.9	15	L	1.6	12	4.9	31	L	2
PCB-106	Penta		32	23	45	C L	1.6	37	15	94	C L	2
PCB-107	Penta		3.7	2.6	5.1	C L	1.6	3.5	1.4	8.9	C L	2
PCB-108	Penta					C107					C107	

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CA-S010				LDW-Y3-SC-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	1				U L	1.4
PCB-110	Penta		86	59	130	L	2.4	110	84	140	L	2.9
PCB-111	Penta		1.9	1.3	2.9	C,J L	2.3				U C L	1.4
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	1.1				U L	1.4
PCB-114	Penta		2	1.3	2.9	J L	2.2	1.9	1.5	2.6	J L	2.9
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		4	2.7	5.9	L	2.4	3.9	3	5	L	2.9
PCB-120	Penta					U L	0.88				U L	1.2
PCB-121	Penta	PRC										
PCB-122	Penta					U L	1.1				U L	1.2
PCB-123	Penta		1.8	1.2	2.7	J L	2.2	2.2	1.7	3	J L	2.9
PCB-124	Penta		4	2.7	5.9	L	2.2	4.6	3.4	6.1	L	2.9
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	1.1				U L	1.3
PCB-127	Penta					U L	1.1				U L	1.3
PCB-128	Hexa		8.3	5.3	13	C L	1.9	13	8.5	21	C L	2.9
PCB-129	Hexa		3.2	2.1	5	L	2	5.8	3.9	8.8	L	2.9
PCB-130	Hexa		4.3	2.8	6.6	L	2	6.8	4.5	10	L	2.9
PCB-131	Hexa					U B C L	2				U B C L	2.9
PCB-132	Hexa		26	17	40	C L	2	36	24	53	C L	2.9
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		6.3	4.1	9.5	C L	2	8	5.5	12	C L	2.9
PCB-135	Hexa		16	11	24	L	2	21	15	30	L	2.9
PCB-136	Hexa		19	13	30	L	2	28	19	43	L	2.9
PCB-137	Hexa		4.2	2.7	6.5	L	2	3.3	2.2	5	L	2.9
PCB-138	Hexa		73	48	110	C L	2	100	67	150	C L	2.9
PCB-139	Hexa		100	66	150	C L	2	120	84	180	C L	2.9
PCB-140	Hexa					U L	1.2				U L	1.5
PCB-141	Hexa		15	9.5	23	L	2	19	13	29	L	2.9
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		6.4	4.3	9.8	L	2	8.4	5.8	12	L	2.9
PCB-145	Hexa					U L	0.85				U L	1.6
PCB-146	Hexa		15	9.4	23	C L	2	20	13	30	C L	2.9
PCB-147	Hexa		6.6	4.4	10	L	2	3	2.1	4.3	L	2.9
PCB-148	Hexa					U L	1				U L	1.9
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.83				U L	1.6
PCB-151	Hexa		33	22	50	L	2	40	27	57	L	2.9
PCB-152	Hexa					U L	0.84				U L	1.6
PCB-153	Hexa		88	57	140	L	2	100	69	160	L	2.9
PCB-154	Hexa		8	5.3	12	L	2	4.3	3	6.3	L	2.9
PCB-155	Hexa	PRC										
PCB-156	Hexa		4.6	2.9	7.4	L	1.9	7.4	4.6	12	L	2.9
PCB-157	Hexa		1.5	0.95	2.4	J L	1.9				U L	1.2
PCB-158	Hexa		7	4.6	11	C L	2	10	6.8	16	C L	2.9
PCB-159	Hexa					U L	0.81	2.2	1.4	3.5	J L	2.9
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.92				U L	1.2
PCB-167	Hexa		2.7	1.7	4.4	L	1.9	3.4	2.1	5.4	L	2.9
PCB-168	Hexa					U L	0.95				U L	1.2
PCB-169	Hexa					U L	0.82				U L	1.1
PCB-170	Hepta		11	5.9	19	L	1.7	18	9.7	35	L	3.1
PCB-171	Hepta		4.9	2.9	8.5	L	1.7	6.8	3.8	12	L	3
PCB-172	Hepta		3	1.7	5.3	L	1.7	6.2	3.3	12	L	3.1
PCB-173	Hepta					U L	0.98				U L	1.9
PCB-174	Hepta		15	8.6	25	L	1.7	22	12	40	L	3
PCB-175	Hepta					U L	0.87				U L	1.6
PCB-176	Hepta		2.5	1.4	4.6	L	1.7	5.5	2.9	10	L	3.1
PCB-177	Hepta		13	7.7	23	L	1.7	18	10	33	L	3
PCB-178	Hepta		5.4	3.2	9.4	L	1.7	8.6	4.8	16	L	3
PCB-179	Hepta		9.6	5.4	17	L	1.7	17	8.9	32	L	3.1
PCB-180	Hepta		31	17	55	L	1.7	48	25	90	L	3.1
PCB-181	Hepta					U L	0.89				U L	1.7
PCB-182	Hepta		26	15	45	C L	1.7	39	21	69	C L	3
PCB-183	Hepta		11	6.4	19	L	1.7	21	11	37	L	3
PCB-184	Hepta	PRC										
PCB-185	Hepta		2.6	1.5	4.5	L	1.7				U L	1.6
PCB-186	Hepta					U L	0.64				U L	1.3
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.71				U L	1.4
PCB-189	Hepta					U L	0.55				U L	1.1
PCB-190	Hepta		2.7	1.5	4.9	L	1.7	4.1	2.2	7.7	L	3.1
PCB-191	Hepta					U L	0.62				U L	1.2
PCB-192	Hepta	PRC										
PCB-193	Hepta		1.8	1	3.2	L	1.7				U L	1.3
PCB-194	Octa		3.8	1.8	8.2	L	1.4	6.7	2.8	16	L	3.2
PCB-195	Octa		1.7	0.8	3.5	L	1.5	4.4	1.9	10	L	3.2
PCB-196	Octa		5.5	2.7	11	C L	1.5	10	4.5	23	C L	3.2
PCB-197	Octa		0.93	0.43	2.1	L	1.4	0.25	0.1	0.6	L	3.2
PCB-198	Octa					U L	1.3				U L	2.5
PCB-199	Octa		4.5	2.1	9.9	L	1.4	9.7	4	24	L	3.2
PCB-200	Octa					U L	0.86				U L	1.8
PCB-201	Octa					U L	0.92				U L	1.9
PCB-202	Octa					U L	0.94				U L	2
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.46				U L	1.6
PCB-206	Nona					U L	1.1				U L	2.1
PCB-207	Nona		0.059	0.022	0.16	L	1.2	1.4	0.46	4.4	L	3.4
PCB-208	Nona					U L	0.56				U L	1.6
PCB-209	Deca		0.82	0.24	2.8	L	1.1	3.5	0.9	14	L	3.6
Total Detected PCB Congeners			3700	2500	5900			3300	2500	4600		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CC-S010				LDW-Y3-SC-ENR+AC-CA-S010-LONG					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.7				U L	3.4
PCB-110	Penta		58	48	72		1.2	250	93	670	L	8.5
PCB-111	Penta		1.1	0.91	1.4	C	1.1	7	2.4	21	C,J,L	9.1
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.75				U L	3.6
PCB-114	Penta					U	0.51	6.7	2.1	22	J L	9.7
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		2.3	1.9	2.8		1.2	9	3.4	24	L	8.5
PCB-120	Penta					U	0.54				U L	3.5
PCB-121	Penta	PRC										
PCB-122	Penta					U	0.54				U L	4.5
PCB-123	Penta					U	0.57				U L	5.1
PCB-124	Penta		2	1.7	2.5		1	14	4.4	46	L	9.7
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.48				U L	5.6
PCB-127	Penta					U L	0.45				U L	5.6
PCB-128	Hexa		3.9	3.1	4.9	C L	0.61	60	10	360	C L	14
PCB-129	Hexa		1.9	1.5	2.3	L	0.66	25	4.6	130	L	13
PCB-130	Hexa		1.9	1.5	2.4	L	0.66	24	4.6	130	L	13
PCB-131	Hexa					UB C L	0.7				UB C L	13
PCB-132	Hexa		12	10	15	C L	0.7	130	27	660	C L	13
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		3.4	2.8	4.2	C L	0.75	34	7.5	160	C L	12
PCB-135	Hexa		6.5	5.3	8	L	0.75	84	19	390	L	12
PCB-136	Hexa		8.4	6.8	10	L	0.67	130	25	710	L	13
PCB-137	Hexa		1.4	1.2	1.8	L	0.66	19	3.6	100	L	13
PCB-138	Hexa		30	24	37	C L	0.66	410	77	2200	C L	13
PCB-139	Hexa		40	33	50	C L	0.75	460	100	2100	C L	12
PCB-140	Hexa					U L	0.58				U L	6.9
PCB-141	Hexa		6	4.9	7.5	L	0.66	83	16	450	L	13
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		2.8	2.3	3.5	L	0.75	31	6.9	140	L	12
PCB-145	Hexa					U L	0.38				U L	7.9
PCB-146	Hexa		5.4	4.4	6.7	C L	0.66	74	14	400	C L	13
PCB-147	Hexa		0.67	0.55	0.82	J L	0.75	17	3.8	79	L	12
PCB-148	Hexa					U L	0.6				U L	8.4
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.37				U L	7.7
PCB-151	Hexa		13	11	16	L	0.75	160	36	750	L	12
PCB-152	Hexa					U L	0.38				U L	7.9
PCB-153	Hexa		31	25	39	L	0.66	450	84	2400	L	13
PCB-154	Hexa		1.7	1.4	2.1	L	0.75	29	6.3	130	L	12
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.8	1.4	2.3	L	0.57	34	5.3	220	L	15
PCB-157	Hexa					U L	0.33	11	1.7	70	J L	15
PCB-158	Hexa		2.6	2.1	3.3	C L	0.66	42	7.9	230	C L	13
PCB-159	Hexa					U L	0.32	12	1.9	79	J L	15
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.4				U L	6
PCB-167	Hexa		0.96	0.76	1.2	L	0.57	18	2.9	120	L	15
PCB-168	Hexa					U L	0.41				U L	6.2
PCB-169	Hexa					U L	0.3				U L	7.1
PCB-170	Hepta		2.4	1.8	3.3	L	0.37	120	10	1300	L	21
PCB-171	Hepta		1.8	1.4	2.4	L	0.41	47	4.9	460	L	19
PCB-172	Hepta		1.2	0.88	1.6	L	0.37	73	6.6	830	L	21
PCB-173	Hepta					U L	0.28				U L	11
PCB-174	Hepta		4.9	3.8	6.5	L	0.41	160	17	1500	L	19
PCB-175	Hepta					U L	0.25				U L	9.7
PCB-176	Hepta		0.7	0.52	0.95	L	0.36	31	2.7	360	L	22
PCB-177	Hepta		3.3	2.5	4.4	L	0.41	94	9.8	900	L	19
PCB-178	Hepta		1.7	1.3	2.3	L	0.41	39	4	370	L	19
PCB-179	Hepta		2.2	1.7	3	L	0.36	97	8.4	1100	L	22
PCB-180	Hepta		6	4.5	8.1	L	0.37	280	25	3200	L	21
PCB-181	Hepta					U L	0.25				U L	9.9
PCB-182	Hepta		6.2	4.7	8.2	C L	0.41	190	20	1900	C L	19
PCB-183	Hepta		3.2	2.5	4.3	L	0.41	120	12	1200	L	19
PCB-184	Hepta	PRC										
PCB-185	Hepta					U L	0.25				U L	9.5
PCB-186	Hepta					U L	0.16				U L	8.3
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.18				U L	8.9
PCB-189	Hepta					U L	0.14				U L	8.4
PCB-190	Hepta		0.84	0.63	1.1	L	0.37	30	2.7	340	L	21
PCB-191	Hepta					U L	0.18				U L	7.8
PCB-192	Hepta	PRC										
PCB-193	Hepta		0.6	0.45	0.82	L	0.37	22	2	250	L	21
PCB-194	Octa		0.7	0.46	1.1	L	0.21	63	2.6	1500	L	34
PCB-195	Octa					U L	0.22	33	1.6	690	L	31
PCB-196	Octa		0.9	0.61	1.3	C L	0.23	110	5.1	2200	C L	31
PCB-197	Octa		0.053	0.035	0.081	L	0.2	32	1.3	830	L	35
PCB-198	Octa					U L	0.22				U L	25
PCB-199	Octa		0.5	0.33	0.77	L	0.2	96	3.8	2500	L	35
PCB-200	Octa					U L	0.13				U L	21
PCB-201	Octa					U L	0.16				U L	18
PCB-202	Octa					U L	0.15				U L	22
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.15				U L	18
PCB-206	Nona					U L	0.13				U L	32
PCB-207	Nona		0.057	0.033	0.1	L	0.11	47	0.87	2600	L	56
PCB-208	Nona					U L	0.074				U L	32
PCB-209	Deca					UB L	0.065	110	0.92	13000	L	89
Total Detected PCB Congeners			2900	2300	3800			7900	2400	57000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-CB-S010-LONG				LDW-Y3-SC-ENR+AC-CC-S010-LONG					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	2.2				U L	3.1
PCB-110	Penta		130			L	4.1	260	57	1200	L	8
PCB-111	Penta		3.2			C,J,L	4.2	6.7	1.3	36	C,J,L	8.7
PCB-112	Penta					C083					C083	
PCB-113	Penta		62			L	4.1				U L	3.3
PCB-114	Penta					U L	1.7	6.3	1	40	J L	9.4
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		3.8			J L	4.1	8.7	1.9	41	L	8
PCB-120	Penta					U L	2.1				U L	3.3
PCB-121	Penta	PRC										
PCB-122	Penta					U L	1.8				U L	3.1
PCB-123	Penta					U L	1.8	4.8	0.79	30	J L	9.4
PCB-124	Penta		5.9			L	4.3	10	1.7	65	L	9.4
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	1.9				U L	3.9
PCB-127	Penta					U L	1.9				U L	3.6
PCB-128	Hexa		22			C L	5.2	60	3.9	970	C L	15
PCB-129	Hexa		8.8			L	5.1	22	1.6	300	L	14
PCB-130	Hexa		13			L	5.1	30	2.3	420	L	14
PCB-131	Hexa					UB C L	4.9				UB C L	13
PCB-132	Hexa		47			C L	4.9	130	11	1600	C L	13
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		15			C L	4.8	31	3	330	C L	13
PCB-135	Hexa		29			L	4.8	64	6.2	690	L	13
PCB-136	Hexa		43			L	5	130	9.7	1700	L	14
PCB-137	Hexa		6.8			L	5.1	18	1.3	250	L	14
PCB-138	Hexa		170			C L	5.1	400	30	5600	C L	14
PCB-139	Hexa		190			C L	4.8	430	42	4700	C L	13
PCB-140	Hexa					U L	3.1	7.3	0.71	79	J L	13
PCB-141	Hexa		33			L	5.1	76	5.7	1100	L	14
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		11			L	4.8	34	3.3	370	L	13
PCB-145	Hexa					U L	2.2				U L	6.6
PCB-146	Hexa		28			C L	5.1	76	5.7	1100	C L	14
PCB-147	Hexa		5.7			L	4.8	12	1.1	120	J L	13
PCB-148	Hexa					U L	2.9				U L	8.3
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	2.1				U L	6.5
PCB-151	Hexa		57			L	4.8	140	14	1500	L	13
PCB-152	Hexa					U L	2.2				U L	6.7
PCB-153	Hexa		190			L	5.1	490	37	6800	L	14
PCB-154	Hexa		9.3			L	4.8	33	3.2	360	L	13
PCB-155	Hexa	PRC										
PCB-156	Hexa		14			L	5.4	34	1.9	630	L	17
PCB-157	Hexa		5			J L	5.4	8.8	0.5	160	J L	17
PCB-158	Hexa		16			C L	5.1	38	2.9	530	C L	14
PCB-159	Hexa		3.6			J L	5.4	12	0.65	210	J L	17
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	2.6				U L	5.4
PCB-167	Hexa		9.7			L	5.4	16	0.93	300	J L	17
PCB-168	Hexa					U L	2.6				U L	5.6
PCB-169	Hexa					U L	2.8				U L	7.1
PCB-170	Hepta		36			L	6.3	130	3.2	5900	L	26
PCB-171	Hepta		14			L	6.1	60	1.8	2100	L	23
PCB-172	Hepta		12			L	6.3	82	1.9	3600	L	26
PCB-173	Hepta					U L	4.8				U L	12
PCB-174	Hepta		49			L	6.1	150	4.7	5300	L	23
PCB-175	Hepta					U L	4.3				U L	11
PCB-176	Hepta		9			L	6.4	35	0.79	1600	L	27
PCB-177	Hepta		31			L	6.1	110	3.3	3800	L	23
PCB-178	Hepta		15			L	6.1	49	1.5	1700	L	23
PCB-179	Hepta		29			L	6.4	110	2.5	5200	L	27
PCB-180	Hepta		82			L	6.3	350	8.2	15000	L	26
PCB-181	Hepta					U L	4.3				U L	11
PCB-182	Hepta		65			C L	6.1	220	6.6	7500	C L	23
PCB-183	Hepta		35			L	6.1	130	3.9	4500	L	23
PCB-184	Hepta	PRC										
PCB-185	Hepta					U L	4.4	27	0.82	940	L	23
PCB-186	Hepta					U L	3.5				U L	9.5
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	3.8				U L	11
PCB-189	Hepta					U L	3.4				U L	9.1
PCB-190	Hepta		6			J L	6.3	31	0.73	1300	L	26
PCB-191	Hepta					U L	3.6				U L	9.6
PCB-192	Hepta	PRC										
PCB-193	Hepta		5.3			J L	6.3	22	0.52	950	J L	26
PCB-194	Octa		15			L	8	91	0.66	13000	L	47
PCB-195	Octa		7.9			L	7.7	32	0.29	3700	J L	42
PCB-196	Octa		15			C L	7.7	120	1.1	13000	C L	42
PCB-197	Octa		6.6			L	8.2	14	0.089	2100	L	49
PCB-198	Octa					U L	4.6				U L	21
PCB-199	Octa		17			L	8.2	130	0.84	20000	L	49
PCB-200	Octa					U L	3.5				U L	18
PCB-201	Octa					U L	3.4				U L	16
PCB-202	Octa					U L	4				U L	20
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	3.1				U L	15
PCB-206	Nona					U L	3				U L	41
PCB-207	Nona		7.9			L	10	58	0.11	30000	L	89
PCB-208	Nona					U L	2.3				U L	36
PCB-209	Deca		5.5			L	13	110	0.065	180000	L	160
Total Detected PCB Congeners			4000					8800	2100	370000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR+AC-S010-DEP				LDW-Y3-SC-ENR-CA-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	1.7				U L	0.87
PCB-110	Penta		210	150	290	L	5.3	73	52	100	L	2.4
PCB-111	Penta		3.9	2.8	5.6	C,J,L	5.3	1.3	0.91	1.8	C,J,L	2.3
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	1.8				U L	0.95
PCB-114	Penta		3.4	2.4	5	J L	5.4	1.2	0.88	1.8	J L	2.2
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		7.8	5.6	11	L	5.3	2.8	2	4	L	2.4
PCB-120	Penta					U L	1.5				U L	0.71
PCB-121	Penta	PRC										
PCB-122	Penta					U L	1.6				U L	0.7
PCB-123	Penta		2.8	1.9	4.1	J L	5.4	1	0.74	1.5	J L	2.2
PCB-124	Penta		8.1	5.6	12	L	5.4	2.4	1.7	3.4	L	2.2
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	1.9				U L	0.72
PCB-127	Penta					U L	1.8				U L	0.68
PCB-128	Hexa		25	14	44	C L	5.9	5.2	3.5	7.8	C L	1.7
PCB-129	Hexa		8.4	5	14	L	5.9	2	1.4	3	L	1.8
PCB-130	Hexa		13	7.5	21	L	5.9	3.3	2.2	4.8	L	1.8
PCB-131	Hexa					UB C L	5.8				UB C,J L	1.8
PCB-132	Hexa		69	42	110	C L	5.8	13	9.2	20	C L	1.8
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		15	9.1	24	C L	5.7	3.8	2.6	5.5	C L	1.9
PCB-135	Hexa		34	21	55	L	5.7	7.4	5.1	11	L	1.9
PCB-136	Hexa		54	32	92	L	5.8	12	8	17	L	1.8
PCB-137	Hexa		7.6	4.5	13	L	5.9	1.4	0.94	2.1	J L	1.8
PCB-138	Hexa		180	110	310	C L	5.9	38	26	56	C L	1.8
PCB-139	Hexa		210	130	350	C L	5.7	46	32	66	C L	1.9
PCB-140	Hexa		4.1	2.5	6.5	J L	5.7				U L	0.72
PCB-141	Hexa		35	20	59	L	5.9	6.7	4.6	9.9	L	1.8
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		15	9.3	24	L	5.7	3.4	2.3	4.9	L	1.9
PCB-145	Hexa					U L	2.9				U L	0.73
PCB-146	Hexa		33	19	56	C L	5.9	6.8	4.6	10	C L	1.8
PCB-147	Hexa		7.5	4.7	12	L	5.7	1.4	1	2.1	J L	1.9
PCB-148	Hexa					U L	3.7				U L	0.99
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	2.9				U L	0.72
PCB-151	Hexa		67	41	110	L	5.7	16	11	22	L	1.9
PCB-152	Hexa					U L	2.9				U L	0.73
PCB-153	Hexa		200	120	330	L	5.9	43	29	63	L	1.8
PCB-154	Hexa		14	8.4	22	L	5.7	3.7	2.6	5.4	L	1.9
PCB-155	Hexa	PRC										
PCB-156	Hexa		13	7.3	23	L	6	2.7	1.8	4.1	L	1.6
PCB-157	Hexa					U L	2.8				U L	0.56
PCB-158	Hexa		19	11	32	C L	5.9	4.2	2.8	6.2	C L	1.8
PCB-159	Hexa		6.5	3.7	12	L	6	1.5	1	2.3	J L	1.6
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	2.4				U L	0.57
PCB-167	Hexa		5.3	3	9.4	J L	6	1.4	0.94	2.2	J L	1.6
PCB-168	Hexa					U L	2.3				U L	0.55
PCB-169	Hexa					U L	2.5				U L	0.48
PCB-170	Hepta		38	18	81	L	6.6	5.1	3	8.7	L	1.3
PCB-171	Hepta		17	8.4	35	L	6.4	2.6	1.6	4.3	L	1.4
PCB-172	Hepta		15	6.9	31	L	6.6	0.91	0.53	1.6	L	1.3
PCB-173	Hepta					U L	3.3				U L	0.75
PCB-174	Hepta		53	26	110	L	6.4	7.1	4.3	12	L	1.4
PCB-175	Hepta					U L	2.9				U L	0.65
PCB-176	Hepta		13	5.9	27	L	6.6				U L	0.46
PCB-177	Hepta		35	17	72	L	6.4	5.6	3.4	9.3	L	1.4
PCB-178	Hepta		16	8.1	33	L	6.4	2.6	1.6	4.3	L	1.4
PCB-179	Hepta		33	15	71	L	6.6	4.1	2.4	7.2	L	1.3
PCB-180	Hepta		93	44	200	L	6.6	14	8	23	L	1.3
PCB-181	Hepta					U L	3.1				U L	0.7
PCB-182	Hepta		78	38	160	C L	6.4	12	7	19	C L	1.4
PCB-183	Hepta		38	19	77	L	6.4	5.4	3.3	8.9	L	1.4
PCB-184	Hepta	PRC										
PCB-185	Hepta		8	3.9	16	L	6.4				U L	0.66
PCB-186	Hepta					U L	2.2				U L	0.46
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		10	4.7	22	L	6.6				U L	0.51
PCB-189	Hepta					U L	2.2				U L	0.43
PCB-190	Hepta		9.1	4.3	19	L	6.6				U L	0.51
PCB-191	Hepta					U L	2.4				U L	0.51
PCB-192	Hepta	PRC										
PCB-193	Hepta		7.1	3.3	15	L	6.6				U L	0.48
PCB-194	Octa		13	4.7	34	L	7.5	1.2	0.56	2.4	L	1
PCB-195	Octa					U L	2.6				U L	0.39
PCB-196	Octa		17	6.4	43	C L	7.3	2	1	4.1	C L	1.1
PCB-197	Octa		0.89	0.32	2.5	L	7.5	0.044	0.021	0.093	L	0.99
PCB-198	Octa					U L	3.8				U L	0.6
PCB-199	Octa		17	6.2	47	L	7.5	2.2	1.1	4.7	L	0.99
PCB-200	Octa					U L	3				U L	0.42
PCB-201	Octa					U L	2.9				U L	0.46
PCB-202	Octa					U L	3.4				U L	0.48
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	2.1				U L	0.3
PCB-206	Nona		6.8	2.1	22	J L	8.2				U L	0.26
PCB-207	Nona		1.1	0.31	3.8	L	8.6				UB L	0.76
PCB-208	Nona					U L	2.3				U L	0.18
PCB-209	Deca		5	1.1	22	L	9.7	0.33	0.1	1.1	L	0.58
Total Detected PCB Congeners			5700	4000	8400			2900	2000	4700		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CC-S010				LDW-Y3-SC-ENR-CD-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.86				U L	0.57
PCB-110	Penta		87	60	130	L	2	63	50	80	L	1.8
PCB-111	Penta		1.3	0.88	1.9	C,J,L	2	1.3	0.99	1.6	C,J,L	1.8
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	0.94				U L	0.63
PCB-114	Penta		1.5	1	2.2	J L	2				U L	0.57
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		2.7	1.9	4	L	2	2.2	1.8	2.8	L	1.8
PCB-120	Penta					U L	0.73				U L	0.48
PCB-121	Penta	PRC										
PCB-122	Penta		1.3	0.85	1.9	J L	2				U L	0.57
PCB-123	Penta		1.2	0.79	1.7	J L	2	0.97	0.75	1.3	J L	1.7
PCB-124	Penta		3.3	2.2	4.9	L	2	2	1.6	2.6	L	1.7
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.93				U L	0.55
PCB-127	Penta					U L	0.78				U L	0.58
PCB-128	Hexa		8.3	5	14	C L	1.8	4.6	3.1	7	C L	1.5
PCB-129	Hexa		2.9	1.8	4.9	L	1.9	2.1	1.4	3.1	L	1.5
PCB-130	Hexa		4	2.4	6.6	L	1.9	2.7	1.9	4	L	1.5
PCB-131	Hexa					UB C L	1.9				UB C L	1.5
PCB-132	Hexa		19	12	30	C L	1.9	14	9.8	20	C L	1.5
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		5	3.2	7.9	C L	1.9	3.7	2.7	5.3	C L	1.6
PCB-135	Hexa		13	8.3	21	L	1.9	8.2	5.9	12	L	1.6
PCB-136	Hexa		17	11	28	L	1.9	10	7	15	L	1.5
PCB-137	Hexa		2.2	1.4	3.7	L	1.9	2.4	1.7	3.6	L	1.5
PCB-138	Hexa		62	38	100	C L	1.9	39	27	57	C L	1.5
PCB-139	Hexa		72	46	110	C L	1.9	49	35	69	C L	1.6
PCB-140	Hexa					U L	0.94				U L	0.67
PCB-141	Hexa		10	6.1	16	L	1.9	7.4	5.1	11	L	1.5
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		4.1	2.6	6.5	L	1.9	3	2.2	4.3	L	1.6
PCB-145	Hexa					U L	0.66				U L	0.47
PCB-146	Hexa		9.9	6.1	16	C L	1.9	6.9	4.7	10	C L	1.5
PCB-147	Hexa		1.8	1.2	2.9	J L	1.9	1.3	0.93	1.8	J L	1.6
PCB-148	Hexa					U L	0.78				U L	0.63
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.66				U L	0.47
PCB-151	Hexa		22	14	34	L	1.9	16	12	23	L	1.6
PCB-152	Hexa					U L	0.61				U L	0.47
PCB-153	Hexa		59	36	97	L	1.9	43	29	63	L	1.5
PCB-154	Hexa		3.2	2.1	5.1	L	1.9	2.8	2	4	L	1.6
PCB-155	Hexa	PRC										
PCB-156	Hexa		4.1	2.4	7.1	L	1.8	2.6	1.7	4	L	1.4
PCB-157	Hexa		1.1	0.66	2	J L	1.8	0.83	0.54	1.3	J L	1.4
PCB-158	Hexa		5.9	3.6	9.7	C L	1.9	3.9	2.7	5.7	C L	1.5
PCB-159	Hexa		1.4	0.83	2.5	J L	1.8	0.99	0.64	1.5	J L	1.4
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.82				U L	0.54
PCB-167	Hexa		1.9	1.1	3.2	L	1.8	1.3	0.84	2	J L	1.4
PCB-168	Hexa					U L	0.84				U L	0.52
PCB-169	Hexa					U L	0.82				U L	0.47
PCB-170	Hepta		10	5	21	L	1.8	5.1	2.8	9.1	L	1.3
PCB-171	Hepta		3.7	1.9	7.3	L	1.8	2.9	1.7	5	L	1.3
PCB-172	Hepta		5	2.4	10	L	1.8	1.6	0.89	2.9	L	1.3
PCB-173	Hepta					U L	0.85				U L	0.71
PCB-174	Hepta		16	8.1	31	L	1.8	8.3	4.9	14	L	1.3
PCB-175	Hepta					U L	0.73				U L	0.61
PCB-176	Hepta		2.6	1.2	5.4	L	1.7	1.7	0.94	3.1	L	1.3
PCB-177	Hepta		9.3	4.8	18	L	1.8	5.3	3.1	9.2	L	1.3
PCB-178	Hepta		3.6	1.8	7	L	1.8	2.4	1.4	4.2	L	1.3
PCB-179	Hepta		7.5	3.6	16	L	1.7	4.7	2.6	8.6	L	1.3
PCB-180	Hepta		27	13	56	L	1.8	14	7.9	26	L	1.3
PCB-181	Hepta					U L	0.77				U L	0.66
PCB-182	Hepta		20	10	38	C L	1.8	12	7	21	C L	1.3
PCB-183	Hepta		9.2	4.7	18	L	1.8	5.6	3.2	9.6	L	1.3
PCB-184	Hepta	PRC										
PCB-185	Hepta		2.8	1.5	5.6	L	1.8				U L	0.62
PCB-186	Hepta					U L	0.56				U L	0.45
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.63				U L	0.52
PCB-189	Hepta					U L	0.56				U L	0.4
PCB-190	Hepta		2.7	1.3	5.5	L	1.8	1.5	0.82	2.6	L	1.3
PCB-191	Hepta					U L	0.59				U L	0.49
PCB-192	Hepta	PRC										
PCB-193	Hepta		1.9	0.91	3.9	L	1.8				U L	0.47
PCB-194	Octa		2.9	1.1	7.7	L	1.7	1.8	0.8	4	L	1.1
PCB-195	Octa		1.7	0.68	4.5	L	1.7	0.86	0.4	1.8	J L	1.2
PCB-196	Octa		4.5	1.7	11	C L	1.7	2.4	1.1	5.1	C L	1.2
PCB-197	Octa		1.3	0.47	3.6	L	1.7	0.19	0.081	0.43	L	1.1
PCB-198	Octa					U L	0.84				U L	0.56
PCB-199	Octa		4.3	1.5	12	L	1.7	2.7	1.2	6.3	L	1.1
PCB-200	Octa					U L	0.59				U L	0.41
PCB-201	Octa					U L	0.6				U L	0.43
PCB-202	Octa					U L	0.67				U L	0.47
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.56				U L	0.38
PCB-206	Nona		1.2	0.37	4.2	J L	1.6				U L	0.5
PCB-207	Nona		0.46	0.13	1.7	L	1.6	0.11	0.039	0.32	L	0.97
PCB-208	Nona					U L	0.54				U L	0.36
PCB-209	Deca		0.67	0.14	3.3	L	1.5				UB L	0.84
Total Detected PCB Congeners			4500	3200	7000			2700	2200	3600		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CA-S010-LONG				LDW-Y3-SC-ENR-CC-S010-LONG					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.48				U	0.34
PCB-110	Penta		48	40	57		1.2	36	33	39		0.85
PCB-111	Penta		0.95	0.8	1.1	C,J	1.1	0.92	0.84	1	C	0.77
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.53				U	0.38
PCB-114	Penta		0.59	0.5	0.7	J	0.98	0.51	0.47	0.56	J	0.7
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		1.6	1.4	1.9		1.2	1.3	1.2	1.4		0.85
PCB-120	Penta					U	0.36				U	0.25
PCB-121	Penta	PRC										
PCB-122	Penta		0.5	0.43	0.6	J	0.98				U	0.22
PCB-123	Penta		0.68	0.57	0.8	J	0.98	0.45	0.41	0.5	J	0.7
PCB-124	Penta		1.3	1.1	1.5		0.98	1	0.94	1.1		0.7
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.32				U	0.18
PCB-127	Penta					U L	0.27				U	0.19
PCB-128	Hexa		2.4	2	2.8	C L	0.59	1.6	1.4	1.8	C	0.39
PCB-129	Hexa		0.89	0.74	1.1	L	0.64	0.64	0.58	0.71		0.43
PCB-130	Hexa		1.6	1.3	1.9	L	0.64	0.84	0.76	0.93		0.43
PCB-131	Hexa					UB C L	0.68				UB C	0.46
PCB-132	Hexa		6.4	5.4	7.6	C L	0.68	5	4.5	5.5	C	0.46
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		1.8	1.5	2.2	C L	0.73	1.2	1.1	1.3	C	0.5
PCB-135	Hexa		4.2	3.6	5	L	0.73	3.4	3.1	3.8		0.5
PCB-136	Hexa		5.4	4.5	6.4	L	0.65	3.9	3.5	4.3		0.43
PCB-137	Hexa		0.72	0.6	0.86	L	0.64	0.67	0.61	0.74		0.43
PCB-138	Hexa		19	16	23	C L	0.64	13	12	15	C	0.43
PCB-139	Hexa		26	22	31	C L	0.73	19	17	20	C	0.5
PCB-140	Hexa					U L	0.35	0.32	0.29	0.35	J	0.5
PCB-141	Hexa		3.5	2.9	4.1	L	0.64	2.4	2.2	2.7		0.43
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		1.4	1.2	1.7	L	0.73	1.1	0.98	1.2		0.5
PCB-145	Hexa					U L	0.27				U	0.14
PCB-146	Hexa		3.4	2.8	4	C L	0.64	2.2	2	2.5	C	0.43
PCB-147	Hexa		0.59	0.5	0.7	J L	0.73	0.6	0.54	0.66		0.5
PCB-148	Hexa					U L	0.4				U	0.21
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.27				U	0.14
PCB-151	Hexa		8.5	7.1	10	L	0.73	5.7	5.2	6.3		0.5
PCB-152	Hexa					U L	0.28				U	0.14
PCB-153	Hexa		21	18	25	L	0.64	15	13	16		0.43
PCB-154	Hexa		1.3	1.1	1.6	L	0.73	0.92	0.84	1		0.5
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.2	0.98	1.4	L	0.55	0.7	0.63	0.78		0.36
PCB-157	Hexa		0.38	0.32	0.47	J L	0.55				U	0.16
PCB-158	Hexa		1.8	1.5	2.1	C L	0.64	1.3	1.2	1.5	C	0.43
PCB-159	Hexa		0.37	0.31	0.45	J L	0.55	0.3	0.27	0.33	J	0.36
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.26				U	0.17
PCB-167	Hexa		0.5	0.42	0.61	J L	0.55	0.4	0.36	0.45		0.36
PCB-168	Hexa					U L	0.25				U	0.17
PCB-169	Hexa					U L	0.18				U	0.11
PCB-170	Hepta		1.8	1.4	2.3	L	0.36	1	0.88	1.2	L	0.22
PCB-171	Hepta		0.95	0.75	1.2	L	0.41	0.58	0.51	0.66	L	0.25
PCB-172	Hepta		0.55	0.43	0.71	L	0.36	0.043	0.038	0.05	L	0.22
PCB-173	Hepta					U L	0.16				U L	0.11
PCB-174	Hepta		3	2.4	3.8	L	0.41	1.9	1.7	2.2	L	0.25
PCB-175	Hepta					U L	0.14				U L	0.093
PCB-176	Hepta		0.53	0.41	0.68	L	0.35	0.32	0.27	0.37	L	0.22
PCB-177	Hepta		2	1.6	2.6	L	0.41	1.1	0.93	1.2	L	0.25
PCB-178	Hepta		0.75	0.59	0.94	L	0.41	0.5	0.44	0.58	L	0.25
PCB-179	Hepta		1.5	1.2	2	L	0.35	0.93	0.81	1.1	L	0.22
PCB-180	Hepta		4.5	3.5	5.8	L	0.36	3	2.6	3.4	L	0.22
PCB-181	Hepta					U L	0.15				U L	0.1
PCB-182	Hepta		4.1	3.2	5.1	C L	0.41	2.8	2.4	3.2	C L	0.25
PCB-183	Hepta		2	1.6	2.5	L	0.41	1.3	1.1	1.5	L	0.25
PCB-184	Hepta	PRC										
PCB-185	Hepta					U L	0.14				U L	0.094
PCB-186	Hepta					U L	0.091				U L	0.06
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.1				U L	0.071
PCB-189	Hepta					U L	0.08				U L	0.047
PCB-190	Hepta		0.5	0.39	0.64	L	0.36	0.24	0.21	0.28	L	0.22
PCB-191	Hepta					U L	0.1				U L	0.067
PCB-192	Hepta	PRC										
PCB-193	Hepta					U L	0.097	0.18	0.16	0.21	J L	0.22
PCB-194	Octa		0.37	0.26	0.52	L	0.21	0.22	0.18	0.27	L	0.12
PCB-195	Octa					U L	0.11				U L	0.031
PCB-196	Octa		0.62	0.45	0.87	C L	0.23	0.31	0.26	0.38	C L	0.13
PCB-197	Octa					UB L	0.2	0.012	0.0096	0.014	L	0.11
PCB-198	Octa					U L	0.14				U L	0.063
PCB-199	Octa		0.47	0.33	0.67	L	0.2	0.22	0.18	0.27	L	0.11
PCB-200	Octa					U L	0.093				U L	0.04
PCB-201	Octa					U L	0.11				U L	0.048
PCB-202	Octa					U L	0.11				U L	0.046
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.078				U L	0.022
PCB-206	Nona					U L	0.043				U L	0.043
PCB-207	Nona					UB L	0.11				UB L	0.059
PCB-208	Nona					U L	0.026				U L	0.023
PCB-209	Deca					UB L	0.066				UB L	0.032
Total Detected PCB Congeners			2800	2300	3500			2500	2200	2800		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SC-ENR-CD-S010-LONG				LDW-Y3-SC-ENR-S010-DEP					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	0.7				U L	0.87
PCB-110	Penta		57	36	94	L	1.6	67	42	110	L	1.8
PCB-111	Penta		1	0.66	1.7	C,J L	1.4	1.6	1	2.7	C L	1.6
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	0.76				U L	0.95
PCB-114	Penta		0.91	0.57	1.5	J L	1.3	1.3	0.82	2.1	J L	1.5
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		2	1.3	3.3	L	1.6	2.4	1.5	4	L	1.8
PCB-120	Penta					U L	0.52				U L	0.63
PCB-121	Penta	PRC										
PCB-122	Penta		0.59	0.37	0.97	J L	1.3				U L	0.55
PCB-123	Penta		0.95	0.6	1.6	J L	1.3	1	0.65	1.7	J L	1.5
PCB-124	Penta		1.5	0.96	2.5	L	1.3	1.8	1.2	3	L	1.5
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.36				U L	0.51
PCB-127	Penta					U L	0.34				U L	0.47
PCB-128	Hexa		3.3	1.9	5.9	C L	0.86	3.8	2.3	6.5	C L	0.87
PCB-129	Hexa		1.1	0.67	2	L	0.92	1.5	0.94	2.6	L	0.94
PCB-130	Hexa		1.7	1	3	L	0.92	1.9	1.1	3.1	L	0.94
PCB-131	Hexa					UB C L	0.97				UB C L	1
PCB-132	Hexa		8.1	4.8	14	C L	0.97	9.5	5.9	16	C L	1
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		2.1	1.3	3.6	C L	1	3	1.9	4.9	C L	1.1
PCB-135	Hexa		5.8	3.5	9.9	L	1	7.1	4.4	12	L	1.1
PCB-136	Hexa		8	4.7	14	L	0.93	8.3	5	14	L	0.95
PCB-137	Hexa		0.82	0.48	1.4	J L	0.92	1.1	0.67	1.8	L	0.94
PCB-138	Hexa		25	14	43	C L	0.92	28	17	47	C L	0.94
PCB-139	Hexa		32	20	55	C L	1	39	24	65	C L	1.1
PCB-140	Hexa					U L	0.46				U L	0.51
PCB-141	Hexa		4.5	2.6	7.9	L	0.92	5	3	8.3	L	0.94
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		2.2	1.3	3.8	L	1	2.3	1.5	3.8	L	1.1
PCB-145	Hexa					U L	0.41				U L	0.48
PCB-146	Hexa		4.4	2.6	7.8	C L	0.92	5	3	8.3	C L	0.94
PCB-147	Hexa		0.93	0.56	1.6	J L	1	1.2	0.74	2	L	1.1
PCB-148	Hexa					U L	0.52				U L	0.63
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.41				U L	0.48
PCB-151	Hexa		9.9	6	17	L	1	12	7.7	20	L	1.1
PCB-152	Hexa					U L	0.38				U L	0.44
PCB-153	Hexa		26	15	45	L	0.92	29	18	48	L	0.94
PCB-154	Hexa		1.7	1.1	3	L	1	1.9	1.2	3	L	1.1
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.7	0.98	3.2	L	0.81	1.6	0.96	2.8	L	0.81
PCB-157	Hexa		0.48	0.27	0.87	J L	0.81				U L	0.39
PCB-158	Hexa		2.7	1.6	4.7	C L	0.92	3	1.8	5	C L	0.94
PCB-159	Hexa		0.55	0.31	1	J L	0.81				U L	0.32
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.37				U L	0.4
PCB-167	Hexa		0.79	0.44	1.4	J L	0.81	0.87	0.52	1.5	L	0.81
PCB-168	Hexa					U L	0.38				U L	0.41
PCB-169	Hexa					U L	0.31				U L	0.29
PCB-170	Hepta		2.8	1.3	6	L	0.55	2.3	1.2	4.5	L	0.51
PCB-171	Hepta		1.4	0.68	2.8	L	0.61	1.1	0.62	2.2	L	0.58
PCB-172	Hepta		0.8	0.38	1.7	L	0.55				UB L	0.51
PCB-173	Hepta					U L	0.29				U L	0.31
PCB-174	Hepta		4.1	2.1	8.4	L	0.61	4.1	2.2	7.6	L	0.58
PCB-175	Hepta					U L	0.25				U L	0.27
PCB-176	Hepta		0.8	0.38	1.7	L	0.54	0.76	0.39	1.5	L	0.5
PCB-177	Hepta		2.9	1.4	5.8	L	0.61	2.3	1.3	4.4	L	0.58
PCB-178	Hepta		1.4	0.7	2.8	L	0.61	1.2	0.66	2.3	L	0.58
PCB-179	Hepta		2.1	1	4.7	L	0.54	2	1	3.9	L	0.5
PCB-180	Hepta		7.3	3.5	16	L	0.55	6.6	3.4	13	L	0.51
PCB-181	Hepta					U L	0.26				U L	0.29
PCB-182	Hepta		5.6	2.8	11	C L	0.61	5.7	3.1	11	C L	0.58
PCB-183	Hepta		2.6	1.3	5.4	L	0.61	2.9	1.6	5.4	L	0.58
PCB-184	Hepta	PRC										
PCB-185	Hepta		0.43	0.21	0.88	J L	0.61				U L	0.3
PCB-186	Hepta					U L	0.17				U L	0.18
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.18	0.55	0.28	1.1	L	0.5
PCB-189	Hepta					U L	0.17				U L	0.16
PCB-190	Hepta		0.72	0.34	1.5	L	0.55	0.75	0.39	1.5	L	0.51
PCB-191	Hepta					U L	0.18				U L	0.2
PCB-192	Hepta	PRC										
PCB-193	Hepta		0.55	0.26	1.2	L	0.55	0.63	0.33	1.2	L	0.51
PCB-194	Octa		0.43	0.16	1.2	L	0.34	0.52	0.21	1.3	L	0.28
PCB-195	Octa		0.3	0.12	0.82	J L	0.37	0.26	0.11	0.63	J L	0.31
PCB-196	Octa		0.8	0.31	2.1	C L	0.37	0.88	0.38	2.1	C L	0.31
PCB-197	Octa					UB L	0.32	0.067	0.027	0.17	L	0.27
PCB-198	Octa					U L	0.19				U L	0.15
PCB-199	Octa		0.69	0.24	2	L	0.32	0.68	0.27	1.7	L	0.27
PCB-200	Octa					U L	0.12				U L	0.09
PCB-201	Octa					U L	0.13				U L	0.1
PCB-202	Octa					U L	0.13				U L	0.1
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.09				U L	0.12
PCB-206	Nona		0.13	0.038	0.47	J L	0.23	0.13	0.043	0.41	J L	0.17
PCB-207	Nona					UB L	0.2				UB L	0.15
PCB-208	Nona					U L	0.037				U L	0.038
PCB-209	Deca					UB L	0.12				UB L	0.081
Total Detected PCB Congeners			4400	2700	8800			4600	2500	9900		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CA-S010				LDW-Y3-SU-ENR+AC-CC-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.26				U	0.25
PCB-110	Penta		74	63	89		0.82	44	41	47		0.57
PCB-111	Penta		0.82	0.69	0.98	C	0.74	0.66	0.61	0.71	C	0.5
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.28				U	0.27
PCB-114	Penta		0.84	0.71	1		0.67	0.75	0.7	0.81		0.45
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		3.3	2.8	3.9		0.82	1.2	1.1	1.3		0.57
PCB-120	Penta		0.4	0.34	0.48	J	0.67				U	0.17
PCB-121	Penta	PRC										
PCB-122	Penta		0.42	0.35	0.5	J	0.67	0.25	0.24	0.27	J	0.45
PCB-123	Penta		0.64	0.54	0.76	J	0.67	0.43	0.41	0.47	J	0.45
PCB-124	Penta		1.5	1.3	1.8		0.67	1.1	0.99	1.1		0.45
PCB-125	Penta					C087					C087	
PCB-126	Penta					U	0.18				U	0.11
PCB-127	Penta					U	0.17				U	0.099
PCB-128	Hexa		2.7	2.2	3.2	C	0.39	1.4	1.2	1.5	C	0.22
PCB-129	Hexa		0.89	0.74	1.1		0.42	0.51	0.47	0.56		0.25
PCB-130	Hexa		1.6	1.3	2		0.42	0.73	0.67	0.79		0.25
PCB-131	Hexa					UB C	0.45				UB C	0.27
PCB-132	Hexa		8.3	7	10	C	0.45	4	3.7	4.4	C	0.27
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		2.2	1.8	2.6	C	0.49	1.1	1	1.2	C	0.3
PCB-135	Hexa		6	5.1	7.3		0.49	2.6	2.4	2.8		0.3
PCB-136	Hexa		6.9	5.7	8.4		0.43	3	2.8	3.2		0.25
PCB-137	Hexa		0.87	0.72	1.1		0.42	0.51	0.47	0.55		0.25
PCB-138	Hexa		22	18	27	C	0.42	10	9.7	11	C	0.25
PCB-139	Hexa		31	26	38	C	0.49	14	13	15	C	0.3
PCB-140	Hexa		0.44	0.37	0.53	J	0.49				U	0.12
PCB-141	Hexa		3.7	3.1	4.5		0.42	2	1.9	2.2		0.25
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		1.5	1.3	1.8		0.49	0.77	0.71	0.83		0.3
PCB-145	Hexa					U	0.14				U	0.082
PCB-146	Hexa		4.4	3.7	5.4	C	0.42	1.8	1.6	1.9	C	0.25
PCB-147	Hexa		0.73	0.61	0.88		0.49	0.31	0.29	0.34		0.3
PCB-148	Hexa					U	0.19				U	0.11
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U	0.14				U	0.082
PCB-151	Hexa		8.7	7.3	10		0.49	4.3	4	4.7		0.3
PCB-152	Hexa					U	0.13				U	0.076
PCB-153	Hexa		20	17	25		0.42	9.5	8.8	10		0.25
PCB-154	Hexa		1.2	1	1.5		0.49	0.49	0.45	0.53		0.3
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.2	0.94	1.4		0.36	0.61	0.56	0.66		0.2
PCB-157	Hexa		0.36	0.3	0.45		0.36	0.15	0.14	0.17	J	0.2
PCB-158	Hexa		2.3	1.9	2.8	C	0.42	1.2	1.1	1.3	C	0.25
PCB-159	Hexa		0.27	0.22	0.34	J	0.36	0.14	0.13	0.15	J	0.2
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U	0.16				U	0.085
PCB-167	Hexa		0.59	0.48	0.73		0.36	0.29	0.27	0.32		0.2
PCB-168	Hexa					U	0.17				U	0.088
PCB-169	Hexa					U	0.12				U	0.062
PCB-170	Hepta		1.4	1.1	1.9	L	0.22	0.63	0.56	0.71		0.11
PCB-171	Hepta		0.69	0.54	0.88	L	0.26	0.31	0.28	0.35		0.13
PCB-172	Hepta		0.3	0.23	0.4	L	0.22	0.15	0.14	0.17		0.11
PCB-173	Hepta					U L	0.1				U	0.055
PCB-174	Hepta		2.7	2.1	3.4	L	0.26	1.1	0.99	1.2		0.13
PCB-175	Hepta					U L	0.086				U	0.047
PCB-176	Hepta		0.5	0.39	0.66	L	0.22	0.14	0.13	0.16		0.11
PCB-177	Hepta		1.7	1.4	2.2	L	0.26	0.63	0.57	0.7		0.13
PCB-178	Hepta		0.74	0.58	0.95	L	0.26	0.29	0.26	0.32		0.13
PCB-179	Hepta		1.3	0.99	1.7	L	0.22	0.49	0.44	0.55		0.11
PCB-180	Hepta		4.7	3.6	6.1	L	0.22	1.9	1.7	2.1		0.11
PCB-181	Hepta					U L	0.091				U	0.05
PCB-182	Hepta		3.5	2.7	4.5	C L	0.26	1.4	1.3	1.6	C	0.13
PCB-183	Hepta		1.6	1.3	2.1	L	0.26	0.64	0.57	0.71		0.13
PCB-184	Hepta	PRC										
PCB-185	Hepta		0.32	0.25	0.41	L	0.26	0.2	0.18	0.22		0.13
PCB-186	Hepta					U L	0.058				U	0.03
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.26	0.2	0.34	L	0.22	0.088	0.079	0.099	J	0.11
PCB-189	Hepta					U L	0.052				U	0.028
PCB-190	Hepta		0.39	0.3	0.51	L	0.22	0.16	0.15	0.18		0.11
PCB-191	Hepta					U L	0.062				U	0.033
PCB-192	Hepta	PRC										
PCB-193	Hepta		0.32	0.25	0.42	L	0.22	0.1	0.093	0.12	J	0.11
PCB-194	Octa		0.28	0.19	0.41	L	0.12	0.11	0.092	0.13		0.049
PCB-195	Octa		0.14	0.099	0.2	L	0.14	0.071	0.061	0.083		0.057
PCB-196	Octa		0.42	0.3	0.6	C L	0.14	0.16	0.13	0.18	C	0.057
PCB-197	Octa		0.023	0.016	0.035	L	0.12	0.021	0.018	0.025		0.046
PCB-198	Octa					U L	0.059				U	0.021
PCB-199	Octa		0.4	0.27	0.59	L	0.12	0.11	0.092	0.13		0.046
PCB-200	Octa					U L	0.036				U	0.012
PCB-201	Octa					U L	0.041				U	0.015
PCB-202	Octa					U L	0.04				U	0.014
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.038				U	0.015
PCB-206	Nona		0.063	0.039	0.1	J L	0.076	0.019	0.015	0.024	J	0.026
PCB-207	Nona		0.0039	0.0023	0.0065	L	0.064				UB	0.021
PCB-208	Nona					U L	0.017				U	0.0059
PCB-209	Deca		0.013	0.007	0.025	L	0.036	0.00038	0.00029	0.00052	L	0.0097
Total Detected PCB Congeners			5400	4500	6800			3200	3000	3600		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CD-S010				LDW-Y3-SU-ENR+AC-CA-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.31				U L	2.3
PCB-110	Penta		70	62	80		0.71	350	180	690	L	4.9
PCB-111	Penta		1.1	0.95	1.2	C	0.64	4.5	2.2	9.4	C,J,L	4.8
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.34				U L	2.6
PCB-114	Penta		0.98	0.87	1.1		0.58	5.9	2.7	13	L	4.7
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		2.2	2	2.5		0.71	13	6.7	26	L	4.9
PCB-120	Penta					U	0.22				U L	1.9
PCB-121	Penta	PRC										
PCB-122	Penta		0.52	0.46	0.58	J	0.58	3	1.4	6.5	J L	4.7
PCB-123	Penta		0.77	0.68	0.87		0.58	4.6	2.1	10	J L	4.7
PCB-124	Penta		1.8	1.6	2		0.58	10	4.8	23	L	4.7
PCB-125	Penta					C087					C087	
PCB-126	Penta					U	0.2				U L	1.8
PCB-127	Penta					U	0.17				U L	1.6
PCB-128	Hexa		2.7	2.4	3.2	C	0.32	25	8.2	79	C L	4.1
PCB-129	Hexa		0.93	0.81	1.1		0.35	9.1	3.1	27	L	4.2
PCB-130	Hexa		1.4	1.2	1.6		0.35	15	5.1	44	L	4.2
PCB-131	Hexa					UB C	0.38				UB C L	4.3
PCB-132	Hexa		8.3	7.3	9.5	C	0.38	66	24	190	C L	4.3
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		2.1	1.8	2.4	C	0.41	17	6.4	46	C L	4.3
PCB-135	Hexa		5.1	4.5	5.8		0.41	43	16	120	L	4.3
PCB-136	Hexa		6.5	5.6	7.4		0.35	63	22	190	L	4.2
PCB-137	Hexa		1	0.89	1.2		0.35	8.8	3	26	L	4.2
PCB-138	Hexa		21	19	24	C	0.35	200	68	590	C L	4.2
PCB-139	Hexa		28	25	32	C	0.41	240	91	650	C L	4.3
PCB-140	Hexa		0.43	0.38	0.49		0.41	3.4	1.3	9.1	J L	4.3
PCB-141	Hexa		3.8	3.3	4.3		0.35	37	13	110	L	4.2
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		1.8	1.5	2		0.41	13	4.9	35	L	4.3
PCB-145	Hexa					U	0.13				U L	2.2
PCB-146	Hexa		3.8	3.3	4.3	C	0.35	38	13	110	C L	4.2
PCB-147	Hexa		0.64	0.56	0.73		0.41	5	1.9	13	L	4.3
PCB-148	Hexa					U	0.17				U L	2.6
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U	0.13				U L	2.2
PCB-151	Hexa		8.6	7.6	9.8		0.41	70	27	190	L	4.3
PCB-152	Hexa					U	0.12				U L	2
PCB-153	Hexa		19	17	22		0.35	200	67	580	L	4.2
PCB-154	Hexa		1	0.91	1.2		0.41	13	4.7	34	L	4.3
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.2	1.1	1.4		0.29	13	4.1	45	L	4.1
PCB-157	Hexa		0.34	0.29	0.39		0.29	3.5	1.1	12	J L	4.1
PCB-158	Hexa		2.2	1.9	2.5	C	0.35	19	6.7	58	C L	4.2
PCB-159	Hexa		0.27	0.23	0.31	J	0.29	2.4	0.73	8	J L	4.1
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U	0.13				U L	1.9
PCB-167	Hexa		0.53	0.46	0.62		0.29	6.1	1.9	20	L	4.1
PCB-168	Hexa					U	0.14				U L	1.9
PCB-169	Hexa					U	0.11				U L	2.1
PCB-170	Hepta		1.6	1.3	2		0.18	26	5.7	130	L	3.6
PCB-171	Hepta		0.56	0.47	0.67		0.2	10	2.4	44	L	3.8
PCB-172	Hepta		0.34	0.28	0.42		0.18	8.2	1.8	39	L	3.6
PCB-173	Hepta					U	0.073				U L	1.8
PCB-174	Hepta		2.6	2.1	3.1		0.2	43	10	190	L	3.8
PCB-175	Hepta					U	0.062				U L	1.6
PCB-176	Hepta		0.41	0.34	0.5		0.17	7.6	1.6	37	L	3.6
PCB-177	Hepta		1.5	1.3	1.8		0.2	24	5.6	100	L	3.8
PCB-178	Hepta		0.7	0.59	0.84		0.2	11	2.6	48	L	3.8
PCB-179	Hepta		1.2	1	1.5		0.17	21	4.5	100	L	3.6
PCB-180	Hepta		4.3	3.6	5.3		0.18	78	17	370	L	3.6
PCB-181	Hepta					U	0.066				U L	1.7
PCB-182	Hepta		3.4	2.8	4	C	0.2	54	13	230	C L	3.8
PCB-183	Hepta		1.6	1.3	1.9		0.2	23	5.3	97	L	3.8
PCB-184	Hepta	PRC										
PCB-185	Hepta		0.39	0.33	0.47		0.2	6.9	1.6	30	L	3.8
PCB-186	Hepta					U	0.041				U L	1.2
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.17	0.14	0.21	J	0.17				U L	1.3
PCB-189	Hepta					U L	0.036				U L	1.2
PCB-190	Hepta		0.34	0.28	0.41		0.18	6.2	1.3	29	L	3.6
PCB-191	Hepta					U	0.045				U L	1.3
PCB-192	Hepta	PRC										
PCB-193	Hepta		0.35	0.29	0.43		0.18	5.3	1.1	25	L	3.6
PCB-194	Octa		0.28	0.21	0.37	L	0.091	7.2	0.93	55	L	3.2
PCB-195	Octa		0.14	0.11	0.18	L	0.1	3.3	0.48	24	L	3.3
PCB-196	Octa		0.46	0.36	0.6	C L	0.1	11	1.6	79	C L	3.3
PCB-197	Octa		0.026	0.02	0.035	L	0.086	0.57	0.072	4.7	L	3.1
PCB-198	Octa					U L	0.046				U L	1.7
PCB-199	Octa		0.34	0.26	0.45	L	0.086	9.3	1.2	75	L	3.1
PCB-200	Octa					U L	0.027				U L	1.2
PCB-201	Octa					U L	0.033				U L	1.2
PCB-202	Octa		0.11	0.086	0.15	L	0.086				U L	1.3
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.033				U L	1.1
PCB-206	Nona		0.051	0.036	0.072	J L	0.054				U L	1.7
PCB-207	Nona					UB L	0.045	0.65	0.049	8.7	L	2.7
PCB-208	Nona		0.018	0.013	0.027	J L	0.045				U L	1.2
PCB-209	Deca		0.0083	0.0052	0.013	L	0.024	1.8	0.081	40	L	2.4
Total Detected PCB Congeners			4300	3700	5000			9900	5200	22000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR+AC-CB-S010-BIO				LDW-Y3-SU-ENR+AC-CC-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	1.4				U L	0.75
PCB-110	Penta		190	160	220	L	3.8	130	100	160	L	1.8
PCB-111	Penta		4.1	3.4	5	C L	3.8	1.8	1.4	2.4	C L	1.8
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	1.5				U L	0.82
PCB-114	Penta		4	3.2	4.9	L	3.8	2.1	1.6	2.8	L	1.7
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		6.5	5.4	7.8	L	3.8	4.4	3.5	5.5	L	1.8
PCB-120	Penta					U L	1.2				U L	0.59
PCB-121	Penta	PRC										
PCB-122	Penta					U L	1	0.99	0.76	1.3	J L	1.7
PCB-123	Penta		2.5	2	3	J L	3.8	1.3	0.99	1.7	J L	1.7
PCB-124	Penta		6	4.9	7.4	L	3.8	3.7	2.9	4.9	L	1.7
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	1.2				U L	0.46
PCB-127	Penta					U L	1				U L	0.39
PCB-128	Hexa		19	14	26	C L	3.7	8.2	5.5	12	C L	1.3
PCB-129	Hexa		6.6	5	8.9	L	3.7	2.5	1.8	3.7	L	1.3
PCB-130	Hexa		9.6	7.2	13	L	3.7	4	2.8	5.8	L	1.3
PCB-131	Hexa					U B C L	3.7				U B C L	1.4
PCB-132	Hexa		44	33	58	C L	3.7	23	16	33	C L	1.4
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		11	8.4	14	C L	3.7	5.3	3.8	7.5	C L	1.4
PCB-135	Hexa		29	23	38	L	3.7	13	9.2	18	L	1.4
PCB-136	Hexa		39	29	52	L	3.7	17	12	25	L	1.3
PCB-137	Hexa		5.7	4.3	7.7	L	3.7	2.4	1.7	3.6	L	1.3
PCB-138	Hexa		130	97	170	C L	3.7	58	40	85	C L	1.3
PCB-139	Hexa		160	120	200	C L	3.7	74	53	100	C L	1.4
PCB-140	Hexa		2.5	1.9	3.2	J L	3.7	0.97	0.69	1.4	J L	1.4
PCB-141	Hexa		23	18	31	L	3.7	10	6.9	15	L	1.3
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		7.8	6	10	L	3.7	5.3	3.8	7.5	L	1.4
PCB-145	Hexa					U L	1.2				U L	0.43
PCB-146	Hexa		26	19	34	C L	3.7	11	7.7	16	C L	1.3
PCB-147	Hexa		3.5	2.7	4.5	J L	3.7	1.4	1	2	J L	1.4
PCB-148	Hexa					U L	1.5				U L	0.53
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	1.2				U L	0.43
PCB-151	Hexa		49	37	63	L	3.7	22	16	31	L	1.4
PCB-152	Hexa					U L	1.2				U L	0.39
PCB-153	Hexa		130	96	170	L	3.7	54	37	79	L	1.3
PCB-154	Hexa		7.7	5.9	10	L	3.7	2.7	1.9	3.8	L	1.4
PCB-155	Hexa	PRC										
PCB-156	Hexa		8.5	6.2	12	L	3.7	3.5	2.3	5.3	L	1.2
PCB-157	Hexa		2.4	1.8	3.4	J L	3.7	0.93	0.62	1.4	J L	1.2
PCB-158	Hexa		13	9.9	18	C L	3.7	6	4.2	8.8	C L	1.3
PCB-159	Hexa		2.1	1.5	2.9	J L	3.7	0.93	0.61	1.4	J L	1.2
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	1.3				U L	0.42
PCB-167	Hexa		3.9	2.8	5.3	L	3.7	1.8	1.2	2.7	L	1.2
PCB-168	Hexa					U L	1.3				U L	0.43
PCB-169	Hexa					U L	1.3				U L	0.4
PCB-170	Hepta		19	13	29	L	3.7	5.8	3.4	10	L	0.98
PCB-171	Hepta		8.7	5.9	13	L	3.7	2.5	1.5	4.2	L	1
PCB-172	Hepta		6.4	4.2	9.7	L	3.7	0.96	0.56	1.7	L	0.98
PCB-173	Hepta					U L	1.6				U L	0.39
PCB-174	Hepta		31	21	45	L	3.7	10	6.1	17	L	1
PCB-175	Hepta					U L	1.3				U L	0.34
PCB-176	Hepta		5.6	3.7	8.5	L	3.7	1.7	0.99	3	L	0.97
PCB-177	Hepta		20	13	29	L	3.7	5.9	3.6	9.9	L	1
PCB-178	Hepta		8.3	5.7	12	L	3.7	2.6	1.6	4.4	L	1
PCB-179	Hepta		18	12	27	L	3.7	5.5	3.1	9.5	L	0.97
PCB-180	Hepta		67	44	100	L	3.7	18	10	31	L	0.98
PCB-181	Hepta					U L	1.4				U L	0.36
PCB-182	Hepta		43	29	64	C L	3.7	14	8.3	23	C L	1
PCB-183	Hepta		19	13	29	L	3.7	5.5	3.3	9.2	L	1
PCB-184	Hepta	PRC										
PCB-185	Hepta		4.8	3.2	7	L	3.7	1.8	1.1	3.1	L	1
PCB-186	Hepta					U L	1				U L	0.25
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	1.2	0.6	0.34	1	J L	0.97
PCB-189	Hepta					U L	1				U L	0.22
PCB-190	Hepta		3.7	2.4	5.6	L	3.7	1.2	0.67	2	L	0.98
PCB-191	Hepta					U L	1.1				U L	0.26
PCB-192	Hepta	PRC										
PCB-193	Hepta		4.1	2.7	6.1	L	3.7	0.85	0.49	1.5	J L	0.98
PCB-194	Octa		7.6	4.4	13	L	3.6	1.6	0.77	3.3	L	0.73
PCB-195	Octa		3.9	2.3	6.6	L	3.6	0.81	0.41	1.6	L	0.77
PCB-196	Octa		12	6.9	20	C L	3.6	2.6	1.3	5.1	C L	0.77
PCB-197	Octa		0.43	0.24	0.75	L	3.6	0.074	0.035	0.16	L	0.71
PCB-198	Octa					U L	1.5				U L	0.31
PCB-199	Octa		12	6.7	20	L	3.6	2.4	1.2	5.1	L	0.71
PCB-200	Octa					U L	1.1				U L	0.21
PCB-201	Octa					U L	1.1				U L	0.22
PCB-202	Octa					U L	1.2				U L	0.23
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.98				U L	0.21
PCB-206	Nona		2.8	1.4	5.3	J L	3.6	0.43	0.18	1	J L	0.58
PCB-207	Nona		0.79	0.39	1.6	L	3.6	0.081	0.032	0.2	L	0.53
PCB-208	Nona					U L	0.95	0.23	0.091	0.58	J L	0.53
PCB-209	Deca		1.4	0.61	3.2	L	3.6	0.086	0.028	0.26	L	0.4
Total Detected PCB Congeners			5200	4300	6300		4700	3800	5900			

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CA-S010				LDW-Y3-SU-ENR-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.2				U	0.2
PCB-110	Penta		71	66	75		0.62	49	46	52		0.66
PCB-111	Penta		0.94	0.88	1	C	0.55	0.84	0.79	0.89	C	0.58
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.22				U	0.22
PCB-114	Penta		0.85	0.8	0.9		0.49	0.57	0.54	0.61		0.52
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		3	2.8	3.2		0.62	2.3	2.1	2.4		0.66
PCB-120	Penta					U	0.15				U	0.15
PCB-121	Penta	PRC										
PCB-122	Penta		0.49	0.46	0.52		0.49	0.25	0.24	0.27	J	0.52
PCB-123	Penta		0.7	0.66	0.74		0.49	0.51	0.49	0.55	J	0.52
PCB-124	Penta		1.7	1.6	1.8		0.49	1.1	1.1	1.2		0.52
PCB-125	Penta					C087					C087	
PCB-126	Penta					U	0.14				U	0.1
PCB-127	Penta					U	0.14				U	0.1
PCB-128	Hexa		3.1	2.9	3.3	C	0.24	1.7	1.6	1.8	C	0.26
PCB-129	Hexa		1.2	1.1	1.2		0.27	0.79	0.74	0.84		0.29
PCB-130	Hexa		1.9	1.8	2.1		0.27	1.1	1.1	1.2		0.29
PCB-131	Hexa					UB C	0.3				UB C	0.31
PCB-132	Hexa		10	9.4	11	C	0.3	6	5.6	6.4	C	0.31
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		2.3	2.2	2.4	C	0.32	1.6	1.5	1.7	C	0.34
PCB-135	Hexa		5.2	4.9	5.6		0.32	3.3	3.1	3.5		0.34
PCB-136	Hexa		5.9	5.5	6.3		0.28	4	3.7	4.2		0.29
PCB-137	Hexa		1.2	1.1	1.3		0.27	0.69	0.65	0.74		0.29
PCB-138	Hexa		24	23	26	C	0.27	14	13	15	C	0.29
PCB-139	Hexa		31	29	33	C	0.32	20	19	21	C	0.34
PCB-140	Hexa		0.54	0.51	0.58		0.32	0.28	0.26	0.3	J	0.34
PCB-141	Hexa		4.6	4.3	4.9		0.27	2.7	2.5	2.9		0.29
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		2.1	2	2.2		0.32	1.5	1.4	1.5		0.34
PCB-145	Hexa					U	0.11				U	0.12
PCB-146	Hexa		4.4	4.1	4.7	C	0.27	2.6	2.5	2.8	C	0.29
PCB-147	Hexa		0.86	0.81	0.91		0.32	0.53	0.5	0.56		0.34
PCB-148	Hexa					U	0.18				U	0.19
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U	0.11				U	0.11
PCB-151	Hexa		9.5	8.9	10		0.32	6.2	5.8	6.6		0.34
PCB-152	Hexa					U	0.11				U	0.12
PCB-153	Hexa		25	23	26		0.27	15	14	16		0.29
PCB-154	Hexa		1.1	1.1	1.2		0.32	0.69	0.65	0.73		0.34
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.5	1.4	1.6		0.22	0.73	0.68	0.78		0.23
PCB-157	Hexa		0.33	0.31	0.36		0.22	0.18	0.17	0.2	J	0.23
PCB-158	Hexa		2.5	2.4	2.7	C	0.27	1.4	1.3	1.5	C	0.29
PCB-159	Hexa		0.33	0.31	0.35		0.22	0.22	0.2	0.24	J	0.23
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U	0.092				U	0.098
PCB-167	Hexa		0.67	0.62	0.72		0.22	0.36	0.33	0.38		0.23
PCB-168	Hexa					U	0.094				U	0.1
PCB-169	Hexa					U	0.062				U	0.07
PCB-170	Hepta		2.1	1.9	2.3		0.12	0.83	0.76	0.91		0.13
PCB-171	Hepta		0.89	0.82	0.98		0.14	0.32	0.3	0.35		0.15
PCB-172	Hepta		0.56	0.51	0.62		0.12	0.28	0.26	0.31		0.13
PCB-173	Hepta					U	0.066				U	0.051
PCB-174	Hepta		3.3	3.1	3.7		0.14	1.5	1.4	1.6		0.15
PCB-175	Hepta		0.18	0.17	0.2		0.14				U	0.046
PCB-176	Hepta		0.5	0.45	0.55		0.12	0.2	0.18	0.22		0.12
PCB-177	Hepta		2.2	2	2.4		0.14	0.95	0.87	1		0.15
PCB-178	Hepta		0.81	0.74	0.88		0.14	0.42	0.39	0.46		0.15
PCB-179	Hepta		1.5	1.4	1.6		0.12	0.72	0.66	0.79		0.12
PCB-180	Hepta		5.7	5.2	6.3		0.12	2.3	2.1	2.5		0.13
PCB-181	Hepta					U	0.06				U	0.046
PCB-182	Hepta		4.6	4.2	5	C	0.14	2.2	2	2.4	C	0.15
PCB-183	Hepta		2.1	1.9	2.3		0.14	0.99	0.91	1.1		0.15
PCB-184	Hepta	PRC										
PCB-185	Hepta		0.46	0.42	0.5		0.14	0.2	0.18	0.21		0.15
PCB-186	Hepta					U	0.037				U	0.028
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.14	0.13	0.16		0.12	0.13	0.11	0.14		0.12
PCB-189	Hepta					U	0.028				U	0.024
PCB-190	Hepta		0.41	0.37	0.45		0.12	0.18	0.16	0.19		0.13
PCB-191	Hepta		0.12	0.11	0.14		0.12				U	0.031
PCB-192	Hepta	PRC										
PCB-193	Hepta		0.35	0.32	0.38		0.12	0.13	0.12	0.15		0.13
PCB-194	Octa		0.4	0.35	0.45		0.055	0.13	0.11	0.15		0.059
PCB-195	Octa		0.23	0.2	0.26		0.064	0.089	0.079	0.1		0.068
PCB-196	Octa		0.62	0.55	0.7		0.064	0.2	0.17	0.22	C	0.068
PCB-197	Octa					UB	0.051				UB	0.055
PCB-198	Octa					U	0.029				U	0.022
PCB-199	Octa		0.46	0.4	0.52		0.051	0.13	0.12	0.15		0.055
PCB-200	Octa					U	0.017				U	0.013
PCB-201	Octa		0.082	0.073	0.093		0.064	30	27	34		0.068
PCB-202	Octa		0.13	0.11	0.14		0.051				U	0.014
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U	0.022				U	0.025
PCB-206	Nona		0.086	0.073	0.1		0.03	0.023	0.02	0.028	J L	0.032
PCB-207	Nona		0.012	0.01	0.015	L	0.024				UB L	0.025
PCB-208	Nona		0.019	0.016	0.023	J L	0.024				U L	0.0044
PCB-209	Deca		0.0043	0.0034	0.0055	L	0.011				UB L	0.012
Total Detected PCB Congeners			3700	3400	4000			3500	3300	3800		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CC-S010				LDW-Y3-SU-ENR-CA-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.21				U	0.63
PCB-110	Penta		64	61	68		0.67	90	76	110		1.5
PCB-111	Penta		1.5	1.4	1.5	C	0.59	1.8	1.5	2.1	C L	1.3
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.22				U	0.67
PCB-114	Penta		0.77	0.73	0.81		0.53	1.1	0.9	1.2	J L	1.2
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		1.8	1.7	1.9		0.67	3.4	2.9	4.1		1.5
PCB-120	Penta					U	0.15				U L	0.47
PCB-121	Penta	PRC										
PCB-122	Penta		0.5	0.47	0.53	J	0.53	0.88	0.75	1	J L	1.2
PCB-123	Penta		0.6	0.56	0.63		0.53	1	0.87	1.2	J L	1.2
PCB-124	Penta		1.6	1.5	1.7		0.53	2	1.7	2.4	L	1.2
PCB-125	Penta					C087					C087	
PCB-126	Penta					U	0.17				U L	0.44
PCB-127	Penta					U	0.16				U L	0.36
PCB-128	Hexa		2.2	2.1	2.3	C	0.28	4.2	3.5	5.1	C L	0.64
PCB-129	Hexa		0.9	0.85	0.96		0.3	1.3	1.1	1.6	L	0.7
PCB-130	Hexa		1.3	1.2	1.4		0.3	2.6	2.2	3.1	L	0.7
PCB-131	Hexa					UB C	0.33				UB C L	0.76
PCB-132	Hexa		6.4	6	6.8	C	0.33	12	10	14	C L	0.76
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		2	1.9	2.1	C	0.36	3.5	3	4.2	C L	0.83
PCB-135	Hexa		3.7	3.5	3.9		0.36	8.1	6.8	9.5	L	0.83
PCB-136	Hexa		4.5	4.3	4.8		0.31	10	8.7	12	L	0.71
PCB-137	Hexa		0.76	0.72	0.81		0.3	1.4	1.2	1.7	L	0.7
PCB-138	Hexa		17	16	18	C	0.3	30	26	36	C L	0.7
PCB-139	Hexa		22	21	24	C	0.36	43	36	51	C L	0.83
PCB-140	Hexa		0.29	0.28	0.31	J	0.36	1.1	0.89	1.3	L	0.83
PCB-141	Hexa		3.4	3.2	3.6		0.3	5.6	4.7	6.7	L	0.7
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		1.5	1.4	1.6		0.36	3	2.6	3.6	L	0.83
PCB-145	Hexa					U	0.12				U L	0.29
PCB-146	Hexa		2.8	2.6	3	C	0.3	7	5.9	8.3	C L	0.7
PCB-147	Hexa		0.57	0.53	0.6		0.36	1.5	1.3	1.8	L	0.83
PCB-148	Hexa					U	0.2				U L	0.48
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U	0.12				U L	0.29
PCB-151	Hexa		7.3	6.9	7.7		0.36	14	12	17	L	0.83
PCB-152	Hexa					U	0.12				U L	0.3
PCB-153	Hexa		17	16	18		0.3	35	29	42	L	0.7
PCB-154	Hexa		0.74	0.69	0.78		0.36	2.6	2.2	3.1	L	0.83
PCB-155	Hexa	PRC										
PCB-156	Hexa		0.93	0.87	1		0.25	1.7	1.4	2	L	0.59
PCB-157	Hexa		0.26	0.24	0.28		0.25	0.56	0.46	0.67	J L	0.59
PCB-158	Hexa		1.8	1.7	1.9	C	0.3	2.9	2.4	3.4	C L	0.7
PCB-159	Hexa		0.2	0.19	0.22	J	0.25	0.57	0.47	0.69	J L	0.59
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U	0.12				U L	0.31
PCB-167	Hexa		0.46	0.43	0.49		0.25	0.85	0.7	1	L	0.59
PCB-168	Hexa					U	0.12				U L	0.32
PCB-169	Hexa					U	0.077				U L	0.22
PCB-170	Hepta		0.95	0.87	1		0.14	2.2	1.7	2.8	L	0.34
PCB-171	Hepta		0.46	0.42	0.5		0.17	1.1	0.91	1.4	L	0.4
PCB-172	Hepta		0.23	0.21	0.26		0.14	0.6	0.48	0.77	L	0.34
PCB-173	Hepta					U	0.068				U L	0.16
PCB-174	Hepta		1.7	1.5	1.8		0.17	4.2	3.4	5.3	L	0.4
PCB-175	Hepta					U	0.061				U L	0.15
PCB-176	Hepta		0.28	0.26	0.31		0.14	0.65	0.51	0.83	L	0.33
PCB-177	Hepta		1.1	0.98	1.2		0.17	2.5	2	3.2	L	0.4
PCB-178	Hepta		0.5	0.46	0.55		0.17	1.1	0.9	1.4	L	0.4
PCB-179	Hepta		0.85	0.77	0.93		0.14	2	1.6	2.5	L	0.33
PCB-180	Hepta		2.6	2.3	2.8		0.14	6.7	5.3	8.5	L	0.34
PCB-181	Hepta					U	0.061				U L	0.15
PCB-182	Hepta		2.2	2	2.4	C	0.17	5.9	4.7	7.4	C L	0.4
PCB-183	Hepta		1.1	1	1.2		0.17	2.5	2	3.2	L	0.4
PCB-184	Hepta	PRC										
PCB-185	Hepta		0.22	0.2	0.24		0.17	0.58	0.46	0.72	L	0.4
PCB-186	Hepta					U	0.038				U L	0.093
PCB-187	Hepta					C182					C182	
PCB-188	Hepta		0.15	0.14	0.17		0.14				U L	0.1
PCB-189	Hepta					U	0.032				U L	0.074
PCB-190	Hepta		0.24	0.22	0.26		0.14	0.47	0.37	0.6	L	0.34
PCB-191	Hepta					U	0.041				U L	0.1
PCB-192	Hepta	PRC										
PCB-193	Hepta		0.17	0.15	0.18		0.14	0.39	0.3	0.49	L	0.34
PCB-194	Octa		0.17	0.15	0.19		0.069	0.41	0.29	0.57	L	0.17
PCB-195	Octa		0.097	0.086	0.11		0.079	0.22	0.16	0.31	L	0.19
PCB-196	Octa		0.24	0.21	0.27		0.079	0.69	0.5	0.94	C L	0.19
PCB-197	Octa					UB L	0.064	0.043	0.031	0.061	L	0.16
PCB-198	Octa					U	0.027				U L	0.071
PCB-199	Octa		0.21	0.19	0.24	L	0.064	0.46	0.33	0.65	L	0.16
PCB-200	Octa					U L	0.016				U L	0.043
PCB-201	Octa					U	0.02				U L	0.053
PCB-202	Octa					U L	0.018				U L	0.048
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U	0.029				U L	0.08
PCB-206	Nona		0.029	0.025	0.034	J L	0.039	0.068	0.045	0.1	J L	0.096
PCB-207	Nona					UB L	0.031	0.0018	0.0011	0.0027	L	0.078
PCB-208	Nona					U L	0.0084	0.043	0.028	0.068	J L	0.078
PCB-209	Deca					UB L	0.015				UB L	0.039
Total Detected PCB Congeners			4300	4000	4600			5200	4100	6700		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-ENR-CB-S010-BIO				LDW-Y3-SU-ENR-CC-S010-BIO					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	2.1				U L	1.5
PCB-110	Penta		650	91	5700	L	5.1	200	97	420	L	3.3
PCB-111	Penta		7.6	0.89	80	C L	5	4.5	2.2	9.3	C L	3.1
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	2.3				U L	1.6
PCB-114	Penta		7.9	0.78	100	L	4.9	3.1	1.5	6.4	L	2.8
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		24	3.4	210	L	5.1				U L	1.4
PCB-120	Penta					U L	1.9				U L	1.2
PCB-121	Penta	PRC										
PCB-122	Penta		4.8	0.47	61	J L	4.9	1.6	0.81	3.3	J L	2.8
PCB-123	Penta		5.9	0.58	75	L	4.9	1.6	0.77	3.2	J L	2.8
PCB-124	Penta		14	1.3	170	L	4.9	5.8	2.9	12	L	2.8
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	1.8				U L	0.86
PCB-127	Penta					U L	1.6				U L	0.79
PCB-128	Hexa		40	1.4	1700	C L	4.4	9.2	4.3	20	C L	1.8
PCB-129	Hexa		15	0.63	520	L	4.4	4.1	2	8.8	L	1.9
PCB-130	Hexa		25	1	860	L	4.4	6.1	2.9	13	L	1.9
PCB-131	Hexa					UB C L	4.5				UB C L	2
PCB-132	Hexa		100	4.9	3100	C L	4.5	27	13	56	C L	2
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		30	1.6	760	C L	4.6	7.4	3.6	15	C L	2.2
PCB-135	Hexa		63	3.5	1600	L	4.6	16	7.9	34	L	2.2
PCB-136	Hexa		90	3.8	3000	L	4.5	18	8.8	39	L	2
PCB-137	Hexa		16	0.65	540	L	4.4	3.1	1.5	6.6	L	1.9
PCB-138	Hexa		290	12	10000	C L	4.4	73	35	160	C L	1.9
PCB-139	Hexa		380	21	9600	C L	4.6	93	46	190	C L	2.2
PCB-140	Hexa		5.6	0.3	140	L	4.6	1.2	0.59	2.5	J L	2.2
PCB-141	Hexa		55	2.3	1900	L	4.4	14	6.9	31	L	1.9
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		26	1.4	660	L	4.6	5.8	2.8	12	L	2.2
PCB-145	Hexa					U L	1.5				U L	0.7
PCB-146	Hexa		54	2.3	1900	C L	4.4	13	6.3	28	C L	1.9
PCB-147	Hexa		10	0.55	250	L	4.6	2.1	1	4.4	J L	2.2
PCB-148	Hexa					U L	2.2				U L	1.1
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	1.5				U L	0.68
PCB-151	Hexa		120	6.5	3000	L	4.6	28	14	58	L	2.2
PCB-152	Hexa					U L	1.5				U L	0.71
PCB-153	Hexa		300	13	10000	L	4.4	80	38	170	L	1.9
PCB-154	Hexa		14	0.79	360	L	4.6	3.4	1.7	7.1	L	2.2
PCB-155	Hexa	PRC										
PCB-156	Hexa		17	0.52	820	L	4.3	4.7	2.2	10	L	1.7
PCB-157	Hexa		4	0.12	200	J L	4.3	1.4	0.65	3.1	J L	1.7
PCB-158	Hexa		31	1.3	1100	C L	4.4	8	3.8	17	C L	1.9
PCB-159	Hexa		4.4	0.13	210	L	4.3	1.3	0.6	2.9	J L	1.7
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	1.9				U L	0.76
PCB-167	Hexa		8.5	0.26	420	L	4.3	2.2	1	4.8	L	1.7
PCB-168	Hexa					U L	2				U L	0.78
PCB-169	Hexa					U L	1.6				U L	0.57
PCB-170	Hepta		30	0.39	4200	L	3.9	5	1.9	13	L	1.1
PCB-171	Hepta		13	0.21	1400	L	4	2.5	1	6.1	L	1.3
PCB-172	Hepta		6.7	0.087	950	L	3.9	0.9	0.35	2.4	L	1.1
PCB-173	Hepta					U L	1.9				U L	0.37
PCB-174	Hepta		49	0.8	5200	L	4	8.7	3.6	22	L	1.3
PCB-175	Hepta					U L	1.7				U L	0.33
PCB-176	Hepta		11	0.13	1600	L	3.9	1.5	0.56	3.9	L	1.1
PCB-177	Hepta		29	0.47	3000	L	4	5.8	2.3	14	L	1.3
PCB-178	Hepta		14	0.23	1500	L	4	2.5	1	6.2	L	1.3
PCB-179	Hepta		32	0.4	4900	L	3.9	4.4	1.7	12	L	1.1
PCB-180	Hepta		86	1.1	12000	L	3.9	14	5.5	38	L	1.1
PCB-181	Hepta					U L	1.8				U L	0.33
PCB-182	Hepta		64	1	6800	C L	4	12	5	31	C L	1.3
PCB-183	Hepta		32	0.52	3300	L	4	6.7	2.7	17	L	1.3
PCB-184	Hepta	PRC										
PCB-185	Hepta		7.2	0.12	760	L	4	1.4	0.55	3.4	L	1.3
PCB-186	Hepta					U L	1.3				U L	0.22
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	1.5	0.96	0.36	2.6	J L	1.1
PCB-189	Hepta					U L	1.1				U L	0.2
PCB-190	Hepta		7.5	0.098	1100	L	3.9	1.4	0.54	3.7	L	1.1
PCB-191	Hepta					U L	1.3				U L	0.23
PCB-192	Hepta	PRC										
PCB-193	Hepta		5.6	0.072	790	L	3.9	1.2	0.44	3	L	1.1
PCB-194	Octa		9.5	0.042	5600	L	3.4	1.1	0.31	4.1	L	0.68
PCB-195	Octa		4.6	0.025	2100	L	3.5	0.63	0.19	2.2	J L	0.75
PCB-196	Octa		14	0.074	6300	C L	3.5	1.8	0.53	6.1	C L	0.75
PCB-197	Octa		1.6	0.0064	1100	L	3.4				UB L	0.65
PCB-198	Octa					U L	1.6				U L	0.28
PCB-199	Octa		12	0.048	8100	L	3.4	1.5	0.39	5.6	L	0.65
PCB-200	Octa					U L	1.1				U L	0.18
PCB-201	Octa					U L	1.2				U L	0.21
PCB-202	Octa		3.9	0.016	2600	L	3.4				U L	0.2
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	1.6				U L	0.65
PCB-206	Nona		2.6	0.0053	4900	J L	3.1				U L	0.16
PCB-207	Nona		0.62	0.00096	1800	L	3				UB L	0.39
PCB-208	Nona					U L	0.67				U L	0.096
PCB-209	Deca		0.098	0.000062	1200	L	2.6				UB L	0.23
Total Detected PCB Congeners			26000	8500	270000			7500	3100	22000		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-SU-S010-LCB				LDW-Y3-LBS-WAT-S010-SPME					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.22				U	0.33
PCB-110	Penta		0.4	0.38	0.43	J	0.8				U	0.31
PCB-111	Penta					UC	0.2				UC	0.27
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.24				U	0.34
PCB-114	Penta					U	0.14				U	0.25
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta					U	0.21				U	0.3
PCB-120	Penta					U	0.17				U	0.23
PCB-121	Penta	PRC										
PCB-122	Penta					U	0.16				U	0.23
PCB-123	Penta					U	0.18				U	0.26
PCB-124	Penta					U	0.15				U	0.22
PCB-125	Penta					C087					C087	
PCB-126	Penta					U	0.14				U	0.24
PCB-127	Penta					U	0.13				U	0.19
PCB-128	Hexa					UC	0.11				UC	0.13
PCB-129	Hexa					U	0.16				U	0.19
PCB-130	Hexa					U	0.17				U	0.17
PCB-131	Hexa					UC	0.17				UC	0.2
PCB-132	Hexa					UC	0.13	0.22	0.21	0.24	C,J	0.39
PCB-133	Hexa					C131					C131	
PCB-134	Hexa					UC	0.18				UC	0.22
PCB-135	Hexa					U	0.16				U	0.21
PCB-136	Hexa					U	0.12				U	0.16
PCB-137	Hexa					U	0.13				U	0.16
PCB-138	Hexa					UC	0.11				UC	0.14
PCB-139	Hexa					UC	0.15				UC	0.19
PCB-140	Hexa					U	0.15				U	0.19
PCB-141	Hexa					U	0.13				U	0.16
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa					U	0.16				U	0.17
PCB-145	Hexa					U	0.12				U	0.15
PCB-146	Hexa		0.19	0.18	0.21	C,J	0.38	0.26	0.24	0.28	C,J	0.35
PCB-147	Hexa					U	0.15				U	0.19
PCB-148	Hexa					U	0.19				U	0.22
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U	0.12				U	0.15
PCB-151	Hexa					U	0.16				U	0.2
PCB-152	Hexa					U	0.12				U	0.15
PCB-153	Hexa		0.69	0.64	0.74		0.38	0.46	0.43	0.5		0.35
PCB-154	Hexa					U	0.16				U	0.2
PCB-155	Hexa	PRC										
PCB-156	Hexa					U	0.09				U	0.11
PCB-157	Hexa					U	0.088				U	0.11
PCB-158	Hexa					UC	0.1				UC	0.12
PCB-159	Hexa					U	0.08				U	0.097
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U	0.1				U	0.12
PCB-167	Hexa					U	0.085				U	0.1
PCB-168	Hexa					U	0.11				U	0.13
PCB-169	Hexa					U	0.07				U	0.073
PCB-170	Hepta					U	0.064				U	0.067
PCB-171	Hepta					U	0.072				U	0.076
PCB-172	Hepta					U	0.065	0.14	0.12	0.16		0.15
PCB-173	Hepta					U	0.078				U	0.083
PCB-174	Hepta					U	0.072				U	0.07
PCB-175	Hepta					U	0.07				U	0.072
PCB-176	Hepta					U	0.046				U	0.044
PCB-177	Hepta					U	0.077				U	0.08
PCB-178	Hepta					U	0.074				U	0.076
PCB-179	Hepta					U	0.044				U	0.044
PCB-180	Hepta					U	0.064				U	0.063
PCB-181	Hepta					U	0.07				U	0.075
PCB-182	Hepta					UC	0.066				UC	0.067
PCB-183	Hepta					U	0.066				U	0.069
PCB-184	Hepta	PRC										
PCB-185	Hepta					U	0.071				U	0.074
PCB-186	Hepta					U	0.044				U	0.045
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U	0.044				U	0.05
PCB-189	Hepta					U L	0.042				U	0.038
PCB-190	Hepta					U	0.048				U	0.05
PCB-191	Hepta					U	0.048				U	0.049
PCB-192	Hepta	PRC										
PCB-193	Hepta					U	0.046				U	0.048
PCB-194	Octa					U L	0.039				U	0.034
PCB-195	Octa					U L	0.05				U	0.042
PCB-196	Octa					U L	0.038				U	0.043
PCB-197	Octa		0.027	0.023	0.031	L	0.088	0.016	0.013	0.018		0.058
PCB-198	Octa					U L	0.042				U	0.049
PCB-199	Octa					U L	0.034				U	0.034
PCB-200	Octa					U L	0.025				U	0.026
PCB-201	Octa					U L	0.031				U	0.032
PCB-202	Octa					U L	0.028				U	0.029
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.033				U	0.028
PCB-206	Nona					U L	0.011				U L	0.011
PCB-207	Nona					U B L	0.045				U B L	0.025
PCB-208	Nona					U L	0.0057				U L	0.0064
PCB-209	Deca					U B L	0.023				U B L	0.011
Total Detected PCB Congeners			8.7	8	9.4			2.6	2.4	2.9		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CA-S010				LDW-Y3-IN-ENR+AC-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.53				U	0.27
PCB-110	Penta		47	36	61		1.7	28	23	35		0.96
PCB-111	Penta		1.1	0.82	1.4	C,J,L	1.7	0.38	0.31	0.48	C,J	0.88
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.56				U	0.28
PCB-114	Penta					U L	0.61	0.49	0.4	0.61	J	0.8
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		1.7	1.3	2.2	J	1.7	0.88	0.72	1.1	J	0.96
PCB-120	Penta					U L	0.43				U	0.2
PCB-121	Penta	PRC										
PCB-122	Penta					U L	0.58				U	0.27
PCB-123	Penta					U L	0.67	0.39	0.32	0.48	J	0.8
PCB-124	Penta		1.5	1.1	1.9	J L	1.6	0.94	0.77	1.2		0.8
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.63				U	0.25
PCB-127	Penta					U L	0.57				U	0.25
PCB-128	Hexa		3.4	2.5	4.7	C L	1.2	1.8	1.4	2.3	C L	0.49
PCB-129	Hexa		1.6	1.2	2.2	L	1.2	0.76	0.61	0.97	L	0.53
PCB-130	Hexa		2.1	1.6	2.9	L	1.2	0.94	0.75	1.2	L	0.53
PCB-131	Hexa					UB C,J L	1.3				UB C	0.57
PCB-132	Hexa		8.2	6.1	11	C L	1.3	4.6	3.7	5.8	C	0.57
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		2.6	2	3.5	C L	1.3	1.3	1	1.6	C	0.6
PCB-135	Hexa		5.7	4.3	7.6	L	1.3	3.2	2.6	4		0.6
PCB-136	Hexa		5.3	3.9	7.1	L	1.2	2.9	2.3	3.6		0.54
PCB-137	Hexa		1.3	0.95	1.7	L	1.2	0.83	0.66	1.1	L	0.53
PCB-138	Hexa		22	16	30	C L	1.2	12	9.3	15	C L	0.53
PCB-139	Hexa		24	18	32	C L	1.3	14	11	17	C	0.6
PCB-140	Hexa					U L	0.69				U	0.21
PCB-141	Hexa		3.8	2.8	5.1	L	1.2	2.1	1.7	2.6	L	0.53
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		1.3	0.96	1.7	J L	1.3	0.61	0.49	0.76		0.6
PCB-145	Hexa					U L	0.38				U	0.2
PCB-146	Hexa		4.4	3.3	6	C L	1.2	2.1	1.7	2.6	C L	0.53
PCB-147	Hexa		1	0.78	1.4	J L	1.3	0.69	0.55	0.86		0.6
PCB-148	Hexa					U L	0.47				U	0.27
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.37				U	0.2
PCB-151	Hexa		8.4	6.3	11	L	1.3	4.3	3.5	5.4		0.6
PCB-152	Hexa					U L	0.38				U	0.2
PCB-153	Hexa		22	16	29	L	1.2	11	8.5	13	L	0.53
PCB-154	Hexa		1.5	1.1	1.9	L	1.3	0.88	0.71	1.1		0.6
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.4	1	1.9	L	1.1	0.76	0.6	0.98	L	0.46
PCB-157	Hexa		0.5	0.36	0.7	J L	1.1	0.25	0.2	0.32	J L	0.46
PCB-158	Hexa		2.5	1.9	3.4	C L	1.2	1.4	1.1	1.8	C L	0.53
PCB-159	Hexa					U L	0.29	0.2	0.16	0.26	J L	0.46
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.35				U L	0.14
PCB-167	Hexa		0.89	0.65	1.2	J L	1.1	0.46	0.36	0.6	L	0.46
PCB-168	Hexa					U L	0.36				U L	0.15
PCB-169	Hexa					U L	0.28				U L	0.091
PCB-170	Hepta		1.7	1.1	2.6	L	0.86	0.75	0.55	1	L	0.31
PCB-171	Hepta		0.96	0.65	1.4	L	0.92	0.46	0.35	0.63	L	0.34
PCB-172	Hepta		1.3	0.83	1.9	L	0.86	0.099	0.072	0.14	L	0.31
PCB-173	Hepta					U L	0.48				U L	0.15
PCB-174	Hepta		2.9	1.9	4.3	L	0.92	1.2	0.9	1.6	L	0.34
PCB-175	Hepta					U L	0.43				U L	0.13
PCB-176	Hepta		0.66	0.43	1	J L	0.85				U L	0.086
PCB-177	Hepta		2.2	1.5	3.2	L	0.92	0.92	0.69	1.2	L	0.34
PCB-178	Hepta		1.2	0.78	1.7	L	0.92	0.39	0.29	0.52	L	0.34
PCB-179	Hepta		1.5	0.97	2.3	L	0.85	0.67	0.48	0.93	L	0.3
PCB-180	Hepta		5.3	3.5	8.1	L	0.86	2	1.4	2.7	L	0.31
PCB-181	Hepta					U L	0.44				U L	0.14
PCB-182	Hepta		4.4	3	6.6	C L	0.92	1.8	1.4	2.5	C L	0.34
PCB-183	Hepta		2.1	1.5	3.2	L	0.92	1.1	0.85	1.5	L	0.34
PCB-184	Hepta	PRC										
PCB-185	Hepta					U L	0.42				U L	0.13
PCB-186	Hepta					U L	0.3				U L	0.089
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.32				U L	0.1
PCB-189	Hepta					U L	0.27				U L	0.069
PCB-190	Hepta					U L	0.31				U L	0.094
PCB-191	Hepta					U L	0.29				U L	0.088
PCB-192	Hepta	PRC										
PCB-193	Hepta					U L	0.3				U L	0.09
PCB-194	Octa		0.69	0.39	1.2	L	0.63	0.15	0.093	0.23	J L	0.18
PCB-195	Octa					U L	0.25				U L	0.095
PCB-196	Octa					U L	0.29	0.28	0.18	0.43	C L	0.2
PCB-197	Octa		0.12	0.066	0.22	L	0.61				UB L	0.17
PCB-198	Octa					U L	0.33				U L	0.12
PCB-199	Octa					U L	0.29				U L	0.1
PCB-200	Octa					U L	0.21				U L	0.075
PCB-201	Octa					U L	0.24				U L	0.088
PCB-202	Octa					U L	0.23				U L	0.082
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.18				U L	0.065
PCB-206	Nona					U L	0.23				U L	0.053
PCB-207	Nona					UB L	0.45				UB L	0.1
PCB-208	Nona					U L	0.18				U L	0.035
PCB-209	Deca		0.032	0.012	0.083	L	0.33				UB L	0.06
Total Detected PCB Congeners			1000	790	1400			700	560	910		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR+AC-CC-S010				LDW-Y3-IN-ENR-CB-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U	0.48				U L	1.1
PCB-110	Penta		30	24	37		1.5	100	69	150	L	3.3
PCB-111	Penta					UC	0.45				UC L	1.1
PCB-112	Penta					C083					C083	
PCB-113	Penta					U	0.5				U L	1.1
PCB-114	Penta					U L	0.53	1.7	1.1	2.6	J L	3.3
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		1.1	0.86	1.3	J	1.5	3.5	2.4	5.1	L	3.3
PCB-120	Penta					U L	0.39				U L	0.97
PCB-121	Penta	PRC										
PCB-122	Penta					U L	0.47				U L	1.3
PCB-123	Penta					U L	0.58				U L	1.5
PCB-124	Penta		0.82	0.65	1	J L	1.4	3	2	4.6	J L	3.3
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.52				U L	1.4
PCB-127	Penta					U L	0.46				U L	1.4
PCB-128	Hexa		2.6	1.9	3.6	C L	1	10	5.8	19	C L	3.4
PCB-129	Hexa		1	0.77	1.4	J L	1.1	4	2.3	7.1	L	3.4
PCB-130	Hexa		1.3	0.99	1.8	L	1.1	5.1	3	9	L	3.4
PCB-131	Hexa					UB C, J L	1.1				UB C L	3.4
PCB-132	Hexa		6.1	4.6	8.2	C L	1.1	27	16	46	C L	3.4
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		1.6	1.2	2.1	C L	1.1	6.9	4.1	11	C L	3.3
PCB-135	Hexa		4.2	3.2	5.5	L	1.1	15	9	25	L	3.3
PCB-136	Hexa		4.1	3	5.5	L	1.1	16	9.3	28	L	3.4
PCB-137	Hexa		1.1	0.79	1.5	L	1.1	4.4	2.6	7.8	L	3.4
PCB-138	Hexa		16	12	22	C L	1.1	68	39	120	C L	3.4
PCB-139	Hexa		17	13	23	C L	1.1	71	43	120	C L	3.3
PCB-140	Hexa					U L	0.37				U L	1.5
PCB-141	Hexa		3.2	2.4	4.4	L	1.1	12	6.7	20	L	3.4
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		0.83	0.63	1.1	J L	1.1	4.1	2.5	6.8	L	3.3
PCB-145	Hexa					U L	0.4				U L	1.2
PCB-146	Hexa		3.2	2.4	4.4	C L	1.1	13	7.3	22	C L	3.4
PCB-147	Hexa		0.86	0.65	1.1	J L	1.1	3.1	1.9	5.2	J L	3.3
PCB-148	Hexa					U L	0.5				U L	1.3
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.39				U L	1.1
PCB-151	Hexa		5.6	4.3	7.4	L	1.1	22	13	36	L	3.3
PCB-152	Hexa					U L	0.4				U L	1.2
PCB-153	Hexa		15	11	21	L	1.1	60	34	100	L	3.4
PCB-154	Hexa		1.2	0.9	1.6	L	1.1	4	2.4	6.6	L	3.3
PCB-155	Hexa	PRC										
PCB-156	Hexa		1.1	0.8	1.6	L	0.97	4.8	2.6	8.9	L	3.4
PCB-157	Hexa					U L	0.25				U L	1.1
PCB-158	Hexa		1.8	1.3	2.4	C L	1.1	6.4	3.7	11	C L	3.4
PCB-159	Hexa					U L	0.23				U L	1.1
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.27				U L	1.2
PCB-167	Hexa		0.54	0.39	0.77	J L	0.97	2	1.1	3.7	J L	3.4
PCB-168	Hexa					U L	0.28				U L	1.2
PCB-169	Hexa					U L	0.22				U L	1
PCB-170	Hepta		1.4	0.89	2.2	L	0.76	5.8	2.6	13	L	3.5
PCB-171	Hepta		0.72	0.47	1.1	J L	0.81	3.2	1.5	6.7	J L	3.4
PCB-172	Hepta		1.5	0.97	2.4	L	0.76	2.5	1.1	5.5	L	3.5
PCB-173	Hepta					U L	0.35				U L	1.5
PCB-174	Hepta		1.5	0.99	2.3	L	0.81	9.9	4.7	21	L	3.4
PCB-175	Hepta					U L	0.31				U L	1.3
PCB-176	Hepta					U L	0.21	2.3	1	5.3	J L	3.5
PCB-177	Hepta		1.5	1	2.3	L	0.81	7.8	3.7	17	L	3.4
PCB-178	Hepta		0.73	0.48	1.1	J L	0.81	3.8	1.8	8	L	3.4
PCB-179	Hepta		1.1	0.68	1.7	L	0.75	7.8	3.5	18	L	3.5
PCB-180	Hepta		3.7	2.4	6	L	0.76	19	8.7	44	L	3.5
PCB-181	Hepta					U L	0.32				U L	1.4
PCB-182	Hepta		3.4	2.2	5.2	C L	0.81	16	7.3	33	C L	3.4
PCB-183	Hepta		1.6	1	2.4	L	0.81	9.3	4.4	20	L	3.4
PCB-184	Hepta	PRC										
PCB-185	Hepta					U L	0.31				U L	1.3
PCB-186	Hepta					U L	0.22				U L	1
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.27				U L	1.2
PCB-189	Hepta					U L	0.16				U L	0.92
PCB-190	Hepta					U L	0.23	2.5	1.1	5.6	J L	3.5
PCB-191	Hepta					U L	0.21				U L	0.99
PCB-192	Hepta	PRC										
PCB-193	Hepta					U L	0.22				U L	1
PCB-194	Octa		0.48	0.25	0.92	J L	0.56	3.4	1.1	9.9	J L	3.6
PCB-195	Octa					U L	0.19				U L	1.2
PCB-196	Octa		0.59	0.32	1.1	C, J L	0.59	3.9	1.4	11	C L	3.6
PCB-197	Octa		0.0013	0.00069	0.0026	L	0.54				UB L	3.6
PCB-198	Octa					U L	0.29				U L	1.8
PCB-199	Octa		0.48	0.25	0.94	J L	0.54				U L	1.7
PCB-200	Octa					U L	0.19				U L	1.3
PCB-201	Octa					U L	0.21				U L	1.3
PCB-202	Octa					U L	0.21				U L	1.4
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.14				U L	0.96
PCB-206	Nona					U L	0.16				U L	1.4
PCB-207	Nona		0.075	0.032	0.18	L	0.4				UB L	3.8
PCB-208	Nona					U L	0.11				U L	0.98
PCB-209	Deca		0.18	0.063	0.51	L	0.3	0.96	0.18	5.2	L	3.9
Total Detected PCB Congeners			650	520	850			1900	1300	2900		

Table A6. Uncertainty analysis of concentration of freely-dissolved (Cfree) PCB congeners.

PCB	Homolog Group	PRC	LDW-Y3-IN-ENR-CC-S010				LDW-Y3-IN-ENR-CD-S010					
			[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL	[PCB Cfree] Result	Lower CL [PCB Cfree] Result	Upper CL [PCB Cfree] Result	Qualifier	[PCB Cfree] DL
			(pg/L)	(pg/L)	(pg/L)		(pg/L)	(pg/L)	(pg/L)	(pg/L)		(pg/L)
PCB-109	Penta					U L	1				U L	0.87
PCB-110	Penta		62	44	87	L	1.8	61	29	140	L	2.1
PCB-111	Penta					U C L	0.95				U C L	0.84
PCB-112	Penta					C083					C083	
PCB-113	Penta					U L	1.1				U L	0.92
PCB-114	Penta					U L	0.96	1.3	0.51	3.2	J L	2
PCB-115	Penta					C111					C111	
PCB-116	Penta					C085					C085	
PCB-117	Penta					C087					C087	
PCB-118	Penta					C106					C106	
PCB-119	Penta		2.4	1.7	3.3	L	1.8	2.6	1.2	5.7	L	2.1
PCB-120	Penta					U L	0.81				U L	0.75
PCB-121	Penta	PRC										
PCB-122	Penta					U L	0.91				U L	0.9
PCB-123	Penta					U L	1.1	1.2	0.48	3	J L	2
PCB-124	Penta		1.8	1.3	2.5	L	1.6	2.4	0.98	6.2	L	2
PCB-125	Penta					C087					C087	
PCB-126	Penta					U L	0.94				U L	0.9
PCB-127	Penta					U L	0.87				U L	0.94
PCB-128	Hexa		4.1	2.9	6	C L	1.1	6.2	1.6	25	C L	1.8
PCB-129	Hexa		2.2	1.5	3.1	L	1.1	2.5	0.71	9.7	L	1.8
PCB-130	Hexa		1.9	1.3	2.7	L	1.1	3.1	0.85	12	L	1.8
PCB-131	Hexa					U B C L	1.2				U B C L	1.8
PCB-132	Hexa		11	8	16	C L	1.2	13	4	48	C L	1.8
PCB-133	Hexa					C131					C131	
PCB-134	Hexa		3.6	2.6	5.1	C L	1.3	3.7	1.2	12	C L	1.9
PCB-135	Hexa		8.1	5.8	11	L	1.3	9.2	2.9	31	L	1.9
PCB-136	Hexa		6.9	4.9	9.9	L	1.1	9.3	2.6	35	L	1.8
PCB-137	Hexa		2	1.4	2.9	L	1.1	2.1	0.57	7.8	L	1.8
PCB-138	Hexa		26	18	38	C L	1.1	35	9.9	140	C L	1.8
PCB-139	Hexa		30	21	42	C L	1.3	38	12	130	C L	1.9
PCB-140	Hexa					U L	0.85				U L	0.82
PCB-141	Hexa		4.7	3.3	6.7	L	1.1	6.8	1.9	26	L	1.8
PCB-142	Hexa	PRC										
PCB-143	Hexa					C134					C134	
PCB-144	Hexa		2.3	1.6	3.2	L	1.3	2.3	0.73	7.8	L	1.9
PCB-145	Hexa					U L	0.68				U L	0.78
PCB-146	Hexa		5.5	3.9	7.9	C L	1.1	7.1	2	27	C L	1.8
PCB-147	Hexa		1.9	1.3	2.7	L	1.3	1.9	0.61	6.5	L	1.9
PCB-148	Hexa					U L	0.87				U L	0.93
PCB-149	Hexa					C139					C139	
PCB-150	Hexa					U L	0.66				U L	0.76
PCB-151	Hexa		12	8.4	17	L	1.3	14	4.3	46	L	1.9
PCB-152	Hexa					U L	0.68				U L	0.77
PCB-153	Hexa		23	16	33	L	1.1	36	9.9	140	L	1.8
PCB-154	Hexa		1.7	1.2	2.4	L	1.3	3	0.94	10	L	1.9
PCB-155	Hexa	PRC										
PCB-156	Hexa		2.2	1.5	3.3	L	1	2.2	0.54	9.8	L	1.7
PCB-157	Hexa					U L	0.54				U L	0.61
PCB-158	Hexa		3.1	2.2	4.5	C L	1.1	4.1	1.1	16	C L	1.8
PCB-159	Hexa					U L	0.49				U L	0.55
PCB-160	Hexa					C158					C158	
PCB-161	Hexa					C132					C132	
PCB-162	Hexa					C128					C128	
PCB-163	Hexa					C138					C138	
PCB-164	Hexa					C138					C138	
PCB-165	Hexa					C146					C146	
PCB-166	Hexa					U L	0.6				U L	0.62
PCB-167	Hexa		1.2	0.81	1.7	L	1	1.3	0.32	5.8	J L	1.7
PCB-168	Hexa					U L	0.62				U L	0.64
PCB-169	Hexa					U L	0.43				U L	0.55
PCB-170	Hepta		1.6	1	2.7	L	0.73	3.7	0.59	25	L	1.6
PCB-171	Hepta					U L	0.64	2	0.36	12	L	1.6
PCB-172	Hepta		0.81	0.5	1.3	L	0.73	2.2	0.36	15	L	1.6
PCB-173	Hepta					U L	0.71				U L	1
PCB-174	Hepta		2.8	1.8	4.4	L	0.8	5.6	1	33	L	1.6
PCB-175	Hepta					U L	0.63				U L	0.93
PCB-176	Hepta					U L	0.41				U L	0.66
PCB-177	Hepta		2.3	1.5	3.6	L	0.8	4.5	0.81	27	L	1.6
PCB-178	Hepta					U L	0.65				U L	0.96
PCB-179	Hepta		2	1.2	3.3	L	0.72	4	0.62	27	L	1.6
PCB-180	Hepta		4.5	2.8	7.3	L	0.73	10	1.6	67	L	1.6
PCB-181	Hepta					U L	0.64				U L	0.95
PCB-182	Hepta		4.8	3.1	7.6	C L	0.8	8.1	1.5	48	C L	1.6
PCB-183	Hepta		3	1.9	4.7	L	0.8	4.3	0.76	25	L	1.6
PCB-184	Hepta	PRC										
PCB-185	Hepta					U L	0.62				U L	0.91
PCB-186	Hepta					U L	0.43				U L	0.68
PCB-187	Hepta					C182					C182	
PCB-188	Hepta					U L	0.46				U L	0.7
PCB-189	Hepta					U L	0.37				U L	0.67
PCB-190	Hepta					U L	0.45				U L	0.71
PCB-191	Hepta					U L	0.42				U L	0.66
PCB-192	Hepta	PRC										
PCB-193	Hepta					U L	0.43				U L	0.68
PCB-194	Octa					U L	0.38	2.3	0.21	27	L	1.4
PCB-195	Octa					U L	0.46				U L	1.1
PCB-196	Octa					U C L	0.41	2	0.2	21	C L	1.4
PCB-197	Octa		0.17	0.083	0.33	L	0.46	0.37	0.032	4.4	L	1.4
PCB-198	Octa					U L	0.46				U L	1.2
PCB-199	Octa					U L	0.39				U L	1.1
PCB-200	Octa					U L	0.29				U L	0.82
PCB-201	Octa					U L	0.34				U L	0.87
PCB-202	Octa					U L	0.32				U L	0.9
PCB-203	Octa					C196					C196	
PCB-204	Octa	PRC										
PCB-205	Octa					U L	0.32				U L	0.81
PCB-206	Nona					U L	0.26				U L	0.89
PCB-207	Nona		0.12	0.051	0.31	L	0.31	0.43	0.021	9.1	L	1.2
PCB-208	Nona					U L	0.15				U L	0.71
PCB-209	Deca		0.13	0.044	0.41	L	0.2	0.039	0.0011	1.4	L	1.1
Total Detected PCB Congeners			1500	1100	2300			1400	780	3000		

Notes

C: Coelution
 J: Analyte concentration is below calibration range
 L: Percent to steady state less than 20%
 PCB: Polychlorinated biphenyl
 pg/L: picogram per liter
 PRC: Performance Reference Compound
 U: Not detected at the Method Detection Limit (DL) shown in the second column for each sample.

UB: Cfree concentration after correction for trace PCBs present in the sampler before deployment is less than zero and is not reported as detectable
 CL: confidence level

TABLE A7

Table A7. Scour Plot Silt Layer Thickness

Sample ID	Composite Sample ID	Diver ID	Silt thickness (cm)	Silt cleared (Y/N)	Average Silt thickness (cm)
LDW-Y3-SC-ENR-1-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	61	4.5	Y	5.1
LDW-Y3-SC-ENR-2-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	66	3.0	Y	
LDW-Y3-SC-ENR-3-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	71	9.0	Y	
LDW-Y3-SC-ENR-4-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	76	4.0	Y	
LDW-Y3-SC-ENR-5-A-S010-SPME	LDW-Y3-SC-ENR-CA-S010	81	3.0	Y	
LDW-Y3-SC-ENR-6-E-S010-SPME	LDW-Y3-SC-ENR-CA-S010	90	7.0	Y	
LDW-Y3-SC-ENR-1-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	63	4.0	Y	3.5
LDW-Y3-SC-ENR-2-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	68	6.0	Y	
LDW-Y3-SC-ENR-3-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	73	5.0	Y	
LDW-Y3-SC-ENR-4-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	78	4.0	Y	
LDW-Y3-SC-ENR-5-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	83	0.0	N	
LDW-Y3-SC-ENR-6-C-S010-SPME	LDW-Y3-SC-ENR-CC-S010	88	2.0	N	
LDW-Y3-SC-ENR-1-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	64	3.5	Y	3.3
LDW-Y3-SC-ENR-2-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	69	8.0	Y	
LDW-Y3-SC-ENR-3-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	74	4.0	Y	
LDW-Y3-SC-ENR-4-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	79	1.0	N	
LDW-Y3-SC-ENR-5-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	84	0.0	N	
LDW-Y3-SC-ENR-6-D-S010-SPME	LDW-Y3-SC-ENR-CD-S010	89	3.0	Y	
LDW-Y3-SC-ENR-1-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	61	4.5	N	5.1
LDW-Y3-SC-ENR-2-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	66	3.0	N	
LDW-Y3-SC-ENR-3-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	71	9.0	N	
LDW-Y3-SC-ENR-4-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	76	4.0	N	
LDW-Y3-SC-ENR-5-A-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	81	3.0	N	
LDW-Y3-SC-ENR-6-E-S010-SPME-LONG	LDW-Y3-SC-ENR-CA-S010-LONG	90	7.0	N	
LDW-Y3-SC-ENR-1-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	63	4.0	N	3.5
LDW-Y3-SC-ENR-2-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	68	6.0	N	
LDW-Y3-SC-ENR-3-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	73	5.0	N	
LDW-Y3-SC-ENR-4-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	78	4.0	N	
LDW-Y3-SC-ENR-5-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	83	0.0	N	
LDW-Y3-SC-ENR-6-C-S010-SPME-LONG	LDW-Y3-SC-ENR-CC-S010-LONG	88	2.0	N	
LDW-Y3-SC-ENR-1-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	64	3.5	N	3.3
LDW-Y3-SC-ENR-2-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	69	8.0	N	
LDW-Y3-SC-ENR-3-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	74	4.0	N	
LDW-Y3-SC-ENR-4-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	79	1.0	N	
LDW-Y3-SC-ENR-5-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	84	0.0	N	
LDW-Y3-SC-ENR-6-D-S010-SPME-LONG	LDW-Y3-SC-ENR-CD-S010-LONG	89	3.0	N	

Table A7. Scour Plot Silt Layer Thickness

Sample ID	Composite Sample ID	Diver ID	Silt thickness (cm)	Silt cleared (Y/N)	Average Silt thickness (cm)
LDW-Y3-SC-ENR+AC-1-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	91	0.0	N	1.5
LDW-Y3-SC-ENR+AC-2-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	96	6.0	Y	
LDW-Y3-SC-ENR+AC-3-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	101	0.0	N	
LDW-Y3-SC-ENR+AC-4-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	106	0.0	N	
LDW-Y3-SC-ENR+AC-5-D-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	179	0.0	N	
LDW-Y3-SC-ENR+AC-6-A-S010-SPME	LDW-Y3-SC-ENR+AC-CA-S010	111	3.0	Y	
LDW-Y3-SC-ENR+AC-1-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	92	0.0	N	2.3
LDW-Y3-SC-ENR+AC-2-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	97	3.0	Y	
LDW-Y3-SC-ENR+AC-3-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	102	0.0	N	
LDW-Y3-SC-ENR+AC-4-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	107	1.0	N	
LDW-Y3-SC-ENR+AC-5-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	177	1.5	N	
LDW-Y3-SC-ENR+AC-6-B-S010-SPME	LDW-Y3-SC-ENR+AC-CB-S010	112	8.0	Y	
LDW-Y3-SC-ENR+AC-1-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	93	0.0	N	0.7
LDW-Y3-SC-ENR+AC-2-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	98	2.8	N	
LDW-Y3-SC-ENR+AC-3-D-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	104	0.0	N	
LDW-Y3-SC-ENR+AC-4-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	108	0.0	N	
LDW-Y3-SC-ENR+AC-5-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	178	0.0	N	
LDW-Y3-SC-ENR+AC-6-C-S010-SPME	LDW-Y3-SC-ENR+AC-CC-S010	113	1.5	N	
LDW-Y3-SC-ENR+AC-1-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	91	0.0	N	1.5
LDW-Y3-SC-ENR+AC-2-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	96	6.0	N	
LDW-Y3-SC-ENR+AC-3-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	101	0.0	N	
LDW-Y3-SC-ENR+AC-4-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	106	0.0	N	
LDW-Y3-SC-ENR+AC-5-D-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	179	0.0	N	
LDW-Y3-SC-ENR+AC-6-A-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CA-S010-LONG	111	3.0	N	
LDW-Y3-SC-ENR+AC-1-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	92	0.0	N	2.3
LDW-Y3-SC-ENR+AC-2-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	97	3.0	N	
LDW-Y3-SC-ENR+AC-3-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	102	0.0	N	
LDW-Y3-SC-ENR+AC-4-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	107	1.0	N	
LDW-Y3-SC-ENR+AC-5-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	177	1.5	N	
LDW-Y3-SC-ENR+AC-6-B-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CB-S010-LONG	112	8.0	N	
LDW-Y3-SC-ENR+AC-1-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	93	0.0	N	0.7
LDW-Y3-SC-ENR+AC-2-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	98	2.8	N	
LDW-Y3-SC-ENR+AC-3-D-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	104	0.0	N	
LDW-Y3-SC-ENR+AC-4-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	108	0.0	N	
LDW-Y3-SC-ENR+AC-5-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	178	0.0	N	
LDW-Y3-SC-ENR+AC-6-C-S010-SPME-LONG	LDW-Y3-SC-ENR+AC-CC-S010-LONG	113	1.5	N	