MODULE 3 RIVERS AND STREAMS

3.1.1

FISH CONSUMPTION ADVISORIES- SPECIFIC RIVERS

FISH CONSUMPTION ADVISORIES – SPECIFIC RIVERS

During the period 1994-1998, the SWAT program surveyed contaminant levels in fish from all major watersheds in Maine to assess potential effects to human and wildlife consumers. Mercury has been detected in concentrations resulting in fish consumption advisories statewide. Concentrations of DDT and PCBs that also warrant advisories have been found in specific waters. More detailed monitoring is necessary to determine the extent of contamination and to determine sources of these contaminants. In 2000 sampling was focused on the St. John River watershed and the Presumpscot River watershed, with studies scheduled for 1999 but not completed due to inability to collect enough fish. Miscellaneous other sites were also monitored.

Salmon Falls. Our PCB data from Salmon Falls are very limited, only one sample of fish, smallmouth bass from 1995, yet the advisory is very restrictive. This does not allow us to calculate upper 95th confidence limits on the mean. Our goal was to collect 5 smallmouth bass or largemouth bass and 5 chain pickerel analyzed for total PCBs. We were successful in collection of 5 smallmouth bass from the Rollingsford Impoundment in S Berwick and analyzed them as a single five fish composite. The concentration exceeded the Bureau of Health's (BOH) Fish Tissue Action Level (FTAL=11 ppb) and was much higher than measured previously (Table 3.1.1.1).

Androscoggin River. We had two years (1994 and 1998) of data for total PCBs in fish from the Androscoggin River. We saw a 2 to 4 fold drop or more in the total PCBs from 1995 to 1998. We need to confirm that the PCB levels have indeed decreased. We have seen a similar reduction for 1995 versus 1997 and/or 1999 data for smallmouth bass caught in Augusta below Edwards Dam and Fairfield brown trout. There are two possible explanations - the levels may have indeed decreased over time (unusual for PCBs and given short time-period), or this may be due to analytical differences associated with switching from MRI to WRI laboratories during this period. We have reviewed the QA/QC data for WRI and have no reason to question the data. Using the newer data would result in a change in the advisory, but we are resistant to change until we can confirm the new lower levels. We were successful in collecting 5 smallmouth bass each at Lisbon, Auburn, Livermore Falls, Jay, Riley above IP, and Rumford for total PCB analyses. Results show that concentrations in 2000 were for the most part intermediate those of 1994 and 1998 but closer to those of 1998 (Table 3.1.1.1). There were some exceptions. Although concentrations of most fish samples were lower than those in 1994, many still exhibited concentrations exceeding the BOH FTAL (11 ppb).

Red Brook, Scarborough

In 1994, brook trout from Red Brook in Scarborough, downstream of a landfill from the RWS waste to energy incinerator, the Larson-Chapman landfill, and a junkyard with PCB contaminated soil, were found to contain elevated levels of PCB. A repeated study in 2000, found concentrations that were much lower, but still exceeding the BOH FTAL perhaps reflecting the remedial action taken at these sites (Table 3.1.1.1).

Table 3.1.1.1. Total PCBs in 2000 fish samples from Maine rivers and streams summary

Location	Station	Species	Tot PCBs 2000	Tot PCBs 1998	Tot PCBs 1997	Tot PCBs 1996	Tot PCBs 1995	Tot PCBs 1994
			ppb	ppb				ppb
Androscoggin River								
Gilead	AGL	BNT	84.6					
	AGL	RBT	28.1	10.8				
Rumford Point	ARP	SMB	9.88	3.9				
Rumford	ARF	SMB	21.0	8.9				97.2
Jay	ARY	SMB	15.0	7.0				42.4
Livermore Falls	ALV	SMB	38.2	15.4				48.6
	ALV	WHS	48.1	32.6		30.8		39.1
	ALF	SMB	26.0					
	ALF	WHS	41.9			57.7		
Turner	AGI	SMB	29.4	20.3				114
Lisbon	ALS	SMB	52.3	27.1				97.9
Brunswick	ARB	STB	59.8					
Aroostook River								
Ft Fairfield	ARO	BKT	34.4					
	ARO	WHS	42.1					
Kennebec River								
Norridgewock	KWL	BNT	3.07					
Fairfield	KFF	BNT			92.5			300
Sidney	KSD	BNT	34.1					8.6
	KSD	SMB	32.3		6.1			
Augusta	KAG	BNT			54.6			
	KAG	SMB		263 (99)	342			604
Penobscot River								
Bangor	PBB	EEL	253			37.4		
Veazie	PBV	ATS	18.9					
Red Brook								
Scarborough	RBP	BKT	21.6					60.2
Saco River								
Saco	SOS	STB	25.0					
Salmon Falls River								
South Berwick	SFS	SMB	82.6				29.8	
Sheepscot River								
Wiscasset	SRW	STB	24.4					

raw data

DEP ID#		PQL	AGL-BNT-	AGL-BNT-	AGL-BNT-	AGL-BNT-	AGL-BNT-
WRI ID			00-043	00-044	00-045	00-046	00-047
EXT ID#			1234	1237	1238	1239	1240
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	0.338	<DL	0.148	0.475
2,2',5-Trichlorobiphenyl	18	0.5	<DL	1.025	<DL	0.777	0.742
2,4,4'-Trichlorobiphenyl	28	0.5	2.854	3.678	3.860	4.503	2.659
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	2.228	<DL	2.078
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	0.591	0.601
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	0.941	<DL	0.913
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.665	0.564	2.781	1.754	1.836
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.411	0.591	0.897	0.421	0.330
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	0.419	0.680	1.000	0.487	0.659
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.747	1.068	0.661	1.993	1.028
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.994	1.319	1.234	0.722	1.288
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.521	0.913	0.487	0.402	0.662
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	1.789	2.958	3.740	1.529	1.330
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	2.298	2.838	2.905	2.379	2.034
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	1.745	1.759	1.891	2.081	2.452
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	0.637	0.332
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	0.610	<DL	0.212	0.166
Total PCBs			62.2	91.7	98.9	83.1	87.2
Sample weight (g, wet weight)			24.67	25.01	25.13	23.54	24.07
Surrogate Recovery	% rec (65-1		72.1	114	66.0	70.0	83.0
DEP ID#		PQL	AGL-RBT-1	AGL-RBT-2	AGL-RBT-3	AGL-RBT-4	AGL-RBT-5
WRI ID			00-048	00-049	00-050	00-051	00-052
EXT ID#			1236	1237	1238	1239	1240
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.854	0.254	0.954	0.653	0.995
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	0.524	<DL	0.356	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	0.448	0.326	0.472	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	1.022	0.687	0.994	1.147	0.825
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.326	0.547	0.661	0.459	0.397
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	0.662	0.754	0.701	0.559	0.258
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.784	0.884	1.021	0.659	0.774
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	1.025	0.978	1.214	0.669	0.845
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.774	0.625	0.338	0.914	0.526
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	0.355	<DL	0.578	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			23.71	32.08	30.45	33.32	21.03
Sample weight (g, wet weight)			25.0	25.0	25.0	25.0	25.0
Surrogate Recovery	% rec (65-1		81.0	92.6	84.3	79.5	82.7

DEP ID#		PQL	ARP-SMB-1	ARP-SMB-2	ARP-SMB-3	ARP-SMB-4	ARP-SMB-5
WRI ID			00-404	00-405	00-406	00-407	00-413
EXT ID#			1085	1086	1087	1088	1089
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	0.730
2,4,4'-Trichlorobiphenyl	28	0.5	0.199	0.361	0.626	0.514	0.322
2,4,5-Trichlorobiphenyl	29	0.5	0.591	0.651	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.515	0.401	0.398	0.625	0.455
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.625	0.448	0.765	0.935	0.715
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			9.65	9.30	8.95	10.37	11.11
Sample weight (g, wet weight)			25.10	24.94	24.85	18.87	24.83
Surrogate Recovery		% rec (65-1	68.7	65.0	68.1	84.2	73.7
DEP ID#		PQL	ARF-SMB-1	ARF-SMB-2	ARF-SMB-3	ARF-SMB-4	ARF-SMB-5
WRI ID			00-435	00-436	00-437	00-442	00-443
EXT ID#			1106	1107	1108	1126	1127
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	0.440	<DL	<DL	0.483
2,4,4'-Trichlorobiphenyl	28	0.5	1.560	0.840	0.443	0.599	0.241
2,4,5-Trichlorobiphenyl	29	0.5	0.760	0.200	0.201	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.515	0.487	0.665	0.358	0.411
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	0.455	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.668	0.794	0.994	0.584	0.821
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.618	0.775	0.914	0.634	0.558
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.857	1.025	1.114	0.567	0.841
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	0.569	<DL	<DL	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			24.89	27.92	21.65	13.71	16.78
Sample weight (g, wet weight)			25.00	25.00	24.84	25.05	24.85
Surrogate Recovery		% rec (65-1	86.7	66.8	81.5	67.3	74.6

DEP ID#		PQL	ARY-SMB-	ARY-SMB-	ARY-SMB-	ARY-SMB-	ARY-SMB-
WRI ID			00-424	00-425	00-426	00-427	00-428
EXT ID#			1080	1081	1082	1083	1084
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.643	0.554	0.867	0.987	0.651
2,4,4'-Trichlorobiphenyl	28	0.5	0.335	0.512	0.671	0.885	0.405
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	0.484	0.723	0.418
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.351	0.687	0.559	0.323	0.847
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.445	0.981	0.662	0.489	0.784
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.698	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			12.34	13.67	16.21	17.13	15.52
Sample weight (g, wet weight)			24.91	25.04	24.78	24.91	24.68
Surrogate Recovery	% rec (65-1		83.7	93.1	66.4	110	78.1
DEP ID#		PQL	ALV-SMB-	ALV-SMB-	ALV-SMB-	ALV-SMB-	ALV-SMB-
WRI ID			00-454	00-455	00-456	00-457	00-458
EXT ID#			1136	1137	1138	1143	1144
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	0.320	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.541	0.564	<DL	0.359	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.815	0.604	0.680	0.521	0.560
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.481	0.512	0.322	0.478	0.621
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.897	1.025	1.014	0.679	0.897
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.451	0.589	0.384	0.401	0.598
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	<DL	0.765
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	0.725	0.488	0.695	0.387
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	1.021	1.256	0.774	1.267	0.894
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	2.024	3.069	2.847	1.145	1.026
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.775	0.569	0.842	1.026	0.954
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			35.02	44.56	38.35	32.87	33.51
Sample weight (g, wet weight)			25.08	24.81	24.99	25.04	25.01
Surrogate Recovery	% rec (65-1		69.7	73.7	96.1	79.1	77.2

DEP ID#		PQL	ALV-SMB-	ALV-SMB-	ALV-SMB-	ALV-SMB-	ALV-SMB-
WRI ID			00-459	00-460	00-461	00-462	00-463
EXT ID#			1145	1146	1147	1148	1149
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	0.368	0.789	0.878	0.518	0.469
2,2',5-Trichlorobiphenyl	18	0.5	0.391	0.215	0.759	0.519	0.297
2,4,4'-Trichlorobiphenyl	28	0.5	0.644	0.311	0.498	0.439	0.343
2,4,5-Trichlorobiphenyl	29	0.5	<DL	0.290	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.485	0.331	0.319	0.581	0.602
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.402	0.656	0.741	0.889	0.942
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.421	0.298	0.355	0.542	0.598
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	0.498	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	0.199
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.258	0.579	<DL	0.325	0.884
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.665	1.269	2.045	1.447	1.135
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.887	1.698	3.088	1.874	1.556
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	1.214	0.675	1.345	1.066	0.874
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			28.67	35.55	50.14	43.49	39.49
Sample weight (g, wet weight)			24.86	24.83	25.04	25.03	25.19
Surrogate Recovery		% rec (65-1	72.8	82.6	73.3	87.6	66.6
DEP ID#		PQL	ALV-WHS-	ALV-WHS-	ALV-WHS-	ALV-WHS-	ALV-WHS-
WRI ID			00-464	00-465	00-466	00-467	00-468
EXT ID#			1164	1165	1166	1167	1168
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.351	0.558	0.614	0.269	0.447
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.775	0.845	0.632	0.554	0.841
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	1.102	0.984	0.885	1.214	1.036
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.635	0.758	0.548	0.669	1.024
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	0.552	<DL	0.458	0.794
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	0.487	<DL	0.369	0.585
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	2.689	3.045	2.145	2.258	1.054
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	1.897	2.587	1.889	2.065	1.497
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.879	0.556	<DL	1.262	<DL
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.854	0.665	0.724	1.036	0.951
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			45.91	55.18	37.19	50.77	41.14
Sample weight (g, wet weight)			24.94	25.17	24.86	25.22	24.98
Surrogate Recovery		% rec (65-1	75.6	66.4	71.1	93.6	93.5

DEP ID#		PQL	ALV-WHS-	ALV-WHS-	ALV-WHS-	ALV-WHS-	ALV-WHS-
WRI ID			00-469	00-470	00-471	00-472	00-473
EXT ID#			1169	1170	1172	1173	1174
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	0.258	<DL	0.160	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	0.200	<DL	0.200	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.356	0.512	0.664	0.160	0.259
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.357	0.200	0.335	0.243	0.363
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.855	0.795	1.225	2.687	1.665
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.871	0.824	1.066	1.854	1.541
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.528	0.160	0.341	0.258	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	0.359	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	3.679	2.258	1.664	1.254	1.069
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	3.244	1.895	1.323	4.665	2.065
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.887	<DL	<DL	0.451	<DL
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	1.214	0.654	0.898	0.510	1.130
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	0.760	<DL	0.958	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	0.240	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			59.95	42.57	37.58	69.99	40.46
Sample weight (g, wet weight)			25.00	25.00	25.02	25.05	24.90
Surrogate Recovery	% rec (65-1		101	65.6	78.4	65.4	72.1
DEP ID#		PQL	ALF-SMB-	ALF-SMB-	ALF-SMB-	ALF-SMB-	ALF-SMB-
WRI ID			00-384	00-385	00-386	00-387	00-388
EXT ID#			1124	1131	1125	1098	1099
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	0.200	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.280	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.775	0.894	0.362	1.668	4.332
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	0.360	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.556	0.418	0.775	1.760	0.401
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	0.388	<DL	0.426	0.502
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	0.200	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.789	1.154	0.964	0.559	1.125
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.771	0.695	0.884	1.036	1.224
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	0.687	0.714
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			15.8	17.7	14.9	34.4	41.5
Sample weight (g, wet weight)			25.02	24.86	24.86	25.00	24.93
Surrogate Recovery	% rec (65-1		69.6	110	83.3	72.4	93.5

DEP ID#		PQL	ALF-SMB-(	ALF-SMB-'	ALF-SMB-(	ALF-SMB-(	ALF-SMB-1
WRI ID			00-389	00-390	00-391	00-392	00-393
EXT ID#			1100	1102	1103	1104	1105
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	1.526	0.161	0.888	0.599	0.402
2,4,4'-Trichlorobiphenyl	28	0.5	0.843	2.889	0.444	3.036	0.281
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	0.525	0.360	0.241
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.569	0.884	0.612	0.748	0.502
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	0.841	<DL	0.564	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.674	1.554	1.116	0.547	0.334
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.854	0.647	1.155	1.064	0.887
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	0.995	0.871	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			22.3	34.9	26.7	38.9	13.2
Sample weight (g, wet weight)			24.91	24.92	24.77	25.03	24.88
Surrogate Recovery		% rec (65-1	67.2	81.1	88.1	90.7	77.7
DEP ID#		PQL	ALF-WHS-'	ALF-WHS-'	ALF-WHS-'	ALF-WHS-(	ALF-WHS-'
WRI ID			00-394	00-395	00-396	00-397	00-398
EXT ID#			1154	1155	1156	1157	1158
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	0.334	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	0.766	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.719	<DL	0.386	0.339	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	0.466	0.518	0.221	0.341
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.561	<DL	0.442	<DL	0.561
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	3.677	0.665	0.729	1.892	0.551
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.598	0.775	0.245	2.094	1.035
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	0.396	<DL	0.765	0.998
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	0.335	0.764
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	1.032	0.625	0.410	0.587	0.945
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	3.125	6.625	2.590	1.841	5.332
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	0.635	<DL	0.725	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			48.5	50.9	32.1	43.9	52.6
Sample weight (g, wet weight)			25.02	25.08	25.09	24.84	25.09
Surrogate Recovery		% rec (65-1	92.5	68.5	67.1	75.4	85.0

DEP ID#		PQL	ALF-WHS-(	ALF-WHS-'	ALF-WHS-(	ALF-WHS-(	ALF-WHS-
WRI ID			00-399	00-400	00-401	00-402	00-403
EXT ID#			1159	1160	1161	1162	1163
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	0.360	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	0.241	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.269	<DL	0.561	0.461	0.342
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	0.123	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.337	0.252	0.654	<DL	0.510
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	0.525	<DL	0.201	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	1.065	0.267	0.856	1.032	1.454
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.336	0.754	0.994	1.122	0.747
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	1.023	0.587	0.610	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	0.617	0.825	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.667	0.895	1.036	1.155	0.879
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	3.024	4.274	1.659	3.367	1.066
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.813	<DL	0.622	<DL	0.741
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	0.842	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			32.6	39.9	37.9	51.6	28.7
Sample weight (g, wet weight)			25.00	25.11	24.87	24.93	24.95
Surrogate Recovery		% rec (65-1	105	92.2	73.9	68.5	94.7
DEP ID#		PQL	AGI-SMB-1	AGI-SMB-2	AGI-SMB-3	AGI-SMB-4	AGI-SMB-5
WRI ID			00-120	00-121	00-122	00-123	00-124
EXT ID#			1150	1151	1299	1152	1153
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	0.366	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	0.280	<DL	0.733
2,4,5-Trichlorobiphenyl	29	0.5	2.750	1.558	2.369	3.357	3.894
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.355	0.268	0.441	0.307	0.258
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	0.122	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	1.150	0.985	0.778	1.036	0.885
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	0.361	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	<DL	<DL	<DL
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.254	0.330	0.258	0.187	0.457
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.351	0.552	0.440	0.487	0.402
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.395	<DL	<DL	<DL	1.351
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			31.5	22.6	24.1	28.8	39.8
Sample weight (g, wet weight)			25.21	24.95	24.99	24.91	25.17
Surrogate Recovery		% rec (65-1	66.3	78.8	95.2	67.4	75.2

DEP ID#		PQL	ALS-SMB-1	ALS-SMB-2	ALS-SMB-3	ALS-SMB-4	ALS-SMB-5
WRI ID			00-429	00-430	00-431	00-432	00-433
EXT ID#			1128	1129	1130	1132	1133
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	0.200	0.200	0.280	0.240	0.320
2,2',5-Trichlorobiphenyl	18	0.5	0.368	0.708	0.801	0.581	0.367
2,4,4'-Trichlorobiphenyl	28	0.5	2.760	1.950	1.908	2.118	2.098
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	0.240	<DL	0.280
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.365	0.544	0.678	0.265	0.661
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	1.105	0.984	2.042	1.657	1.224
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.894	0.775	1.025	0.687	0.994
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.745	0.623	0.858	0.428	0.798
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	1.254	0.200	<DL	0.701
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	0.240	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	0.521	0.422	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.995	1.321	0.847	0.654	0.598
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	1.254	1.657	2.065	1.114	0.978
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	0.400
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.564	0.784	0.669	0.721	0.611
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	0.959
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			46.25	56.60	60.17	43.53	54.94
Sample weight (g, wet weight)			25.00	25.05	25.00	25.00	25.02
Surrogate Recovery	% rec (65-1		95.5	91.8	83.1	78.8	87.7
DEP ID#		PQL	ARB-STB-1	ARB-STB-2	ARB-STB-3	ARB-STB-4	ARB-STB-5
WRI ID			00-640	00-641	00-642	00-643	00-644
EXT ID#			1395	1397	1398	1400	1403
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	0.662	0.714	0.574	0.332	0.258
2,2',5-Trichlorobiphenyl	18	0.5	0.248	<DL	0.383	0.821	1.118
2,4,4'-Trichlorobiphenyl	28	0.5	0.921	<DL	1.041	0.721	0.719
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.601	<DL	0.521	0.321	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.362	<DL	0.601	0.361	0.811
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	0.877	0.200	0.441	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.360	<DL	<DL	0.481	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	1.441	1.356	0.841	1.240	1.165
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	3.083	1.595	2.406	0.601	1.478
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	0.561	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.514	<DL	<DL	<DL	0.369
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	1.240	0.957	1.362	1.265	1.369
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	2.042	3.025	4.046	1.242	2.716
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	0.441	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	1.235	0.957	0.884	1.312	0.965
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	<DL	0.601	0.441	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.761	<DL	0.373	0.724	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	0.743	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			67.34	47.41	77.89	51.51	54.84
Sample weight (g, wet weight)			24.98	25.07	24.97	24.96	25.04
Surrogate Recovery	% rec (65-1		67.6	68.2	65.3	82.8	73.7

DEP ID#		PQL	ARO-BKT-1	ARO-BKT-2	ARO-WHS-1	ARO-WHS-2	ARO-WHS-3
WRI ID			00-730	00-731	00-732	00-733	00-734
EXT ID#			1287	1291	1284	1285	1286
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.281	0.467	0.245	0.341	0.625
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	0.200	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	0.481	0.669	0.745
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	0.801	0.789	0.637
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	0.481	0.554	0.601	0.521	0.199
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.321	0.469	1.212	0.368	0.239
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	1.026	0.754	0.358
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	1.042	1.470	1.843	0.889	0.677
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	2.486	1.695	1.766	0.803	1.234
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.698	1.256	2.203	0.562	0.518
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.625	0.774	1.996	0.602	0.995
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.962	0.160	0.361	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			34.48	34.22	63.67	31.49	31.14
Sample weight (g, wet weight)			24.94	24.94	24.96	24.91	25.11
Surrogate Recovery		% rec (65-1	91.9	89.7	126	91.2	101
DEP ID#		PQL	KNW-BNT-1	KNW-BNT-2	KNW-BNT-3	KNW-BNT-4	KNW-BNT-5
WRI ID			00-063	00-064	00-065	00-066	00-067
EXT ID#			1247	1248	1249	1250	1251
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	<DL	<DL	<DL
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	<DL	0.240	<DL	0.160	<DL
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.200	0.240	0.200	0.240	0.160
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	<DL	<DL	0.240	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	<DL	0.280	<DL	<DL	<DL
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.480	0.400	0.365	0.280	0.160
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			3.39	4.01	2.82	3.54	1.59
Sample weight (g, wet weight)			25.00	25.03	25.06	25.01	25.03
Surrogate Recovery		% rec (65-1	75.4	84.9	69.9	89.2	114

DEP ID#		PQL	KSD-BNT-1	KSD-BNT-2	KSD-BNT-3	KSD-BNT-4	KSD-BNT-5
WRI ID			00-058	00-059	00-060	00-061	00-062
EXT ID#			1241	1242	1243	1244	1246
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.199	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.566	0.712	0.524	0.665	0.756
2,4,5-Trichlorobiphenyl	29	0.5	0.624	0.802	0.698	0.799	0.836
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.487	0.248	0.336	0.265	0.676
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.259	0.661	0.854	1.199	0.438
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.514	0.265	0.457	0.320	1.711
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	0.478	0.158	0.302	0.226	0.159
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.332	0.154	0.624	0.894	1.791
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	<DL	<DL	<DL
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.279	0.336	<DL	0.600	1.671
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.399	<DL	<DL	0.959	0.199
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	<DL	0.189	0.225	0.240	<DL
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.199	<DL	<DL	0.440	0.318
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.279	0.406	0.487	0.326	0.239
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	0.879	1.025	0.559	0.748	1.552
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	0.514	<DL	<DL	0.119
Total PCBs			27.4	27.3	25.3	38.4	52.3
Sample weight (g, wet weight)			25.08	25.02	24.98	25.02	25.13
Surrogate Recovery		% rec (65-1	84.4	70.3	75.3	90.4	65.1
DEP ID#		PQL	KSD-SMB-1	KSD-SMB-2	KSD-SMB-3	KSD-SMB-4	KSD-SMB-5
WRI ID			00-650	00-651	00-652	00-653	00-654
EXT ID#			1299	1277	1278	1279	1280
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	0.602	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.401	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	0.200	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.351	0.568	0.442	<DL	0.340
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.962	<DL	<DL	0.775	0.591
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.841	<DL	<DL	0.511	0.498
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.532	0.239	<DL	<DL	<DL
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.723	<DL	<DL	0.279	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	0.533	<DL	<DL	0.451	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.481	0.657	0.544	0.754	0.468
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	1.520	1.336	1.745	1.438	1.062
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.628	1.239	0.602	0.717	0.842
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	1.049	0.559	0.923	1.115	0.963
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.805	<DL	0.201	0.199	0.201
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.327	0.239	0.481	0.319	0.401
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.421	<DL	0.201	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			48.87	24.18	28.69	32.78	26.83
Sample weight (g, wet weight)			24.96	25.11	24.93	25.11	24.93
Surrogate Recovery		% rec (65-1	92.3	80.6	132	105	65.2

DEP ID#		PQL	PBW-ATS-	PBV-ATS-1			
WRI ID			00-567	00-683			
EXT ID#			1263	1265			
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	0.400	<DL			
2,2',5-Trichlorobiphenyl	18	0.5	0.240	0.519			
2,4,4'-Trichlorobiphenyl	28	0.5	0.160	0.351			
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL			
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL			
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL			
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	0.559			
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL			
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.520	0.487			
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL			
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL			
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL			
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL			
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.280	0.519			
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.520	0.998			
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.200	0.239			
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.240	0.359			
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.440	0.519			
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL			
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL			
Total PCBs			15.00	22.75			
Sample weight (g, wet weight)			24.99	25.06			
Surrogate Recovery		% rec (65-1	102	120			
DEP ID#		PQL	PBB-EEL-(	PBB-EEL-(	PBB-EEL-(	PBB-EEL-C4	
WRI ID			00-478	00-475	00-474	00-476	
EXT ID#			1296	1293	1292	1294	
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	0.200	0.280	<DL	0.160	
2,2',5-Trichlorobiphenyl	18	0.5	1.480	0.360	0.400	9.623	
2,4,4'-Trichlorobiphenyl	28	0.5	1.880	1.440	0.960	1.457	
2,4,5-Trichlorobiphenyl	29	0.5	1.019	0.600	1.000	9.663	
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.880	0.880	0.240	2.236	
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	0.600	0.200	<DL	1.477	
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	3.520	<DL	1.920	6.349	
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	4.759	3.640	1.560	8.026	
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	1.520	0.760	<DL	1.398	
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	2.560	1.000	0.480	4.871	
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	0.240	0.280	
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.800	<DL	<DL	0.759	
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	5.879	3.280	1.120	7.706	
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	13.518	10.681	3.000	18.527	
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	6.959	2.800	1.120	6.109	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	4.639	5.321	1.520	10.941	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	9.759	5.258	0.320	1.797	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	0.480	<DL	<DL	<DL	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	
Total PCBs			302	183	69.4	457	
Sample weight (g, wet weight)			25.00	25.00	25.00	25.04	
Surrogate Recovery		% rec (65-1	131	89.2	105	94.5	

DEP ID#		PQL	RBP-BKT-1	RBP-BKT-2	RBP-BKT-3	RBP-BKT-4	RBP-BKT-5
WRI ID			00-033	00-034	00-035	00-036	00-037
EXT ID#			1252	1253	1255	1256	1257
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	0.227	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.359	<DL	<DL	<DL	0.528
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	0.366
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	0.162
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	0.609
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.718	0.838	0.440	0.590	1.381
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	<DL	0.162
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	0.718	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.160	0.160	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	<DL	<DL	0.528
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.479	0.519	0.400	0.545	1.218
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	1.197	0.878	0.801	0.998	1.990
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.239	0.239	0.160	0.272	1.097
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.439	0.359	0.400	0.318	0.853
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.918	0.838	<DL	<DL	0.774
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	0.160	0.160	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			25.6	18.9	12.6	14.7	47.3
Sample weight (g, wet weight)			25.06	25.07	24.98	22.03	24.62
Surrogate Recovery		% rec (65-1	128	81.8	65.3	82.2	81.9
DEP ID#		PQL	RBP-BKT-6	RBP-BKT-7	RBP-BKT-8	RBP-BKT-9	RBP-BKT-10
WRI ID			00-038	00-039	00-040	00-041	00-042
EXT ID#			1258	1259	1260	1261	1262
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	0.379	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.657	0.569	0.885	0.323	0.794
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	0.190	<DL	<DL	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	0.758	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	<DL	<DL	<DL
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	0.885	0.474	1.025	0.794	1.115
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.253	0.806	0.217	0.244	0.569
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.694	0.379	0.452	0.339	0.478
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.774	0.616	0.359	0.441	0.885
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	0.253	0.758	<DL	0.427	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			17.58	26.3	17.8	13.8	21.4
Sample weight (g, wet weight)			23.72	21.10	18.45	16.41	17.34
Surrogate Recovery		% rec (65-1	90.1	75.7	84.4	76.9	134

DEP ID#		PQL	SFS-SMB-1	SFS-SMB-2	SFS-SMB-3	SFS-SMB-4	SFS-SMB-5
WRI ID			00-645	00-646	00-647	00-648	00-649
EXT ID#			1270	1272	1273	1274	1275
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.479	<DL	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	<DL	<DL	<DL	<DL	<DL
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.841	0.794	0.668	0.942	1.036
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.799	0.527	0.841	0.481	0.558
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	1.256	2.584	1.897	3.065	2.457
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	2.401	1.021	2.664	1.602	1.995
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	4.265	2.365	4.441	3.025	2.497
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	7.099	3.335	8.410	4.012	5.199
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	0.638	0.814	0.814	0.762	0.917
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.639	0.000	0.400	0.160	0.399
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.839	0.383	0.721	0.000	0.479
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	0.400	0.481	0.239
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			96.28	59.11	106	72.66	78.88
Sample weight (g, wet weight)			25.03	20.88	24.98	24.93	25.07
Surrogate Recovery	% rec (65-1		86.6	66.5	80.1	108	84.8
DEP ID#		PQL	SRW-STB-1	SRW-STB-2	SRW-STB-3	SRW-STB-4	SRW-STB-5
WRI ID			00-068	00-069	00-070	00-071	00-072
EXT ID#			1109	1110	1112	1113	1114
Analytes							
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	0.098	0.099	<DL	<DL	<DL
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	0.575	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	0.119	0.160	<DL	<DL
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.256	0.304	0.187	<DL	0.298
2,2',4,6-Tetrachlorobiphenyl	50	0.5	0.117	<DL	0.120	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	<DL	<DL
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	1.172	0.437	0.220	0.240	0.854
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.469	0.298	0.339	0.421	0.398
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	<DL	<DL	0.100	<DL
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.558	0.754	0.389	0.289	0.778
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.336	0.198	0.458	0.778	0.547
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	<DL	<DL	0.745	<DL	0.665
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.137	0.514	0.687	0.140	0.428
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.313	0.199	0.402	0.260	0.336
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	0.487	1.065	<DL	1.241	0.874
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL	<DL
Total PCBs			20.4	25.5	26.9	19.7	31.5
Sample weight (g, wet weight)			51.20	50.30	50.10	50.00	50.10
Surrogate Recovery	% rec (65-1		75.3	66.1	67.2	75.4	75.2

DEP ID#		PQL	SRW-STB-6	SOS-STB-1	SOS-STB-2	SOS-STB-3
WRI ID			00-073	00-074	00-075	00-076
EXT ID#			1115	1116	1117	1119
Analytes						
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	<DL
2,2',5-Trichlorobiphenyl	18	0.5	<DL	<DL	<DL	0.300
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	<DL
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	0.400	0.380
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.447	0.304	0.451	0.560
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	<DL	<DL	<DL
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	0.300
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.755	0.721	1.185	0.660
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	0.487	0.220	0.382	0.520
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	<DL	0.401	0.357	0.380
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	<DL
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.805	0.336	0.614	0.260
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	0.551	<DL	<DL	<DL
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	<DL	<DL	<DL	<DL
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	<DL
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.698	0.556	0.611	0.000
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.287	1.857	0.321	0.260
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	<DL
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	<DL
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	<DL
Total PCBs			22.6	22.0	21.6	18.1
Sample weight (g, wet weight)			50.00	49.90	49.80	50.00
Surrogate Recovery		% rec (65-1	81.0	66.5	79.4	90.2
DEP ID#		PQL	SOS-STB-4	SOS-STB-5	SOS-STB-6	
WRI ID			00-077	00-078	00-079	
EXT ID#			1120	1122	1123	
Analytes						
2,4'-Dichlorobiphenyl	8	0.5	<DL	<DL	<DL	
2,2',5-Trichlorobiphenyl	18	0.5	<DL	0.279	<DL	
2,4,4'-Trichlorobiphenyl	28	0.5	<DL	<DL	<DL	
2,4,5-Trichlorobiphenyl	29	0.5	<DL	<DL	0.340	
2,2',3,5'-Tetrachlorobiphenyl	44	0.5	0.220	0.299	0.261	
2,2',4,6-Tetrachlorobiphenyl	50	0.5	<DL	0.120	<DL	
2,2',5,5'-Tetrachlorobiphenyl	52	0.5	<DL	<DL	<DL	
2,3',4,4'-Tetrachlorobiphenyl	66	0.5	0.359	0.578	0.226	
2,2',3,4,5'-Pentachlorobiphenyl	87	0.5	1.118	0.896	3.186	
2,2',4,5,5'-Pentachlorobiphenyl	101	0.5	0.739	0.458	0.321	
2,2',4,6,6'-Pentachlorobiphenyl	104	0.5	<DL	<DL	<DL	
2,2',3,3',4,4'-Hexachlorobiphenyl	128	1.0	0.459	0.610	0.541	
2,2',3,4,4',5'-Hexachlorobiphenyl	138	1.0	<DL	<DL	0.304	
2,2',4,4',5,5'-Hexachlorobiphenyl	153	1.0	<DL	<DL	0.350	
2,2',4,4',5,6'-Hexachlorobiphenyl	154	1.0	<DL	<DL	<DL	
2,2',3,4',5,5',6-Heptachlorobiphenyl	187	1.0	0.700	0.923	0.721	
2,2',3,4',5,6,6'-Heptachlorobiphenyl	188	1.0	0.559	0.677	2.365	
2,2',3,3',4,4',5,6-Octachlorobiphenyl	195	1.0	<DL	<DL	<DL	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	200	1.0	<DL	<DL	<DL	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	209	2.0	<DL	<DL	<DL	
Total PCBs			20.8	24.2	43.1	
Sample weight (g, wet weight)			50.10	50.20	49.90	
Surrogate Recovery		% rec (65-1	74.4	79.2	87.1	

Kennebec River. Previous data show elevated total PCB levels in brown trout and bass in Fairfield and below the former Edwards Dam in Augusta, but we had no similar data for Sidney or Skowhegan (upstream). With removal of the Edwards dam there was a need to sample 5 brown trout and 5 bass in the reach between Waterville and Augusta. There is also a need to sample 5 brown trout in Skowhegan. Collections were successful and the results show that concentrations in brown trout at Norridgewock were below the FTAL (11ppb). Concentrations at Sidney exceeded the FTAL, unlike the results from 1994, and were similar to those in smallmouth bass (Table 3.1.1.1). The concentrations were lower than those in brown trout at Fairfield and Augusta and those in smallmouth bass at Augusta, however.

Sebasticook Lake. White perch and largemouth bass caught on the East Branch of Sebasticook River at the inlet to Sebasticook Lake have been found to have elevated levels of dioxin TEQ and coplaner PCBs. There is one year of dioxin data for Sebasticook Lake but no PCB data and no data at all below this point until the main stem. Our goal was to get dioxin and coplanar PCB data on 2 composites of 5 largemouth bass and 2 composites of 5 white perch from Sebasticook Lake and possibly an additional location below the outlet for the lake. We were able to collect 8 smallmouth bass and 10 white perch from the lake. Fish were composited into 2 equal composites for each species. Results show that the TCDD levels were similar to those found in largemouth bass in the lake in 1992, but dioxin toxic equivalents (DTE) were higher than in 1992. Concentrations of both TCDD and DTE were higher than those found at Corinna, upstream of the former Eastland Woolen mill, but lower than those found at the inlet to the lake, downstream of the former mill. Concentrations in white perch were lower in the lake than at the inlet to the lake. Concentrationsof coplanar PCB toxic equivalents (CTE) were higher than DTE and similar to those in 1997 (1.2-1.7 ppt) (Table 3.1.1.3).

Table 3.1.1.2 Dioxin concentrations in fish from the East Branch Sebasticook River

YEAR	SPECIES	SEC TCDD	SEC DTE	SEN TCDD	SEN DTE	SLN TCDD	SLN DTE
1986	lmb			<0.2			
1990	whp			1.0	1.6-2.1		
1991							
1992	lmb/smb					0.1	0.3
1993							
1994							
1995	lmb	0.1	0.2-1.1	0.3	1.1-2.0		
1996	whp			0.3	1.6-2.3		
1997	lmb	<0.1	0.1-0.7	0.1	1.2-1.4		
1998							
1999							
2000	smb					0.1	0.5-0.8
	whp					0.2	0.8-0.9

lmb= largemouth bass, smb= smallmouth bass, whp= white perch
SEC= East Branch Sebasticook R at Corinna,
SEN= East Branch Sebasticook R at County Rd bridge inlet to lake at Newport
SLN= Sebasticook Lake
TCDD= 2378 tetrachlorodibenzo(p) dioxin, DTE= dioxin toxic equivalents

DEP ID WRI ID		SLN-SMB-C1 00-661-C1	SLN-SMB-C2 00-660-C2	SLN-SMB mean	SLN-WHP-C1 00-668-C1	SLN-WHP-C2 00-670-C2	SLN-WHP mean
Compound	**DL (ng/Kg)**						
2378-tcdf	0.11	0.31	0.25	0.28	0.51	0.42	0.47
12378-pecdf	0.25	<DL	<DL		<DL	<DL	
23478-pecdf	0.25	0.18	<DL		0.245	0.21	
123478-hxcdf	0.25	<DL	<DL		<DL	<DL	
123678-hxcdf	0.25	<DL	<DL		0.21	0.35	
234678-hxcdf	0.25	<DL	<DL		<DL	<DL	
123789-hxcdf	0.25	<DL	<DL		<DL	<DL	
1234678-hpcdf	0.50	0.45	0.56		0.69	0.74	
1234789-hpcdf	0.50	<DL	<DL		<DL	<DL	
ocdf	0.50	<DL	<DL		<DL	0.89	
2378-tcdd	0.10	0.09	0.05	0.07	0.15	0.18	0.17
12378-pecdd	0.25	0.34	0.28		0.39	0.21	
123478-hxcdd	0.25	0.25	0.53		0.62	0.31	
123678-hxcdd	0.25	0.41	0.35		0.21	0.49	
123789-hxcdd	0.25	<DL	<DL		<DL	<DL	
1234678-hpcdd	0.50	0.66	0.41		0.56	0.82	
ocdd	0.50	1.03	0.85		1.26	0.75	
DTEo		0.628	0.403	**0.52**	0.830	0.668	**0.75**
DTEd		0.771	0.770	**0.77**	0.948	0.785	**0.87**
DTEh		**0.70**	**0.59**	**0.64**	**0.89**	**0.73**	**0.81**
DTEh sd				**0.08**			**0.11**
DTEh Confidence				**0.11**			**0.16**
DTEh 95 UCL				**0.75**			**0.97**
% FTAL				**50**			**64**
% Lipids		1.092	0.764		2.685	2.539	
Sample weight (g)		50.1	50.1		50.0	50.0	

TOTAL PCB in fish

Environment Canada is concerned about PCBs from the former Loring Air Force Base site contaminating the Aroostook River which crosses the border at Ft. Fairfield. DEP and Environment Canada have developed a cooperative program where each sampled fish from one site in the river on their respective sides of the border for PCBs. Two brook trout and 3 white suckers were collected from the river approximately 0.5 miles below the confluence with the Little Madawaska River. Concentrations of total PCB in both species exeeded the BOH FTAL (11ppb) (Table 3.1.1.1).

Concentrations of PCB in filets of smallmouth bass captured by Environment Canada from the Aroostook River below the Tinker Dam, just across the US Canada border, in 2000 were all less than 20 ppt, the same order of magnitude as the results from our data from the river. However, various species of whole fish captured about 250 meters across the border in the Tinker headpond in 2001 had much higher concentrations and exceed Canadian TRGs for avian and mammals (Table 3.1.1.3). From previous Maine data, ratios of PCB in whole brown trout, smallmouth bass, and white suckers to that in filets ranged from 4.7 to 13.7. Using the lowest ratio to estimate worst case concentrations in filets results in a range of 27-76 ppt for these fish, exceeding Maine's FTAL, but within the same order of magnitude as Maine's results.

Table 3.1.1.3. PCB levels in whole fish from Tinker headpond, NB, Canada, 2001

Sample #	Species	Length, cm	Weight, g	Condition Coefficient*	Total PCB Ng/g (ppb)
1	Fall Fish	19.0	115	1.7	152
2	Fall Fish	18.9	105	1.6	157
3	Fall Fish	14.6	49	1.6	129
4	Common Shiner	10.1	17	1.7	172
5	Yellow Perch	19.5	99	1.3	211
6	Fall Fish	13.7	35	1.4	359
7	Fall Fish	14.4	47	1.6	185
8	Bullhead	21.2	157	1.6	310
9	White Sucker	23.3	153	1.2	203
10	Fall Fish	20.6	140	1.6	130

TRG in whole fish avian=95 ppt, mammals=70 ppt

* Condition Coefficient = weight/length^3 * 100

From Roy Parker, Environment Canada, Fredericton, NB

Coplanar PCB in Fish

In 2000 the SWAT program was again integrated with the Dioxin Monitoring Program (DMP) which has been in effect since 1988. All samples analyzed for dioxins were also analyzed for coplanar PCB. Mean coplanar PCB toxic equivalents (CTEh) varied in magnitude in relation to mean dioxin toxic equivalents (DTEh) as a percentage of total toxic equivalents (TTEh) (Table 3.1.1.4). All non-detects were calculated at half the detection limit. For comparison with the Bureau of Health (BOH) Fish Tissue Action Levels (FTAL), the 95th upper confidence were used. DTEh are compared to the cancer action level, FTALc=1.5 ppt, and the TTEh (sum of both CTEh and DTEh) are compared to the reproductive and developmental action level, FTALr=1.8 ppt for bass from all stations and in suckers from Norridgewock and Fairfield on the Kennebec River, which were filets. Results show no samples where DTEh exceeded the FTALc, but several where the TTEh exceeded the FTALr. For the suckers from other stations, which were analyzed as whole fish, the FTALc and FTALr are 5.25 ppt and 6.3 ppt respectively. No samples of suckers exceeded these action levels.

DDT in Fish

Most of this study was scheduled for 1999 but was not completed due to difficulty in catching fish. Results from previous SWAT fish tissue monitoring found significant levels of DDT and/or metabolites in fish from the North Branch of Presque Isle Stream in Mapleton and Prestile Stream in Mars Hill. As a result the Maine Bureau of Health has issued a fish consumption advisories (FCA) for those streams. Additional sampling was needed to determine the extent of contamination in other rivers and streams in Aroostook County. Fourteen rivers and streams were selected from high use agricultural areas to be sampled in 2000. Fish were collected from 10 waters including the North Branch of Presque Isle Stream and Prestile Stream, 5 streams in agricultural areas, 2 from the forested part of the county, and the one from the upper Androscoggin River. For the 5 new stations in agricultural areas, a minimum of 10 brook trout were collected from each station and analyzed as 2 composites of skinless fillets to assess impact to human consumers. For the two stations in forested watersheds, Beaver Brook. Meduxnekeag R, and for the North Branch of Presque Isle Stream and Prestile Stream, that were part of the fish effects study to be described later, 12 –28 brook trout were collected and analyzed individually. From the Androscoggin River, 5 rainbow trout used for dioxin analysis were also analyzed individually for total DDT.

Results show concentrations in the North Branch of Presque Isle Stream and Prestile Stream are lower than measured in 1994, although concentrations in fish from the Prestile Stream still exceed the BOH FTAL (64 ppt) as do those from Everett Brook (Table 3.1.1.5). Concentrations in fish from all other waters were below the FTAL.

Table 3.1.1.4 Coplanar PCB and dioxins in 2000 fish samples.

WATER/STATION	SPECIES	DTEh mean	CTEh mean	TTEh mean	DTEh 95%UCL	CTEh 95%UCL	TTEh 95%UCL
ANDROSCOGGIN R							
Gilead	rainbow trout	1.1	1	2.1	1.4	1.5	2.9
	brown trout	0.7	0.2	0.9	0.7	0.2	0.9
	bass	1.0	0.5	1.5	1.2	0.5	1.7
	sucker	2.0	2.3	4.3	2.3	3.3	5.6
Rumford	bass	0.8	1.1	1.9	0.9	1.3	2.2
	sucker	2.1	1.4	3.5	2.3	1.5	3.8
Riley	bass	0.4	2.6	3.0	0.5	3.2	3.7
	sucker						
Livermore Falls	bass	0.8	1.3	2.1	0.9	1.7	2.6
	sucker						
Auburn-GIP	bass sm	0.7	0.6	1.3	0.7	0.8	1.5
Lisbon Falls	bass	0.7	1.6	2.3	1.0	2.1	3.1
Androscoggin L	bass	0.7	0.1	0.8	0.8	0.1	0.9
	w perch	0.5	0.1	0.6	0.5	0.2	0.7
	sucker	0.6	0.3	0.9	0.6	0.3	0.9
KENNEBEC R							
Norridgewock	bass	0.4	0.3	0.7	0.4	0.4	0.8
	brown trout	0.4	0.7	1.1	0.4	0.9	1.3
	sucker	0.4	1.0	1.4	0.4	1.2	1.6
Fairfield	bass	0.8	0.2	1.0	0.9	0.2	1.1
	brown trout	0.5			0.6		
	sucker	0.8	1.0	1.8	0.9	1.3	2.2
Sidney	bass	0.5	1.0	1.5	0.6	1.4	2
	brown trout	0.6	0.7	1.3	0.7	0.9	1.6
PENOBSCOT R							
Woodville	bass	0.5	0.6	1.1	0.5	0.7	1.2
	sucker	0.4	1.0	1.4	0.4	1.1	1.5
Winn	bass	0.4			0.4		
	sucker	0.4			0.5		
S Lincoln	bass	0.6	1.0	1.6	0.7	1.1	1.8
	sucker	1.3	2.8	4.1	1.4	3.1	4.5
Milford	bass	0.6	1.2	1.8	0.8	1.8	2.6
	sucker	1.4	1.5	2.9	1.5	1.8	3.3
Veazie	bass	0.8	1.6	2.4	0.9	1.9	2.8
	sucker	1.4	2.5	3.9	1.5	2.7	4.2
	eel	2.3	3.2	5.5	2.6	3.4	6
PRESUMPSCOT R							
Windham	bass	0.4	0.6	1.0	0.5	0.7	1.2
Westbrook	bass	0.5	0.5	1.0	0.5	0.6	1.1
SALMON FALLS R							
S Berwick	sm bass	0.5	0.5	1.0	0.6	0.7	1.3
SEBASTICOOK R							
Sebasticook L	bass	0.6	1.3	1.9	0.8	1.4	2.2
	white perch	0.8	1.4	2.2	1.0	1.9	2.9
W Br Palmyra	bass	1.5	0.1	1.6	1.6	0.1	1.7

Coplanar PCB (CTE), Dioxin (DTE) and total (TTE) toxic eqiivalents using WHO 98 toxic equivalency factors (TEF) at ND=1/2 MDL.

DEP ID			AGL-RBT-1	AGL-RBT-2	AGL-RBT-3	AGL-RBT-4	AGL-RBT-5
WRI ID			00-48	00-49	00-50	00-51	00-52
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	21.6	18.7	36.4	20.6	15.3
2',3,4,4',5-PeCB	123	0.5	16.9	14.3	21.6	13.7	10.8
2,3',4,4',5-PeCB	118	0.5	52.3	31.8	106	24.2	35.9
2,3,4,4',5-PeCB	114	0.5	18.6	15.9	41.2	10.6	9.68
2,3,3',4,4'-PeCB	105	0.5	14.2	10.2	32.9	8.27	6.11
3,3',4,4',5-PeCB	126	0.5	9.65	7.75	18.3	5.06	5.30
2,3',4,4',5,5'-HxCB	167	1.0	3.81	4.91	5.27	3.39	2.68
2,3,3',4,4',5-HxCB	156	1.0	85.2	56.3	115	62.3	31.7
2,3,3',4,4',5'-HxCB	157	1.0	1.61	1.05	3.68	2.07	0.95
3,3',4,4',5,5'-HxCB	169	1.0	0.45	0.56	1.08	<DL	0.62
2,3,3',4,4',5,5'-HpCB	189	1.0	16.9	19.6	21.9	10.6	12.8
Total TEQ (ND=0)			1.034	0.827	1.943	0.551	0.565
Total TEQ (ND=DL)			1.034	0.827	1.943	0.551	0.565
% Lipids			1.62	1.05	2.12	0.93	0.81
Sample weight (g)			50.0	50.1	50.0	50.0	50.0

DEP ID			AGL-BNT-C1	ARP-WHS-C1	ARP-WHS-C2
WRI ID			00-43	00-415	00-414
congener	**IUPAC#**	**DL (ng/Kg)**			
3,3',4,4'-TCB	77	0.5	15.3	56.2	88.4
2',3,4,4',5-PeCB	123	0.5	2.65	31.4	41.2
2,3',4,4',5-PeCB	118	0.5	48.9	191	326
2,3,4,4',5-PeCB	114	0.5	10.3	13.6	21.5
2,3,3',4,4'-PeCB	105	0.5	3.56	34.2	74.8
3,3',4,4',5-PeCB	126	0.5	2.25	18.7	39.2
2,3',4,4',5,5'-HxCB	167	1.0	0.86	9.21	16.1
2,3,3',4,4',5-HxCB	156	1.0	21.4	112	188
2,3,3',4,4',5'-HxCB	157	1.0	0.25	8.21	6.35
3,3',4,4',5,5'-HxCB	169	1.0	<DL	2.24	1.24
2,3,3',4,4',5,5'-HpCB	189	1.0	6.21	37.3	59.8
Total TEQ (ND=0)			0.249	1.994	4.100
Total TEQ (ND=DL)			0.259	1.994	4.100
% Lipids			0.93	6.54	14.33
Sample weight (g)			50.1	50.0	50.0

DEP ID			ARP-SMB-1	ARP-SMB-2	ARP-SMB-3	ARP-SMB-4	ARP-SMB-5
WRI ID			00-404	00-405	00-406	00-407	00-408
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	5.28	10.6	8.75	15.4	6.69
2',3,4,4',5-PeCB	123	0.5	14.8	30.8	18.7	25.1	15.7
2,3',4,4',5-PeCB	118	0.5	144	85.6	167	291	185
2,3,4,4',5-PeCB	114	0.5	2.61	1.59	2.18	4.83	2.06
2,3,3',4,4'-PeCB	105	0.5	35.9	28.9	37.9	42.7	31.7
3,3',4,4',5-PeCB	126	0.5	2.87	3.30	4.01	4.85	3.39
2,3',4,4',5,5'-HxCB	167	1.0	2.11	5.97	8.63	10.3	2.47
2,3,3',4,4',5-HxCB	156	1.0	56.9	105	84.7	114	75.2
2,3,3',4,4',5'-HxCB	157	1.0	0.98	1.88	2.36	3.25	1.36
3,3',4,4',5,5'-HxCB	169	1.0	<DL	0.75	1.15	0.86	0.51
2,3,3',4,4',5,5'-HpCB	189	1.0	7.91	6.98	8.66	11.7	6.56
Total TEQ (ND=0)			0.338	0.408	0.481	0.593	0.408
Total TEQ (ND=DL)			0.348	0.408	0.481	0.593	0.408
% Lipids			0.26	0.68	0.60	1.16	0.29
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			ARP-SMB-6	ARP-SMB-7	ARP-SMB-8	ARP-SMB-9	ARP-SMB-10
WRI ID			00-409	00-410	00-411	00-412	00-413
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	18.7	6.61	12.8	24.1	18.4
2',3,4,4',5-PeCB	123	0.5	30.2	10.8	31.9	29.5	27.2
2,3',4,4',5-PeCB	118	0.5	245	169	154	321	234
2,3,4,4',5-PeCB	114	0.5	3.97	2.37	3.98	5.29	4.47
2,3,3',4,4'-PeCB	105	0.5	52.6	31.9	33.7	67.4	51.2
3,3',4,4',5-PeCB	126	0.5	6.01	3.36	3.94	5.14	4.81
2,3',4,4',5,5'-HxCB	167	1.0	7.84	2.89	7.21	8.68	5.29
2,3,3',4,4',5-HxCB	156	1.0	126	71.2	110	145	131
2,3,3',4,4',5'-HxCB	157	1.0	4.25	2.26	2.07	5.38	7.21
3,3',4,4',5,5'-HxCB	169	1.0	1.02	<DL	0.51	2.06	3.01
2,3,3',4,4',5,5'-HpCB	189	1.0	13.7	5.79	9.35	21.7	17.2
Total TEQ (ND=0)			0.714	0.396	0.481	0.659	0.617
Total TEQ (ND=DL)			0.714	0.406	0.481	0.659	0.617
% Lipids			1.34	0.36	0.78	2.18	0.86
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			ARF-SMB-1	ARF-SMB-2	ARF-SMB-3	ARF-SMB-4	ARF-SMB-5
WRI ID			00-434	00-435	00-436	00-437	00-438
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	16.2	15.6	14.2	20.6	10.1
2',3,4,4',5-PeCB	123	0.5	31.7	36.7	41.8	42.7	26.3
2,3',4,4',5-PeCB	118	0.5	296	321	335	384	225
2,3,4,4',5-PeCB	114	0.5	4.15	5.24	4.87	6.61	3.81
2,3,3',4,4'-PeCB	105	0.5	42.1	56.3	61.3	58.9	26.6
3,3',4,4',5-PeCB	126	0.5	6.69	10.2	8.58	15.2	8.32
2,3',4,4',5,5'-HxCB	167	1.0	7.81	9.55	10.6	13.6	7.24
2,3,3',4,4',5-HxCB	156	1.0	102	98.6	106	125	69.8
2,3,3',4,4',5'-HxCB	157	1.0	5.23	7.57	10.2	9.21	6.61
3,3',4,4',5,5'-HxCB	169	1.0	1.97	1.65	1.95	2.36	1.02
2,3,3',4,4',5,5'-HpCB	189	1.0	12.0	13.8	1537	18.7	10.4
Total TEQ (ND=0)			0.784	1.137	1.137	1.667	0.912
Total TEQ (ND=DL)			0.784	1.137	1.137	1.667	0.912
% Lipids			0.91	1.14	1.09	1.42	0.70
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			ARF-SMB-6	ARF-SMB-7	ARF-SMB-8	ARF-SMB-9	ARF-SMB-10
WRI ID			00-439	00-440	00-441	00-442	00-443
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	13.2	16.3	8.75	7.95	18.6
2',3,4,4',5-PeCB	123	0.5	34.5	30.2	22.2	27.3	38.7
2,3',4,4',5-PeCB	118	0.5	289	288	187	201	305
2,3,4,4',5-PeCB	114	0.5	6.02	3.98	2.71	3.26	5.01
2,3,3',4,4'-PeCB	105	0.5	42.3	49.7	20.3	22.4	62.1
3,3',4,4',5-PeCB	126	0.5	9.68	13.6	5.24	8.01	14.1
2,3',4,4',5,5'-HxCB	167	1.0	11.2	10.2	3.35	4.42	8.97
2,3,3',4,4',5-HxCB	156	1.0	81.7	91.3	51.1	45.3	109
2,3,3',4,4',5'-HxCB	157	1.0	7.01	8.33	4.02	7.12	11.6
3,3',4,4',5,5'-HxCB	169	1.0	1.52	1.41	0.94	0.75	1.25
2,3,3',4,4',5,5'-HpCB	189	1.0	9.94	16.9	6.52	8.96	17.2
Total TEQ (ND=0)			1.070	1.466	0.587	0.863	1.530
Total TEQ (ND=DL)			1.070	1.466	0.587	0.863	1.530
% Lipids			0.87	0.94	0.59	0.66	0.93
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			ARF-WHS-C1	ARF-WHS-C2
WRI ID			00-444	00-447
congener	**IUPAC#**	**DL (ng/Kg)**		
3,3',4,4'-TCB	77	0.5	25.6	30.6
2',3,4,4',5-PeCB	123	0.5	88.3	71.2
2,3',4,4',5-PeCB	118	0.5	491	463
2,3,4,4',5-PeCB	114	0.5	12.6	15.2
2,3,3',4,4'-PeCB	105	0.5	325	366
3,3',4,4',5-PeCB	126	0.5	13.7	11.7
2,3',4,4',5,5'-HxCB	167	1.0	48.1	41.2
2,3,3',4,4',5-HxCB	156	1.0	72.1	80.6
2,3,3',4,4',5'-HxCB	157	1.0	6.97	6.57
3,3',4,4',5,5'-HxCB	169	1.0	0.99	0.75
2,3,3',4,4',5,5'-HpCB	189	1.0	12.4	14.8
Total TEQ (ND=0)			1.520	1.324
Total TEQ (ND=DL)			1.520	1.324
% Lipids			14.29	14.25
Sample weight (g)			50.0	50.0

DEP ID			ARY-SMB-1	ARY-SMB-2	ARY-SMB-3	ARY-SMB-4	ARY-SMB-5
WRI ID			00-424	00-425	00-426	00-427	00-428
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	18.7	30.2	13.2	15.7	12.6
2',3,4,4',5-PeCB	123	0.5	22.6	26.7	18.6	20.4	16.5
2,3',4,4',5-PeCB	118	0.5	201	245	177	154	184
2,3,4,4',5-PeCB	114	0.5	14.6	22.8	13.5	20.6	18.6
2,3,3',4,4'-PeCB	105	0.5	82.4	69.7	48.5	71.9	62.5
3,3',4,4',5-PeCB	126	0.5	25.7	30.2	14.2	30.6	25.8
2,3',4,4',5,5'-HxCB	167	1.0	14.9	17.6	11.6	9.95	12.1
2,3,3',4,4',5-HxCB	156	1.0	127	118	98.7	75.8	113
2,3,3',4,4',5'-HxCB	157	1.0	20.3	25.3	14.3	18.6	15.6
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	13.6	15.9	8.81	10.2	7.42
Total TEQ (ND=0)			2.685	3.142	1.510	3.145	2.682
Total TEQ (ND=DL)			2.695	3.152	1.520	3.155	2.692
% Lipids			0.73	0.85	0.49	0.58	0.51
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			ALV-SMB-1	ALV-SMB-4	ALV-SMB-5	ALV-SMB-7	ALV-SMB-9
WRI ID			00-454	00-457	00-458	00-460	00-462
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	20.7	33.2	51.3	31.6	11.3
2',3,4,4',5-PeCB	123	0.5	75.2	94.5	124	102	26.9
2,3',4,4',5-PeCB	118	0.5	124	318	355	299	81.7
2,3,4,4',5-PeCB	114	0.5	5.98	12.6	16.7	14.3	2.58
2,3,3',4,4'-PeCB	105	0.5	41.2	61.8	72.5	75.7	23.6
3,3',4,4',5-PeCB	126	0.5	8.81	15.3	18.9	13.6	5.67
2,3',4,4',5,5'-HxCB	167	1.0	18.9	26.9	31.0	22.1	10.2
2,3,3',4,4',5-HxCB	156	1.0	77.6	127	144	151	49.6
2,3,3',4,4',5'-HxCB	157	1.0	10.5	13.2	16.9	15.7	6.37
3,3',4,4',5,5'-HxCB	169	1.0	<DL	0.85	1.02	0.88	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	9.14	11.6	13.7	14.6	5.25
Total TEQ (ND=0)			0.955	1.667	2.051	1.512	0.611
Total TEQ (ND=DL)			0.965	1.667	2.051	1.512	0.621
% Lipids			0.21	0.94	1.38	1.02	0.28
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			AGI-SMB-1	AGI-SMB-2	AGI-SMB-3	AGI-SMB-4	AGI-SMB-5
WRI ID			00-120	00-121	00-122	00-123	00-124
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	10.6	4.27	8.15	7.75	9.81
2',3,4,4',5-PeCB	123	0.5	68.9	21.9	41.6	50.2	55.6
2,3',4,4',5-PeCB	118	0.5	114	41.8	89.7	75.4	107
2,3,4,4',5-PeCB	114	0.5	18.5	10.2	25.6	26.9	21.6
2,3,3',4,4'-PeCB	105	0.5	25.2	11.6	24.2	15.7	32.3
3,3',4,4',5-PeCB	126	0.5	8.31	3.91	5.47	5.10	6.18
2,3',4,4',5,5'-HxCB	167	1.0	6.09	2.84	6.31	4.21	5.99
2,3,3',4,4',5-HxCB	156	1.0	74.5	29.8	54.5	63.8	61.4
2,3,3',4,4',5'-HxCB	157	1.0	10.0	3.69	13.9	9.41	11.2
3,3',4,4',5,5'-HxCB	169	1.0	0.89	<DL	0.91	0.51	0.74
2,3,3',4,4',5,5'-HpCB	189	1.0	14.1	5.97	13.2	10.5	15.7
Total TEQ (ND=0)			0.915	0.421	0.621	0.581	0.695
Total TEQ (ND=DL)			0.915	0.431	0.621	0.581	0.695
% Lipids			0.39	0.13	0.35	0.30	0.35
Sample weight (g)			50.0	50.1	50.1	50.0	50.0

DEP ID			ALS-SMB-1	ALS-SMB-2	ALS-SMB-3	ALS-SMB-4	ALS-SMB-5
WRI ID			00-429	00-430	00-431	00-432	00-433
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	25.3	13.6	11.6	21.3	9.95
2',3,4,4',5-PeCB	123	0.5	78.2	35.7	29.1	58.7	18.3
2,3',4,4',5-PeCB	118	0.5	201	125	132	187	101
2,3,4,4',5-PeCB	114	0.5	21.6	12.8	9.06	25.3	8.84
2,3,3',4,4'-PeCB	105	0.5	91.6	46.9	56.7	102	41.8
3,3',4,4',5-PeCB	126	0.5	30.2	18.7	10.3	25.6	14.5
2,3',4,4',5,5'-HxCB	167	1.0	14.6	18.4	10.7	22.6	11.3
2,3,3',4,4',5-HxCB	156	1.0	141	102	95.6	128	79.5
2,3,3',4,4',5'-HxCB	157	1.0	18.6	10.3	11.2	15.4	8.21
3,3',4,4',5,5'-HxCB	169	1.0	1.02	0.75	0.51	0.89	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	35.6	22.6	13.7	28.4	15.2
Total TEQ (ND=0)			3.164	1.965	1.117	2.693	1.517
Total TEQ (ND=DL)			3.164	1.965	1.117	2.693	1.527
% Lipids			0.72	0.36	0.27	0.66	0.23
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			ALW-SMB-C1	ALW-SMB-C2	ALW-WHP-C1	ALW-WHP-C2
WRI ID			00-83	00-81	00-90	00-93
congener	**IUPAC#**	**DL (ng/Kg)**				
3,3',4,4'-TCB	77	0.5	3.75	4.06	2.68	4.89
2',3,4,4',5-PeCB	123	0.5	5.95	9.68	23.6	35.6
2,3',4,4',5-PeCB	118	0.5	28.6	35.8	54.7	98.7
2,3,4,4',5-PeCB	114	0.5	0.41	0.51	3.33	5.28
2,3,3',4,4'-PeCB	105	0.5	6.87	9.67	8.25	11.6
3,3',4,4',5-PeCB	126	0.5	<DL	<DL	0.51	0.75
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	3.67	4.29
2,3,3',4,4',5-HxCB	156	1.0	16.7	15.3	74.2	105
2,3,3',4,4',5'-HxCB	157	1.0	3.97	4.21	5.12	6.99
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL	<DL	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	2.75	3.98	2.14	4.02
Total TEQ (ND=0)			0.015	0.016	0.101	0.149
Total TEQ (ND=DL)			0.075	0.076	0.111	0.159
% Lipids			0.19	0.25	2.00	2.46
Sample weight (g)			50.0	50.1	50.0	50.1

DEP ID ALW-WHS-C1 ALW-WHS-C2 **Rechecks**
WRI ID 00-100 00-101

congener	IUPAC#	DL (ng/Kg)		
3,3',4,4'-TCB	77	0.5	16.1	17.9
2',3,4,4',5-PeCB	123	0.5	102	97.6
2,3',4,4',5-PeCB	118	0.5	191	174
2,3,4,4',5-PeCB	114	0.5	6.35	5.26
2,3,3',4,4'-PeCB	105	0.5	26.3	31.8
3,3',4,4',5-PeCB	126	0.5	1.58	1.02
2,3',4,4',5,5'-HxCB	167	1.0	20.5	15.6
2,3,3',4,4',5-HxCB	156	1.0	236	201
2,3,3',4,4',5'-HxCB	157	1.0	10.4	7.48
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	11.5	5.69
Total TEQ (ND=0)			0.319	0.242
Total TEQ (ND=DL)			0.329	0.252
% Lipids			10.02	9.06
Sample weight (g)			50.2	50.1

DEP ID
WRI ID

congener	IUPAC#	DL (ng/Kg)
3,3',4,4'-TCB	77	0.5
2',3,4,4',5-PeCB	123	0.5
2,3',4,4',5-PeCB	118	0.5
2,3,4,4',5-PeCB	114	0.5
2,3,3',4,4'-PeCB	105	0.5
3,3',4,4',5-PeCB	126	0.5
2,3',4,4',5,5'-HxCB	167	1.0
2,3,3',4,4',5-HxCB	156	1.0
2,3,3',4,4',5'-HxCB	157	1.0
3,3',4,4',5,5'-HxCB	169	1.0
2,3,3',4,4',5,5'-HpCB	189	1.0
Total TEQ (ND=0)		
Total TEQ (ND=DL)		
% Lipids		
Sample weight (g)		

DEP ID WRI ID			ARP-SMB 00-408	ARP-SMB 00-409	ARP-SMB 00-411	ARP-SMB 00-412	ARP-SMB 00-413
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	9.15	16.2	8.21	15.3	20.1
2',3,4,4',5-PeCB	123	0.5	18.3	25.5	16.9	18.9	28.4
2,3',4,4',5-PeCB	118	0.5	204	215	121	228	247
2,3,4,4',5-PeCB	114	0.5	2.26	3.74	2.01	3.16	5.69
2,3,3',4,4'-PeCB	105	0.5	38.9	41.8	29.7	42.7	63.7
3,3',4,4',5-PeCB	126	0.5	5.11	6.63	3.21	2.66	5.58
2,3',4,4',5,5'-HxCB	167	1.0	5.94	8.01	4.68	5.81	6.29
2,3,3',4,4',5-HxCB	156	1.0	84.3	115	92.0	131	147
2,3,3',4,4',5'-HxCB	157	1.0	3.21	3.21	1.14	3.25	6.28
3,3',4,4',5,5'-HxCB	169	1.0	0.84	0.94	0.47	1.17	3.36
2,3,3',4,4',5,5'-HpCB	189	1.0	9.11	13.2	6.33	12.6	18.5
Total TEQ (ND=0)			0.592	0.765	0.392	0.378	0.709
Total TEQ (ND=DL)			0.592	0.765	0.392	0.378	0.709
% Lipids			0.85	1.11	0.45	0.81	1.37
Sample weight (g)			50.0	50.0	50.0	50.1	50.0

DEP ID WRI ID			ARP-SMB 00-404-c	AGL-RBT 00-48-c		ARP-WHS 00-415-c1	ARP-WHS 00-414-c2
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	6.91	16.4		48.1	52.7
2',3,4,4',5-PeCB	123	0.5	14.8	16.1		33.7	39.4
2,3',4,4',5-PeCB	118	0.5	107	33.8		224	251
2,3,4,4',5-PeCB	114	0.5	2.68	12.2		11.2	15.6
2,3,3',4,4'-PeCB	105	0.5	25.4	9.87		30.6	35.9
3,3',4,4',5-PeCB	126	0.5	3.94	8.33		15.1	14.0
2,3',4,4',5,5'-HxCB	167	1.0	3.87	5.96		10.9	11.6
2,3,3',4,4',5-HxCB	156	1.0	84.2	63.6		134	161
2,3,3',4,4',5'-HxCB	157	1.0	1.01	1.26		9.22	8.25
3,3',4,4',5,5'-HxCB	169	1.0	<DL	0.77		1.94	1.00
2,3,3',4,4',5,5'-HpCB	189	1.0	7.39	21.5		31.6	41.3
Total TEQ (ND=0)			0.454	0.889		1.644	1.545
Total TEQ (ND=DL)			0.464	0.889		1.644	1.545
% Lipids			0.34	1.30		6.91	6.18
Sample weight (g)			45.0	50.0		50.1	50.0

DEP ID			ARF-WHS	ARF-WHS
WRI ID			00-447-c2	00-444-c1
congener	**IUPAC#**	**DL (ng/Kg)**		
3,3',4,4'-TCB	77	0.5	22.4	28.9
2',3,4,4',5-PeCB	123	0.5	91.6	80.2
2,3',4,4',5-PeCB	118	0.5	462	441
2,3,4,4',5-PeCB	114	0.5	10.3	12.4
2,3,3',4,4'-PeCB	105	0.5	302	341
3,3',4,4',5-PeCB	126	0.5	14.7	10.2
2,3',4,4',5,5'-HxCB	167	1.0	45.2	38.6
2,3,3',4,4',5-HxCB	156	1.0	75.6	78.2
2,3,3',4,4',5'-HxCB	157	1.0	7.06	6.23
3,3',4,4',5,5'-HxCB	169	1.0	1.25	0.88
2,3,3',4,4',5,5'-HpCB	189	1.0	10.2	15.6
Total TEQ (ND=0)			1.618	1.168
Total TEQ (ND=DL)			1.618	1.168
% Lipids			14.7	15.0
Sample weight (g)			50.0	50.1

DEP ID			ALV-SMB	ALV-SMB	ALV-SMB	ALV-SMB	ALV-SMB
WRI ID			00-454	00-457*	00-458	00-460*	00-462*
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	8.85	24.7	29.2	33.6	10.8
2',3,4,4',5-PeCB	123	0.5	20.6	88.3	69.7	121	21.7
2,3',4,4',5-PeCB	118	0.5	98.7	285	241	326	92.5
2,3,4,4',5-PeCB	114	0.5	6.36	10.0	12.7	11.5	3.61
2,3,3',4,4'-PeCB	105	0.5	35.8	44.8	41.3	70.2	20.4
3,3',4,4',5-PeCB	126	0.5	11.2	12.2	10.2	11.6	6.94
2,3',4,4',5,5'-HxCB	167	1.0	8.95	18.6	11.9	20.9	13.5
2,3,3',4,4',5-HxCB	156	1.0	81.3	107	74.2	168	56.8
2,3,3',4,4',5'-HxCB	157	1.0	7.85	9.64	6.91	16.2	7.78
3,3',4,4',5,5'-HxCB	169	1.0	0.47	0.64	0.55	1.01	0.35
2,3,3',4,4',5,5'-HpCB	189	1.0	10.6	8.25	4.97	16.3	7.21
Total TEQ (ND=0)			1.190	1.335	1.111	1.325	0.747
Total TEQ (ND=DL)			1.190	1.335	1.111	1.325	0.747
% Lipids			0.21	0.64	0.43	0.91	0.27
Sample weight (g)			45.0	34.5	50.0	36.5	33.0

DEP ID WRI ID			ALS-SMB 00-429*	ALS-SMB 00-430	ALS-SMB 00-431	ALS-SMB 00-432	ALS-SMB 00-433
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	10.8	9.95	12.6	23.7	10.5
2',3,4,4',5-PeCB	123	0.5	28.7	23.8	31.5	64.8	25.6
2,3',4,4',5-PeCB	118	0.5	69.7	74.2	114	201	102
2,3,4,4',5-PeCB	114	0.5	4.44	5.12	8.75	19.2	7.57
2,3,3',4,4'-PeCB	105	0.5	20.9	27.9	51.3	116	49.8
3,3',4,4',5-PeCB	126	0.5	6.12	8.25	8.91	18.5	7.21
2,3',4,4',5,5'-HxCB	167	1.0	7.21	11.3	13.6	20.6	10.2
2,3,3',4,4',5-HxCB	156	1.0	69.8	62.1	88.6	157	73.6
2,3,3',4,4',5'-HxCB	157	1.0	7.16	5.06	10.1	18.7	8.51
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL	0.77	1.02	0.51
2,3,3',4,4',5,5'-HpCB	189	1.0	9.12	7.75	15.7	21.9	12.6
Total TEQ (ND=0)			0.667	0.876	0.975	2.001	0.791
Total TEQ (ND=DL)			0.677	0.886	0.975	2.001	0.791
% Lipids			0.16	0.17	0.26	0.56	0.25
Sample weight (g)			20.0	45.0	50.1	50.1	43.0

DEP ID WRI ID			ALW-SMB 00-80-c2	ALW-SMB 00-83-c1	ALW-WHS 00-100-c1	ALW-WHS 00-101-c2
congener	**IUPAC#**	**DL (ng/Kg)**				
3,3',4,4'-TCB	77	0.5	5.12	4.98	15.7	14.3
2',3,4,4',5-PeCB	123	0.5	10.30	9.15	98.2	101
2,3',4,4',5-PeCB	118	0.5	28.9	33.8	205	184
2,3,4,4',5-PeCB	114	0.5	0.68	0.42	5.14	6.31
2,3,3',4,4'-PeCB	105	0.5	11.30	8.85	30.4	33.9
3,3',4,4',5-PeCB	126	0.5	<DL	<DL	1.07	0.97
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	21.6	18.6
2,3,3',4,4',5-HxCB	156	1.0	14.2	12.6	201	223
2,3,3',4,4',5'-HxCB	157	1.0	5.91	4.01	11.6	9.89
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL	<DL	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	4.47	3.26	10.7	6.08
Total TEQ (ND=0)			0.016	0.015	0.252	0.251
Total TEQ (ND=DL)			0.076	0.075	0.262	0.261
% Lipids			0.37	0.31	10.2	8.61
Sample weight (g)			50.0	50.1	50.1	50.1

DEP ID			KNW-BNT-1	KNW-BNT-2	KNW-BNT-3	KNW-BNT-4	KNW-BNT-5
WRI ID			00-63	00-64	00-65	00-66	00-67
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	4.01	4.38	2.95	5.22	7.26
2',3,4,4',5-PeCB	123	0.5	3.22	2.79	1.88	3.07	4.12
2,3',4,4',5-PeCB	118	0.5	35.1	74.9	48.2	65.2	126
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	6.15	7.51	3.66	6.61	13.4
3,3',4,4',5-PeCB	126	0.5	4.01	6.24	3.79	5.32	10.6
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	73.2	103	64.2	98.4	167
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	0.98	1.16	1.44	2.03	2.66
2,3,3',4,4',5,5'-HpCB	189	1.0	10.2	12.3	8.15	15.4	18.7
CTEo			0.453	0.697	0.432	0.611	1.187
CTEd			0.454	0.698	0.433	0.612	1.188
CTEh			**0.454**	**0.698**	**0.432**	**0.611**	**1.187**
Lipid (g)			0.35	0.74	0.30	0.69	1.39
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID		
WRI ID		
Congener	**IUPAC#**	**DL (ng/Kg)**
3,3',4,4'-TCB	77	0.5
2',3,4,4',5-PeCB	123	0.5
2,3',4,4',5-PeCB	118	0.5
2,3,4,4',5-PeCB	114	0.5
2,3,3',4,4'-PeCB	105	0.5
3,3',4,4',5-PeCB	126	0.5
2,3',4,4',5,5'-HxCB	167	1.0
2,3,3',4,4',5-HxCB	156	1.0
2,3,3',4,4',5'-HxCB	157	1.0
3,3',4,4',5,5'-HxCB	169	1.0
2,3,3',4,4',5,5'-HpCB	189	1.0
CTEo		
CTEd		
CTEh		
Lipid (g)		
Sample weight (g)		

DEP ID			KNW-SMB-1	KNW-SMB-2	KNW-SMB-3	KNW-SMB-4	KNW-SMB-5
WRI ID			00-125	00-126	00-237	00-238	00-239
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	1.74	1.02	3.48	3.12	1.34
2',3,4,4',5-PeCB	123	0.5	2.02	2.14	7.29	4.02	3.33
2,3',4,4',5-PeCB	118	0.5	34.4	26.3	77.4	31.4	29.7
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	1.97	1.66	5.21	2.48	3.17
3,3',4,4',5-PeCB	126	0.5	1.88	2.51	4.26	3.66	4.14
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	32.6	35.7	120	86.4	71.5
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL	1.06	0.56	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	3.48	4.91	13.2	2.66	6.25
CTEo			0.209	0.272	0.507	0.419	0.454
CTEd			0.219	0.283	0.508	0.420	0.465
CTEh			**0.214**	**0.278**	**0.508**	**0.420**	**0.460**
Lipid (g)			0.23	0.17	0.91	0.62	0.37
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			KNW-SMB-6	KNW-SMB-7	KNW-SMB-8	KNW-SMB-9	KNW-SMB-10
WRI ID			00-240	00-241	00-242	00-243	00-244
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	1.89	3.89	3.05	2.41	3.36
2',3,4,4',5-PeCB	123	0.5	2.24	4.75	5.14	5.47	4.38
2,3',4,4',5-PeCB	118	0.5	22.8	33.6	29.8	41.6	38.6
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	2.17	4.02	3.78	3.55	2.79
3,3',4,4',5-PeCB	126	0.5	1.61	2.66	2.97	2.47	3.05
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	30.9	68.7	61.0	81.1	37.5
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	<DL	<DL	<DL	0.88	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	3.71	5.13	4.66	7.16	2.48
CTEo			0.180	0.305	0.332	0.302	0.329
CTEd			0.190	0.316	0.343	0.303	0.340
CTEh			**0.185**	**0.311**	**0.338**	**0.303**	**0.334**
Lipid (g)			0.28	0.66	0.51	0.80	0.27
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			KNW-SSMB-1	KNW-SSMB-2	KNW-SSMB-3	KNW-SSMB-4	KNW-SSMB-5
WRI ID			00-568	00-569	00-570	00-571	00-572
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	4.99	6.09	5.48	6.42	5.06
2',3,4,4',5-PeCB	123	0.5	5.36	3.15	5.04	6.94	5.24
2,3',4,4',5-PeCB	118	0.5	25.8	42.8	30.8	38.7	40.2
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	2.54	3.54	4.01	5.59	4.87
3,3',4,4',5-PeCB	126	0.5	2.49	4.06	3.64	4.78	4.25
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	22.3	33.8	24.2	44.3	31.6
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	3.30	4.16	3.78	3.06	2.25
2,3,3',4,4',5,5'-HpCB	189	1.0	3.91	3.75	4.26	4.77	3.67
CTEo			0.297	0.470	0.419	0.537	0.469
CTEd			0.298	0.471	0.420	0.538	0.470
CTEh			**0.298**	**0.471**	**0.419**	**0.537**	**0.470**
Lipid (g)			3.34	3.89	3.67	4.42	3.53
Sample weight (g)			50.1	49.9	50.1	49.9	50.0

DEP ID			KNW-SSMB-6	KNW-SSMB-7	KNW-SSMB-8	KNW-SSMB-9	KNW-SSMB-10
WRI ID			00-573	00-574	00-575	00-576	00-577
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	4.75	3.89	5.94	8.41	6.88
2',3,4,4',5-PeCB	123	0.5	4.69	3.66	6.25	9.67	7.21
2,3',4,4',5-PeCB	118	0.5	31.8	28.7	35.5	50.3	42.1
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	4.22	3.91	5.17	5.06	6.63
3,3',4,4',5-PeCB	126	0.5	3.84	2.15	4.88	5.84	5.24
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	28.9	36.7	40.5	45.7	51.7
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	1.55	1.97	2.75	3.99	3.26
2,3,3',4,4',5,5'-HpCB	189	1.0	2.47	3.02	4.91	5.08	5.97
CTEo			0.419	0.257	0.542	0.655	0.589
CTEd			0.420	0.258	0.542	0.655	0.590
CTEh			**0.419**	**0.258**	**0.542**	**0.655**	**0.590**
Lipid (g)			3.17	2.42	3.84	5.55	5.88
Sample weight (g)			50.1	46.0	50.1	46.0	40.0

DEP ID			KNW-WHS-C1	KNW-WHS-C2	KNW-WHS-C3	KNW-WHS-C4	KNW-WHS-C5
WRI ID			00-129-c1	00-146-c2	00-134-c3	00-139-c4	00-127-c5
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	15.7	18.9	15.4	14.3	10.6
2',3,4,4',5-PeCB	123	0.5	16.4	20.2	16.7	11.6	9.41
2,3',4,4',5-PeCB	118	0.5	159	176	188	135	127
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	14.2	16.3	13.2	12.4	10.7
3,3',4,4',5-PeCB	126	0.5	6.32	8.51	14.7	5.73	6.71
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	106	121	97.5	103	117
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	12.5	15.3	7.21	11.6	8.45
2,3,3',4,4',5,5'-HpCB	189	1.0	13.1	14.7	9.65	10.2	11.3
CTEo			0.832	1.089	1.615	0.759	0.831
CTEd			0.833	1.090	1.616	0.760	0.832
CTEh			**0.832**	**1.089**	**1.616**	**0.759**	**0.831**
Lipid (g)			2.57	2.67	3.42	3.12	2.41
Sample weight (g)			50.1	50.1	50.1	50.1	50.1

DEP ID			KNW-WHS-C6	KNW-WHS-C7	KNW-WHS-C8	KNW-WHS-C9	KNW-WHS-C10
WRI ID			00-130-c6	00-131-c7	00-135-c8	00-133-c9	00-151-c10
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	13.7	12.7	9.84	20.3	18.6
2',3,4,4',5-PeCB	123	0.5	11.6	13.4	8.58	18.4	15.2
2,3',4,4',5-PeCB	118	0.5	147	127	106	166	132
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	13.7	9.21	7.23	18.0	14.7
3,3',4,4',5-PeCB	126	0.5	9.89	11.9	5.81	7.25	6.69
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	156	127	94.3	134	115
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	10.5	8.10	6.31	19.5	22.6
2,3,3',4,4',5,5'-HpCB	189	1.0	16.9	9.81	8.07	17.1	15.4
CTEo			1.192	1.352	0.705	1.011	0.972
CTEd			1.193	1.352	0.706	1.012	0.973
CTEh			**1.193**	**1.352**	**0.706**	**1.011**	**0.972**
Lipid (g)			3.35	2.17	2.23	2.95	2.81
Sample weight (g)			50.1	50.0	50.1	50.0	50.1

DEP ID			KFF-SMB-1	KFF-SMB-2	KFF-SMB-3	KFF-SMB-4	KFF-SMB-5
WRI ID			00-247	00-248	00-249	00-250	00-251
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	3.24	4.02	4.65	3.84	2.81
2',3,4,4',5-PeCB	123	0.5	10.2	5.36	4.21	3.15	3.66
2,3',4,4',5-PeCB	118	0.5	50.1	41.7	31.6	42.6	53.7
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	5.36	3.06	1.51	2.88	5.03
3,3',4,4',5-PeCB	126	0.5	1.78	2.45	2.04	2.45	1.15
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	61.9	49.7	28.9	31.6	47.6
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	1.24	0.75	2.05	1.27	2.11
2,3,3',4,4',5,5'-HpCB	189	1.0	6.11	5.07	6.91	4.55	3.51
CTEo			0.229	0.283	0.244	0.279	0.167
CTEd			0.230	0.284	0.245	0.280	0.168
CTEh			**0.229**	**0.284**	**0.244**	**0.280**	**0.167**
Lipid (g)			0.63	0.90	1.39	0.80	0.62
Sample weight (g)			50.0	50.0	50.0	50.0	50.1

DEP ID			KFF-SMB-6	KFF-SMB-7	KFF-SMB-8	KFF-SMB-9	KFF-SMB-10
WRI ID			00-252	00-253	00-254	00-255A	00-255B
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	3.51	2.98	4.21	3.25	1.55
2',3,4,4',5-PeCB	123	0.5	2.84	1.87	3.42	1.74	0.52
2,3',4,4',5-PeCB	118	0.5	56.7	46.3	43.6	37.5	31.6
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	4.87	4.28	5.29	3.21	0.98
3,3',4,4',5-PeCB	126	0.5	1.56	0.83	1.26	1.06	0.75
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	33.7	49.7	41.3	37.8	31.5
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	1.88	1.48	1.81	1.25	0.84
2,3,3',4,4',5,5'-HpCB	189	1.0	4.42	5.37	6.31	3.66	2.42
CTEo			0.199	0.129	0.171	0.142	0.103
CTEd			0.200	0.129	0.172	0.143	0.104
CTEh			**0.199**	**0.129**	**0.171**	**0.143**	**0.103**
Lipid (g)			0.99	0.95	0.73	1.00	0.40
Sample weight (g)			50.1	50.1	50.0	50.0	50.0

DEP ID			KFF-SSMB-1	KFF-SSMB-2	KFF-SSMB-3	KFF-SSMB-4	KFF-SSMB-5
WRI ID			00-343	00-344	00-345	00-346	00-347
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	4.06	4.29	7.66	4.26	3.92
2',3,4,4',5-PeCB	123	0.5	12.4	11.3	22.3	12.6	11.0
2,3',4,4',5-PeCB	118	0.5	48.9	41.6	70.1	30.6	35.3
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	10.3	8.06	8.41	6.87	5.42
3,3',4,4',5-PeCB	126	0.5	3.26	4.12	7.22	4.26	6.91
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	41.8	32.8	70.3	69.3	41.3
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	1.54	2.07	2.95	1.75	1.05
2,3,3',4,4',5,5'-HpCB	189	1.0	6.37	4.21	6.05	4.98	3.21
CTEo			0.371	0.456	0.798	0.484	0.728
CTEd			0.371	0.457	0.799	0.485	0.729
CTEh			**0.371**	**0.456**	**0.798**	**0.484**	**0.728**
Lipid (g)			3.43	3.33	4.89	3.92	3.55
Sample weight (g)			50.1	50.0	50.1	50.0	50.0

DEP ID			KFF-SSMB-6	KFF-SSMB-7	KFF-SSMB-8	KFF-SSMB-9	KFF-SSMB-10
WRI ID			00-348	00-349	00-350	00-351	00-352
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	5.08	6.33	7.01	6.58	7.91
2',3,4,4',5-PeCB	123	0.5	12.9	14.2	18.9	20.3	24.3
2,3',4,4',5-PeCB	118	0.5	51.8	60.4	84.2	77.2	85.9
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	9.22	9.41	9.14	13.4	11.2
3,3',4,4',5-PeCB	126	0.5	5.97	6.89	6.63	5.59	4.69
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	57.9	61.4	62.5	74.6	88.2
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	2.99	2.03	2.54	2.99	3.36
2,3,3',4,4',5,5'-HpCB	189	1.0	5.31	6.49	7.61	9.54	10.1
CTEo			0.664	0.750	0.732	0.639	0.561
CTEd			0.665	0.750	0.733	0.640	0.561
CTEh			**0.665**	**0.750**	**0.733**	**0.639**	**0.561**
Lipid (g)			4.39	4.58	4.88	5.51	6.70
Sample weight (g)			50.1	50.1	50.0	50.0	44.2

DEP ID			KFF-WHS-C1	KFF-WHS-C2	KFF-WHS-C3	KFF-WHS-C4	KFF-WHS-C5
WRI ID			00-177-c1	00-213-c2	00-209-c3	00-189-c4	00-193-c5
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	4.61	5.31	5.24	6.58	4.26
2',3,4,4',5-PeCB	123	0.5	2.34	12.8	10.6	13.8	11.3
2,3',4,4',5-PeCB	118	0.5	154	224	147	206	105
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	2.21	9.45	5.21	8.51	4.26
3,3',4,4',5-PeCB	126	0.5	7.02	13.7	13.4	15.7	8.69
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	162	227	188	203	148
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	4.81	10.3	8.85	7.14	8.61
2,3,3',4,4',5,5'-HpCB	189	1.0	9.78	32.6	21.6	36.9	24.3
CTEo			0.848	1.615	1.541	1.770	1.044
CTEd			0.849	1.616	1.542	1.771	1.045
CTEh			**0.849**	**1.615**	**1.542**	**1.770**	**1.044**
Lipid (g)			1.94	4.22	3.98	4.13	3.41
Sample weight (g)			50.1	50.1	50.0	50.1	49.9

DEP ID			KFF-WHS-C6	KFF-WHS-C7	KFF-WHS-C8	KFF-WHS-C9	KFF-WHS-C10
WRI ID			00-184-c6	00-188-c7	00-179-c8	00-192-c9	00-181-c10
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	2.11	3.78	4.06	4.78	3.35
2',3,4,4',5-PeCB	123	0.5	1.89	8.89	9.55	7.21	4.05
2,3',4,4',5-PeCB	118	0.5	88.1	82.4	105	122	75.3
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	3.01	3.27	4.17	5.32	2.88
3,3',4,4',5-PeCB	126	0.5	1.69	6.77	3.66	5.87	5.09
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	120	109	214	175	141
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	5.72	4.26	6.25	7.78	6.38
2,3,3',4,4',5,5'-HpCB	189	1.0	8.35	11.9	15.6	20.7	18.9
CTEo			0.297	0.785	0.549	0.768	0.654
CTEd			0.297	0.786	0.550	0.769	0.655
CTEh			**0.297**	**0.786**	**0.550**	**0.769**	**0.654**
Lipid (g)			1.06	3.01	3.34	3.68	2.77
Sample weight (g)			50.1	49.8	50.0	50.1	50.0

DEP ID			KSD-BNT-1	KSD-BNT-2	KSD-BNT-3	KSD-BNT-4	KSD-BNT-5
WRI ID			00-58	00-59	00-60	00-61	00-62
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	7.06	4.25	8.14	7.55	10.5
2',3,4,4',5-PeCB	123	0.5	7.22	3.61	6.25	5.36	11.6
2,3',4,4',5-PeCB	118	0.5	35.6	25.9	59.7	49.1	106
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	5.81	2.26	4.81	5.06	6.32
3,3',4,4',5-PeCB	126	0.5	6.02	3.87	6.37	5.24	8.51
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	48.7	31.6	65.7	59.3	84.2
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	4.59	2.05	5.21	4.06	6.25
2,3,3',4,4',5,5'-HpCB	189	1.0	18.3	6.38	22.6	16.8	30.5
CTEo			0.680	0.428	0.732	0.603	0.972
CTEd			0.680	0.428	0.733	0.603	0.973
CTEh			**0.680**	**0.428**	**0.732**	**0.603**	**0.972**
Lipid (g)			0.80	0.14	1.34	0.83	2.43
Sample weight (g)			50.1	50.0	50.0	50.1	50.1

DEP ID			KSD-SMB-1	KSD-SMB-2	KSD-SMB-3	KSD-SMB-4	KSD-SMB-5
WRI ID			00-650	00-651	00-652	00-653	00-654
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	111.5	9.01	13.1	9.15	7.55
2',3,4,4',5-PeCB	123	0.5	20.6	16.8	24.6	13.4	13.2
2,3',4,4',5-PeCB	118	0.5	225	172	191	155	124
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	14.5	12.3	15.4	14.2	9.95
3,3',4,4',5-PeCB	126	0.5	14.0	6.72	9.26	6.45	1.65
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	188	154	241	184	136
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	16.3	13.7	13.4	13.6	12.5
2,3,3',4,4',5,5'-HpCB	189	1.0	21.4	20.5	19.7	14.8	16.9
CTEo			1.696	0.909	1.207	0.894	0.375
CTEd			1.697	0.910	1.208	0.894	0.376
CTEh			**1.697**	**0.909**	**1.207**	**0.894**	**0.376**
Lipid (g)							
Sample weight (g)							

DEP ID			PBW-SMB-2	PBW-SMB-3	PBW-SMB-6	PBW-SMB-7	PBW-SMB-9
WRI ID			00-509	00-510	00-511	00-512	00-513
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	5.52	7.31	3.02	2.43	5.88
2',3,4,4',5-PeCB	123	0.5	6.43	4.97	1.36	1.15	5.01
2,3',4,4',5-PeCB	118	0.5	153	165	45.6	51.2	121
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	5.34	8.21	<DL	0.45	4.42
3,3',4,4',5-PeCB	126	0.5	6.21	8.76	2.26	3.95	6.05
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	131	176	71.2	55.2	145
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	4.72	6.79	1.54	1.97	5.76
2,3,3',4,4',5,5'-HpCB	189	1.0	5.23	7.32	2.03	2.39	5.88
Total TEQ (ND=0)			0.751	1.051	0.282	0.448	0.749
Total TEQ (ND=DL)			0.752	1.052	0.283	0.449	0.750
% Lipids			0.82	1.03	0.19	0.26	0.69
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			PBW-SMB-10	PBW-SMB-12	PBW-SMB-13	PBW-SMB-14	PBW-SMB-16
WRI ID			00-514	00-515	00-516	00-517	00-518
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	2.75	3.25	5.47	3.66	4.75
2',3,4,4',5-PeCB	123	0.5	5.61	3.91	6.48	3.07	4.01
2,3',4,4',5-PeCB	118	0.5	148	57.2	88.7	66.5	78.2
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	6.62	0.75	4.15	<DL	1.06
3,3',4,4',5-PeCB	126	0.5	7.91	4.58	6.37	4.03	3.59
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	134	49.1	66.9	94.5	62.7
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	4.27	1.14	4.17	<DL	5.15
2,3,3',4,4',5,5'-HpCB	189	1.0	5.91	3.67	5.29	3.28	2.64
Total TEQ (ND=0)			0.918	0.501	0.723	0.458	0.451
Total TEQ (ND=DL)			0.918	0.502	0.724	0.469	0.452
% Lipids			0.99	0.33	0.53	0.25	0.45
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

Values less than the established MDLs are to be considered estimated values.

DEP ID			PBW-WHS-3	PBW-WHS-4	PBW-WHS-5	PBW-WHS-8	PBW-WHS-11
WRI ID			00-367	00-368	00-369	00-372	00-375
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	15.7	8.85	10.5	13.7	6.22
2',3,4,4',5-PeCB	123	0.5	22.3	15.9	18.4	20.4	9.21
2,3',4,4',5-PeCB	118	0.5	250	199	205	261	174
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	11.8	7.24	8.14	12.9	7.42
3,3',4,4',5-PeCB	126	0.5	8.65	5.58	8.00	10.1	6.92
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	242	169	188	238	163
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	18.4	10.5	16.9	20.2	11.4
2,3,3',4,4',5,5'-HpCB	189	1.0	10.0	11.9	14.8	13.6	8.85
Total TEQ (ND=0)			1.201	0.772	1.089	1.363	0.908
Total TEQ (ND=DL)			1.202	0.773	1.089	1.364	0.909
% Lipids			6.56	3.68	4.12	6.22	3.27
Sample weight (g)			50.0	49.9	50.1	50.1	50.1

DEP ID			PBW-WHS-12	PBW-WHS-13	PBW-WHS-15	PBW-WHS-16	PBW-WHS-19
WRI ID			00-376	00-377	00-378	00-379	00-381
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	7.04	12.4	9.51	10.4	16.1
2',3,4,4',5-PeCB	123	0.5	8.85	14.6	11.3	15.1	16.4
2,3',4,4',5-PeCB	118	0.5	159	221	187	225	242
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	6.39	10.7	6.23	8.54	15.1
3,3',4,4',5-PeCB	126	0.5	4.41	8.37	5.18	6.37	7.15
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	144	196	157	206	215
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	9.57	17.3	15.8	14.2	17.9
2,3,3',4,4',5,5'-HpCB	189	1.0	5.69	10.2	8.85	10.6	11.6
Total TEQ (ND=0)			0.627	1.135	0.777	0.909	1.032
Total TEQ (ND=DL)			0.628	1.136	0.778	0.910	1.032
% Lipids			2.88	4.63	4.00	4.00	4.93
Sample weight (g)			50.1	49.9	49.9	50.1	50.0

Values less than the established MDLs ar

DEP ID			PBL-SMB-1	PBL-SMB-2	PBL-SMB-3	PBL-SMB-4	PBL-SMB-5
WRI ID			00-499	00-500	00-501	00-502	00-503
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	5.38	9.45	8.06	13.7	6.75
2',3,4,4',5-PeCB	123	0.5	6.74	11.3	10.2	19.6	8.79
2,3',4,4',5-PeCB	118	0.5	86.9	145	121	201	125
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	6.03	9.95	6.34	14.7	5.41
3,3',4,4',5-PeCB	126	0.5	8.52	6.74	5.29	9.89	4.27
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	257	271	166	350	159
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	16.9	15.3	8.75	21.6	10.3
2,3,3',4,4',5,5'-HpCB	189	1.0	16.8	15.7	7.00	19.4	8.47
Total TEQ (ND=0)			1.162	0.982	0.715	1.407	0.625
Total TEQ (ND=DL)			1.162	0.982	0.716	1.408	0.626
% Lipids			1.05	1.01	0.70	1.46	0.62
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

DEP ID			PBL-SMB-6	PBL-SMB-7	PBL-SMB-8	PBL-SMB-10	PBL-SMB-11
WRI ID			00-504	00-505	00-506	00-507	00-508
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	7.29	10.6	6.65	8.79	9.42
2',3,4,4',5-PeCB	123	0.5	9.49	12.4	9.51	11.4	10.3
2,3',4,4',5-PeCB	118	0.5	152	166	127	148	157
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	7.29	10.9	7.24	8.95	8.81
3,3',4,4',5-PeCB	126	0.5	6.61	8.85	6.29	6.37	7.69
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	187	301	173	285	203
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	11.6	16.9	14.2	16.1	12.6
2,3,3',4,4',5,5'-HpCB	189	1.0	9.57	17.2	12.9	14.8	10.8
Total TEQ (ND=0)			0.889	1.226	0.874	0.960	1.016
Total TEQ (ND=DL)			0.890	1.227	0.875	0.960	1.017
% Lipids			0.71	1.10	0.84	1.05	0.84
Sample weight (g)			50.0	50.0	50.0	50.0	50.0

Values less than the established MDLs ar

DEP ID			PBL-WHS-2	PBL-WHS-3	PBL-WHS-7	PBL-WHS-9	PBL-WHS-13
WRI ID			00-353	00-354	00-356	00-358	00-360
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	20.6	16.2	17.3	15.9	19.4
2',3,4,4',5-PeCB	123	0.5	25.1	18.9	21.6	16.7	23.7
2,3',4,4',5-PeCB	118	0.5	388	261	288	245	271
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	26.7	22.7	25.2	22.1	24.7
3,3',4,4',5-PeCB	126	0.5	25.9	20.3	23.1	20.9	22.9
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	441	350	394	374	383
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	25.3	22.1	23.0	23.8	18.7
2,3,3',4,4',5,5'-HpCB	189	1.0	26.4	18.7	22.4	22.4	16.1
Total TEQ (ND=0)			3.112	2.460	2.774	2.547	2.704
Total TEQ (ND=DL)			3.113	2.461	2.775	2.548	2.705
% Lipids			12.80	8.95	10.90	9.99	11.79
Sample weight (g)			50.0	50.1	50.1	50.0	50.1

DEP ID			PBL-WHS-14	PBL-WHS-21	PBL-WHS-22	PBL-WHS-23	PBL-WHS-24
WRI ID			00-361	00-363	00-364	00-365	00-366
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	20.6	13.6	17.0	18.9	21.5
2',3,4,4',5-PeCB	123	0.5	21.5	14.9	16.8	24.6	26.3
2,3',4,4',5-PeCB	118	0.5	301	199	287	354	397
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	25.3	16.7	27.3	28.3	30.1
3,3',4,4',5-PeCB	126	0.5	21.6	14.2	24.6	28.7	26.9
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	372	235	369	406	421
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	20.6	16.1	19.4	21.3	26.9
2,3,3',4,4',5,5'-HpCB	189	1.0	19.4	14.2	21.6	19.8	27.3
Total TEQ (ND=0)			2.591	1.724	2.875	3.331	3.220
Total TEQ (ND=DL)			2.592	1.725	2.876	3.331	3.220
% Lipids			10.34	6.37	9.72	12.66	13.37
Sample weight (g)			50.1	50.0	50.0	50.1	50.0

Values less than the established MDLs ar

DEP ID			PBC-SMB-1	PBC-SMB-2	PBC-SMB-3	PBC-SMB-4	PBC-SMB-5
WRI ID			00-537	00-538	00-539	00-540	00-541
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	7.56	4.26	9.45	6.02	11.2
2',3,4,4',5-PeCB	123	0.5	7.32	3.39	8.61	4.75	9.86
2,3',4,4',5-PeCB	118	0.5	143	121	267	165	281
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	14.5	6.95	15.8	10.4	18.7
3,3',4,4',5-PeCB	126	0.5	12.9	3.35	14.3	5.91	16.0
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	177	98.5	203	135	235
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	8.89	2.81	10.9	4.86	13.7
2,3,3',4,4',5,5'-HpCB	189	1.0	15.3	6.69	18.7	10.9	21.4
Total TEQ (ND=0)			1.486	0.427	1.672	0.727	1.889
Total TEQ (ND=DL)			1.487	0.427	1.673	0.728	1.889
% Lipids			0.90	0.35	1.19	0.40	1.46
Sample weight (g)			50.0	50.0	50.1	50.1	50.0

DEP ID			PBC-WHS-C1	PBC-WHS-C2	PBV-SMB-1	PBV-SMB-2	PBV-SMB-3
WRI ID			00-542	00-543	00-552	00-553	00-554
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	13.2	10.4	27.3	30.1	24.2
2',3,4,4',5-PeCB	123	0.5	10.7	13.2	33.6	38.4	29.6
2,3',4,4',5-PeCB	118	0.5	334	298	325	297	275
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	17.4	15.7	20.9	17.6	22.4
3,3',4,4',5-PeCB	126	0.5	12.6	10.2	12.6	15.3	18.6
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	234	201	356	391	324
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	18.9	15.6	17.3	18.6	15.7
2,3,3',4,4',5,5'-HpCB	189	1.0	20.4	18.7	30.2	34.5	27.6
Total TEQ (ND=0)			1.606	1.312	1.655	1.953	2.217
Total TEQ (ND=DL)			1.606	1.313	1.655	1.954	2.218
% Lipids			9.35	8.22	1.23	1.46	1.27
Sample weight (g)			49.9	50.0	50.0	50.0	50.0

Values less than the established MDLs ar

DEP ID			PBV-SMB-4	PBV-SMB-5	PBV-WHS-C1	PBV-WHS-C2	
WRI ID			00-555	00-556	00-558	00-557	
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	16.9	14.6	41.7	34.6	
2',3,4,4',5-PeCB	123	0.5	18.2	16.3	39.8	48.2	
2,3',4,4',5-PeCB	118	0.5	194	223	701	745	
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	
2,3,3',4,4'-PeCB	105	0.5	11.5	9.84	39.1	35.7	
3,3',4,4',5-PeCB	126	0.5	9.95	11.6	18.6	15.9	
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	
2,3,3',4,4',5-HxCB	156	1.0	201	187	712	644	
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	
3,3',4,4',5,5'-HxCB	169	1.0	8.74	10.4	31.4	36.8	
2,3,3',4,4',5,5'-HpCB	189	1.0	14.6	11.5	42.8	35.4	
Total TEQ (ND=0)			1.208	1.385	2.616	2.370	
Total TEQ (ND=DL)			1.209	1.386	2.617	2.371	
% Lipids			0.88	0.75	11.25	9.49	
Sample weight (g)			50.0	50.1	49.9	50.1	50.0

DEP ID			PBB-EEL-C1	PBB-EEL-C2	**rechecks**
WRI ID			00-478	00-474	
congener	**IUPAC#**	**DL (ng/Kg)**			
3,3',4,4'-TCB	77	0.5	21.5	18.9	
2',3,4,4',5-PeCB	123	0.5	56.9	48.7	
2,3',4,4',5-PeCB	118	0.5	605	558	
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	
2,3,3',4,4'-PeCB	105	0.5	33.4	26.9	
3,3',4,4',5-PeCB	126	0.5	25.8	27.8	
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	
2,3,3',4,4',5-HxCB	156	1.0	365	312	
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	
3,3',4,4',5,5'-HxCB	169	1.0	30.4	27.6	
2,3,3',4,4',5,5'-HpCB	189	1.0	29.1	32.4	
Total TEQ (ND=0)			3.141	3.280	
Total TEQ (ND=DL)			3.142	3.281	
% Lipids			19.81	16.50	
Sample weight (g)					

Values less than the established MDLs ar

DEP ID			PBW-SMB-2	PBW-SMB-3	PBW-SMB-6	PBW-SMB-7	PBW-SMB-9
WRI ID			00-509	00-510	00-511	00-512	00-513
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	4.31	1.02	2.66	2.06	7.46
2',3,4,4',5-PeCB	123	0.5	4.89	1.16	1.51	0.98	6.81
2,3',4,4',5-PeCB	118	0.5	134	21.6	38.9	56.8	141
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	5.98	<DL	<DL	0.61	5.26
3,3',4,4',5-PeCB	126	0.5	5.02	2.41	1.85	3.24	6.31
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	116	45.9	68.9	61.8	105
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	3.99	2.68	1.69	1.54	5.49
2,3,3',4,4',5,5'-HpCB	189	1.0	5.14	3.01	1.88	1.95	5.68
Total TEQ (ND=0)			0.615	0.293	0.241	0.377	0.755
Total TEQ (ND=DL)			0.616	0.294	0.242	0.377	0.756
% Lipids			0.905	0.163	0.155	0.134	0.484
Sample weight (g)			50.1	49.0	50.1	50.1	50.0

DEP ID			PBW-SMB-10	PBW-SMB-12	PBW-SMB-13	PBW-SMB-14	PBW-SMB-16
WRI ID			00-514	00-515	00-516	00-517	00-518
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	8.27	3.32	2.56	4.26	4.25
2',3,4,4',5-PeCB	123	0.5	7.79	3.14	3.36	4.41	3.88
2,3',4,4',5-PeCB	118	0.5	174	48.9	71.2	81.7	81.6
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	6.39	0.51	2.55	1.69	1.29
3,3',4,4',5-PeCB	126	0.5	8.14	3.66	3.97	5.33	4.01
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	169	52.8	53.4	91.3	66.9
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	8.85	0.84	3.04	2.25	3.95
2,3,3',4,4',5,5'-HpCB	189	1.0	10.2	2.57	3.66	4.61	3.88
Total TEQ (ND=0)			1.008	0.407	0.462	0.611	0.483
Total TEQ (ND=DL)			1.008	0.407	0.463	0.612	0.484
% Lipids			1.96	0.173	0.237	0.321	0.438
Sample weight (g)			50.0	50.1	50.0	50.0	50.1

Values less than the established MDLs ar

DEP ID			PBL-SMB-1	PBL-SMB-2	PBL-SMB-3	PBL-SMB-4	PBL-SMB-5
WRI ID			00-499	00-500	00-501	00-502	00-503
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	6.31	10.3	7.31	14.2	7.23
2',3,4,4',5-PeCB	123	0.5	5.24	10.8	8.52	16.9	7.14
2,3',4,4',5-PeCB	118	0.5	91.4	161	136	224	118
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	5.24	10.8	5.24	15.6	6.22
3,3',4,4',5-PeCB	126	0.5	6.11	8.38	6.01	8.55	5.84
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	226	256	149	315	147
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	14.8	17.4	7.02	18.7	8.25
2,3,3',4,4',5,5'-HpCB	189	1.0	12.5	15.9	6.33	16.6	7.31
Total TEQ (ND=0)			0.884	1.161	0.762	1.228	0.755
Total TEQ (ND=DL)			0.885	1.162	0.763	1.229	0.755
% Lipids			0.604	0.918	0.575	1.23	0.442
Sample weight (g)			50.1	50.1	50.0	50.1	50.1

DEP ID			PBL-SMB-6	PBL-SMB-7	PBL-SMB-8	PBL-SMB-10	PBL-SMB-11
WRI ID			00-504	00-505	00-506	00-507	00-508
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	6.35	6.69	7.21	7.15	8.87
2',3,4,4',5-PeCB	123	0.5	8.38	7.25	10.3	9.62	9.41
2,3',4,4',5-PeCB	118	0.5	132	123	141	136	147
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	7.22	6.21	8.32	9.01	7.63
3,3',4,4',5-PeCB	126	0.5	5.96	5.33	7.66	8.33	8.55
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	156	196	189	258	226
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	10.3	10.1	13.6	14.3	10.2
2,3,3',4,4',5,5'-HpCB	189	1.0	9.78	9.47	13.5	12.8	11.5
Total TEQ (ND=0)			0.793	0.747	1.015	1.122	1.088
Total TEQ (ND=DL)			0.794	0.748	1.015	1.123	1.089
% Lipids			0.419	0.579	0.858	0.838	0.581
Sample weight (g)			50.1	50.0	50.1	50.1	50.1

Values less than the established MDLs ar

DEP ID			PBL-WHS-2	PBL-WHS-3	PBL-WHS-7	PBL-WHS-9	PBL-WHS-13
WRI ID			00-353	00-354	00-356	00-358	00-360
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	19.7	17.4	17.9	17.8	18.1
2',3,4,4',5-PeCB	123	0.5	24.2	20.6	18.5	18.9	20.2
2,3',4,4',5-PeCB	118	0.5	398	278	306	269	242
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	27.5	23.9	26.7	23.5	21.6
3,3',4,4',5-PeCB	126	0.5	24.2	23.4	24.1	24.1	19.7
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	401	334	388	391	343
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	26.1	24.5	25.8	26.8	16.0
2,3,3',4,4',5,5'-HpCB	189	1.0	25.7	20.6	23.6	25.2	14.8
Total TEQ (ND=0)			2.931	2.788	2.901	2.909	2.333
Total TEQ (ND=DL)			2.932	2.789	2.902	2.910	2.334
% Lipids			13.18	9.36	11.13	10.52	12.67
Sample weight (g)			50.1	50.1	50.0	50.0	50.0

DEP ID			PBL-WHS-14	PBL-WHS-21	PBL-WHS-22	PBL-WHS-23	PBL-WHS-24
WRI ID			00-361	00-363	00-364	00-365	00-366
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	19.8	16.4	19.7	20.6	25.7
2',3,4,4',5-PeCB	123	0.5	18.7	16.6	18.6	28.7	30.1
2,3',4,4',5-PeCB	118	0.5	279	224	312	388	412
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	23.5	18.7	30.7	30.2	28.6
3,3',4,4',5-PeCB	126	0.5	24.3	19.2	29.4	31.4	29.1
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	355	265	375	387	455
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	18.7	18.3	22.6	25.6	30.4
2,3,3',4,4',5,5'-HpCB	189	1.0	16.1	15.4	24.1	22.4	28.6
Total TEQ (ND=0)			2.830	2.265	3.394	3.638	3.494
Total TEQ (ND=DL)			2.831	2.265	3.395	3.639	3.495
% Lipids			10.67	8.12	11.01	13.53	16.37
Sample weight (g)							

Values less than the established MDLs ar

DEP ID			PBV-SMB-1	PBV-SMB-2	PBV-SMB-3	PBV-SMB-4	PBV-SMB-5
WRI ID			00-552	00-553	00-554	00-555	00-556
congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	16.7	28.6	13.8	14.9	12.7
2',3,4,4',5-PeCB	123	0.5	21.2	31.2	15.9	16.7	15.3
2,3',4,4',5-PeCB	118	0.5	287	322	201	181	250
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	21.4	18.7	12.8	9.41	10.8
3,3',4,4',5-PeCB	126	0.5	15.6	15.1	10.6	7.23	9.41
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	306	355	301	223	165
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	15.4	20.2	8.87	5.31	11.3
2,3,3',4,4',5,5'-HpCB	189	1.0	22.9	31.6	15.9	10.6	12.7
Total TEQ (ND=0)			1.904	1.933	1.325	0.911	1.167
Total TEQ (ND=DL)			1.905	1.933	1.326	0.912	1.167
% Lipids			0.602	1.05	0.658	0.505	0.738
Sample weight (g)			50.1	50.0	50.1	50.1	50.1

DEP ID		
WRI ID		
congener	**IUPAC#**	**DL (ng/Kg)**
3,3',4,4'-TCB	77	0.5
2',3,4,4',5-PeCB	123	0.5
2,3',4,4',5-PeCB	118	0.5
2,3,4,4',5-PeCB	114	0.5
2,3,3',4,4'-PeCB	105	0.5
3,3',4,4',5-PeCB	126	0.5
2,3',4,4',5,5'-HxCB	167	1.0
2,3,3',4,4',5-HxCB	156	1.0
2,3,3',4,4',5'-HxCB	157	1.0
3,3',4,4',5,5'-HxCB	169	1.0
2,3,3',4,4',5,5'-HpCB	189	1.0
Total TEQ (ND=0)		
Total TEQ (ND=DL)		
% Lipids		
Sample weight (g)		

Values less than the established MDLs ar

ID			PWB-SMB-1	PWB-SMB-2	PWB-SMB-3	PWB-SMB-4	PWB-SMB-5
			00-110	00-111	00-112	00-113	00-114
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	18.4	15.6	28.6	22.4	31.7
2',3,4,4',5-PeCB	123	0.5	10.5	12.1	18.7	15.9	22.6
2,3',4,4',5-PeCB	118	0.5	201	225	321	287	341
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	9.68	12.8	18.7	16.4	21.6
3,3',4,4',5-PeCB	126	0.5	3.12	2.06	4.68	3.79	5.59
2,3',4,4',5,5'-HxCB	167	1.0	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4',5-HxCB	156	1.0	95.6	84.2	125	157	166
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	0.75	<DL	1.25	1.49	1.55
2,3,3',4,4',5,5'-HpCB	189	1.0	5.58	4.21	6.91	6.05	8.23
Total TEQ (ND=0)			0.392	0.275	0.582	0.507	0.700
Total TEQ (ND=DL)			0.393	0.286	0.583	0.508	0.701
Lipid (g)			0.17	0.16	0.34	0.30	0.40
Sample weight (g)			50.1	50.0	50.1	50.0	50.1

ID			PWD-SMB-01	PWD-SMB-02	PWD-SMB-03	PWD-SMB-04	PWD-SMB-05
			00-115	00-116	00-117	00-118	00-119
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	41.8	48.9	41.2	35.8	21.5
2',3,4,4',5-PeCB	123	0.5	94.8	121	98.7	77.2	68.9
2,3',4,4',5-PeCB	118	0.5	144	159	112	131	75.7
2,3,4,4',5-PeCB	114	0.5	<DL	<DL	<DL	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	86.9	78.6	62.8	48.7	45.3
3,3',4,4',5-PeCB	126	0.5	6.58	5.51	5.02	4.75	3.66
2,3',4,4',5,5'-HxCB	167	1.0	33.5	30.4	20.3	25.6	18.9
2,3,3',4,4',5-HxCB	156	1.0	98.7	114	84.5	62.1	71.2
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	1.15	<DL	<DL	<DL	<DL
2,3,3',4,4',5,5'-HpCB	189	1.0	20.6	18.6	15.3	17.5	11.6
Total TEQ (ND=0)			0.758	0.651	0.577	0.537	0.424
Total TEQ (ND=DL)			0.759	0.662	0.588	0.548	0.435
Lipid (g)			0.25	0.26	0.19	0.17	0.13
Sample weight (g)			50.0	50.0	50.1	50.0	50.0

ID			SFS-SMB-1	SFS-SMB-2	SFS-SMB-3	SFS-SMB-4	SFS-SMB-5
			00-645	00-646	00-647	00-648	00-649
Congener	**IUPAC#**	**DL (ng/Kg)**					
3,3',4,4'-TCB	77	0.5	14.8	4.66	8.26	6.92	6.29
2',3,4,4',5-PeCB	123	0.5	41.2	15.7	32.8	18.7	17.3
2,3',4,4',5-PeCB	118	0.5	40.6	21.6	31.5	20.6	18.3
2,3,4,4',5-PeCB	114	0.5	0.75	<DL	0.35	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	20.3	8.47	12.4	9.21	9.45
3,3',4,4',5-PeCB	126	0.5	6.87	2.66	5.51	3.07	2.99
2,3',4,4',5,5'-HxCB	167	1.0	16.9	4.03	8.07	4.26	3.87
2,3,3',4,4',5-HxCB	156	1.0	23.7	5.21	14.6	8.88	7.62
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL	<DL	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	8.85	1.15	5.37	3.06	2.14
2,3,3',4,4',5,5'-HpCB	189	1.0	17.2	4.67	9.64	5.91	5.52
Total TEQ (ND=0)			0.801	0.286	0.622	0.348	0.330
Total TEQ (ND=DL)			0.802	0.286	0.622	0.349	0.331
Lipid (g)			0.77	0.14	0.33	0.18	0.12
Sample weight (g)			50.1	50.1	50.1	50.1	50.1

ID			SWP-SMB-C1	SWP-SMB-C2
			00-625	00-626
Congener	**IUPAC#**	**DL (ng/Kg)**		
3,3',4,4'-TCB	77	0.5	3.71	2.51
2',3,4,4',5-PeCB	123	0.5	4.01	5.19
2,3',4,4',5-PeCB	118	0.5	5.42	6.33
2,3,4,4',5-PeCB	114	0.5	<DL	<DL
2,3,3',4,4'-PeCB	105	0.5	3.66	2.56
3,3',4,4',5-PeCB	126	0.5	<DL	<DL
2,3',4,4',5,5'-HxCB	167	1.0	4.89	3.15
2,3,3',4,4',5-HxCB	156	1.0	10.6	13.6
2,3,3',4,4',5'-HxCB	157	1.0	<DL	<DL
3,3',4,4',5,5'-HxCB	169	1.0	1.59	1.06
2,3,3',4,4',5,5'-HpCB	189	1.0	1.47	0.89
Total TEQ (ND=0)			0.023	0.019
Total TEQ (ND=DL)			0.124	0.120
Lipid (g)			0.29	0.32
			50.1	50.1

Table 3.1.1.5 Total DDT levels in fish samples from Maine rivers and streams, 2000

Location	Station Code	Species	Total DDX nd=1/2 mdl
Androscoggin River Gilead	AGL	RBT	10.3
Beaver Brook Portage	BBP	BKT	13.0
Caribou Str. Caribou	CAR	BKT	3.0
Everett Brook Ft Fairfield	EVT	BKT	241.5
Hockenhull Brook Ft Fairfield	HOC	BKT	3.0
Meduxnekeag River Bridgewater	MDB	BKT	4.7
N.Branch Presque Isle Str. Mapleton	NPI	BKT	43.8
Presque Isle Str Mapleton	PIS	BKT	3.0
Prestile Str. Westfield	PTW	BKT	96.0
Salmon Brook Washburn	SAL	BKT	37.6

DEP ID#	DL	AGL-RBT-1	AGL-RBT-2	AGL-RBT-3	AGL-RBT-4	AGL-RBT-5
Compound	**ng/kg**					
2,4-DDE	1.0	0.51	0.24	0.72	1.36	0.36
4,4-DDE	1.0	4.58	3.16	6.32	5.16	3.88
2,4-DDD	1.0	0.64	0.60	0.72	0.32	0.64
4,4-DDD	1.0	2.33	1.60	2.48	2.48	0.48
2,4-DDT	1.0	1.95	2.32	2.48	2.44	0.56
4,4-DDT	1.0	0.68	0.64	0.76	0.40	0.84
Total DDX		10.69	8.56	13.48	12.16	6.76
TCMX (% rec.)	65-125	81.0	92.6	84.3	79.5	82.7
Sample weight (g)		25.0	25.0	25.0	25.0	25.0

DEP ID#	DL	BBP-BKT-1	BBP-BKT-2	BBP-BKT-3	BBP-BKT-4	BBP-BKT-5
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	<DL	<DL	<DL
4,4-DDE	1.0	0.28	<DL	0.28	0.28	0.34
2,4-DDD	1.0	<DL	<DL	<DL	<DL	<DL
4,4-DDD	1.0	<DL	<DL	0.48	0.48	0.52
2,4-DDT	1.0	1.95	1.92	1.87	2.13	<DL
4,4-DDT	1.0	<DL	<DL	<DL	<DL	<DL
Total DDX		2.23	1.92	2.63	2.89	0.86
TCMX (% rec.)	65-125	76.9	72.4	74.2	83.2	72.9
Sample weight (g)		25.2	25.0	25.1	24.9	23.2

DEP ID#	DL	BBP-BKT-6	BBP-BKT-7	BBP-BKT-8	BBP-BKT-9	BBP-BKT-10
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	<DL	<DL	<DL
4,4-DDE	1.0	0.32	0.38	0.52	0.28	0.33
2,4-DDD	1.0	<DL	<DL	<DL	<DL	<DL
4,4-DDD	1.0	0.52	0.66	0.87	0.48	0.58
2,4-DDT	1.0	2.01	2.32	3.53	<DL	2.83
4,4-DDT	1.0	<DL	2.13	2.60	1.80	<DL
Total DDX		2.86	5.48	7.52	2.56	3.75
TCMX (% rec.)	65-125	82.6	73.2	79.8	76.4	89.0
Sample weight (g)		24.8	21.2	17.3	25.0	24.0

DEP ID#	DL	BBP-BKT-11	BBP-BKT-12	BBP-BKT-13	BBP-BKT-14	BBP-BKT-15
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	0.56	<DL	<DL
4,4-DDE	1.0	0.32	0.36	12.1	0.28	0.40
2,4-DDD	1.0	<DL	<DL	0.40	<DL	<DL
4,4-DDD	1.0	0.60	0.56	2.57	0.72	0.48
2,4-DDT	1.0	2.17	5.41	2.53	3.43	2.53
4,4-DDT	1.0	1.85	1.88	<DL	1.83	1.88
Total DDX		4.95	8.21	18.12	6.26	5.29
TCMX (% rec.)	65-125	71.9	97.6	103	106	88.1
Sample weight (g)		24.9	25.0	24.9	25.1	24.9

DEP ID#	DL	BBP-BKT-16	BBP-BKT-17	BBP-BKT-18	BBP-BKT-19	BBP-BKT-20
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	4.10	3.80	<DL
4,4-DDE	1.0	0.36	0.40	13.80	17.9	1.58
2,4-DDD	1.0	<DL	<DL	6.32	1.64	<DL
4,4-DDD	1.0	0.56	<DL	5.35	1.18	0.51
2,4-DDT	1.0	2.13	<DL	1.33	1.11	11.64
4,4-DDT	1.0	1.95	1.88	2.02	5.32	2.97
Total DDX		5.00	2.28	32.92	30.94	16.70
TCMX (% rec.)	65-125	95.8	87.6	82.4	66.3	92.1
Sample weight (g)		24.9	25.0	24.9	25.0	22.8

DEP ID#	DL	BBP-BKT-21	BBP-BKT-22	BBP-BKT-23	BBP-BKT-24	BBP-BKT-25
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	<DL	<DL	0.32
4,4-DDE	1.0	0.69	0.45	<DL	0.72	13.1
2,4-DDD	1.0	<DL	<DL	<DL	13.41	1.56
4,4-DDD	1.0	0.64	0.73	<DL	2.04	8.75
2,4-DDT	1.0	3.53	5.08	1.99	2.00	8.71
4,4-DDT	1.0	2.29	2.54	2.23	0.48	2.44
Total DDX		7.16	8.81	4.23	18.65	34.87
TCMX (% rec.)	65-125	78.6	73.3	76.8	78.3	86.3
Sample weight (g)		21.8	17.7	25.1	25.0	25.0

DEP ID#	DL	BBP-BKT-26	BBP-BKT-27	BBP-BKT-28
Compound	**ng/kg**			
2,4-DDE	1.0	0.96	0.44	1.40
4,4-DDE	1.0	23.7	19.8	16.4
2,4-DDD	1.0	0.44	1.00	4.59
4,4-DDD	1.0	2.56	7.02	1.28
2,4-DDT	1.0	2.56	6.67	4.63
4,4-DDT	1.0	0.96	<DL	1.77
Total DDX		31.18	34.93	30.05
TCMX (% rec.)	65-125	68.1	66.5	83.5
Sample weight (g)		25.0	25.1	25.1

DEP ID#	DL	MBD-BKT-1	MBD-BKT-2	MBD-BKT-3	MBD-BKT-4	MBD-BKT-5
Compound	**ng/kg**					
2,4-DDE	1.0	0.35	0.47	0.36	0.44	0.40
4,4-DDE	1.0	<DL	<DL	<DL	<DL	<DL
2,4-DDD	1.0	0.42	0.61	<DL	0.55	<DL
4,4-DDD	1.0	1.56	1.87	2.03	1.95	2.66
2,4-DDT	1.0	<DL	<DL	<DL	<DL	<DL
4,4-DDT	1.0	<DL	<DL	<DL	<DL	<DL
Total DDX		2.33	2.95	2.39	2.94	3.06
TCMX (% rec.)	65-125	81.4	90.4	79.1	87.3	69.7
Sample weight (g)		24.8	25.1	24.9	25.2	25.0

DEP ID#	DL	MBD-BKT-6	MBD-BKT-7	MBD-BKT-8	MBD-BKT-9	MBD-BKT-10
Compound	**ng/kg**					
2,4-DDE	1.0	0.26	0.32	0.28	0.36	0.32
4,4-DDE	1.0	<DL	<DL	<DL	<DL	<DL
2,4-DDD	1.0	0.71	0.60	0.56	0.56	0.52
4,4-DDD	1.0	3.02	2.34	1.96	1.96	1.93
2,4-DDT	1.0	<DL	<DL	<DL	2.28	<DL
4,4-DDT	1.0	<DL	<DL	<DL	<DL	<DL
Total DDX		3.99	3.25	2.80	5.15	2.77
TCMX (% rec.)	65-125	74.2	65.3	81.6	95.6	77.8
Sample weight (g)		25.3	25.2	25.0	25.1	24.9

DEP ID#	DL	MBD-BKT-11	MBD-BKT-12
Compound	**ng/kg**		
2,4-DDE	1.0	0.32	0.40
4,4-DDE	1.0	<DL	<DL
2,4-DDD	1.0	<DL	0.53
4,4-DDD	1.0	1.96	3.11
2,4-DDT	1.0	<DL	<DL
4,4-DDT	1.0	<DL	<DL
Total DDX		2.29	4.04
TCMX (% rec.)	65-125	77.6	74.9
Sample weight (g)		24.9	24.8

DEP ID#	DL	NPI-BKT-1	NPI-BKT-2	NPI-BKT-3	NPI-BKT-4	NPI-BKT-5
Compound	**ng/kg**					
2,4-DDE	1.0	8.71	15.9	9.94	26.9	<DL
4,4-DDE	1.0	26.2	49.7	9.82	54.5	12.5
2,4-DDD	1.0	4.41	8.15	2.56	5.61	<DL
4,4-DDD	1.0	5.92	11.9	1.76	<DL	<DL
2,4-DDT	1.0	13.6	21.0	<DL	10.5	1.79
4,4-DDT	1.0	5.66	13.9	3.25	<DL	8.26
Total DDX		64.50	120.62	27.33	97.44	22.53
TCMX (% rec.)	65-125	72.5	92.8	81.7	84.3	87.6
Sample weight (g)		23.5	25.0	25.0	25.1	25.2

DEP ID#	DL	NPI-BKT-6	NPI-BKT-7	NPI-BKT-8	NPI-BKT-9	NPI-BKT-10
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	5.08	<DL	3.03
4,4-DDE	1.0	6.40	4.41	25.3	13.2	7.81
2,4-DDD	1.0	5.16	6.95	14.6	6.08	6.09
4,4-DDD	1.0	<DL	<DL	5.28	4.13	<DL
2,4-DDT	1.0	2.72	1.66	9.88	5.97	<DL
4,4-DDT	1.0	2.96	1.84	1.87	3.26	4.06
Total DDX		17.25	14.86	62.06	32.64	20.99
TCMX (% rec.)	65-125	106	72.6	88.6	85.2	79.5
Sample weight (g)		25.0	25.0	24.6	25.2	25.1

DEP ID#	DL	NPI-BKT-11	NPI-BKT-12	NPI-BKT-13	NPI-BKT-14	NPI-BKT-15
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	<DL	0.36	0.68	<DL
4,4-DDE	1.0	10.2	12.7	73.6	7.67	9.21
2,4-DDD	1.0	8.75	<DL	0.92	2.88	3.66
4,4-DDD	1.0	3.12	0.48	8.63	0.76	1.24
2,4-DDT	1.0	5.19	4.27	8.55	0.84	0.92
4,4-DDT	1.0	3.22	4.16	0.84	1.24	1.12
Total DDX		30.48	21.61	92.89	14.07	16.15
TCMX (% rec.)	65-125	75.2	81.7	78.6	73.1	80.5
Sample weight (g)		25.0	25.0	25.0	25.0	25.0

DEP ID#	DL	NPI-BKT-16	NPI-BKT-17
Compound	**ng/kg**		
2,4-DDE	1.0	<DL	<DL
4,4-DDE	1.0	13.5	8.76
2,4-DDD	1.0	31.4	6.91
4,4-DDD	1.0	1.24	0.95
2,4-DDT	1.0	4.20	1.23
4,4-DDT	1.0	6.80	4.85
Total DDX		57.18	22.70
TCMX (% rec.)	65-125	74.3	69.2
Sample weight (g)		25.0	25.1

DEP ID#	DL	PTW-BKT-1	PTW-BKT-2	PTW-BKT-3	PTW-BKT-4	PTW-BKT-5
Compound	**ng/kg**					
2,4-DDE	1.0	1.33	2.41	0.95	<DL	<DL
4,4-DDE	1.0	13.5	11.3	8.86	12.4	30.7
2,4-DDD	1.0	41.2	64.0	24.3	68.2	57.4
4,4-DDD	1.0	8.41	10.6	2.41	4.56	27.6
2,4-DDT	1.0	7.32	10.7	2.69	6.12	27.1
4,4-DDT	1.0	9.51	14.0	4.59	6.00	18.6
Total DDX		81.27	113.00	43.80	97.29	161.38
TCMX (% rec.)	65-125	79.7	74.6	81.3	74.2	76.6
Sample weight (g)		25.0	24.9	25.0	25.0	25.0

DEP ID#	DL	PTW-BKT-6	PTW-BKT-7	PTW-BKT-8	PTW-BKT-9	PTW-BKT-10
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	1.64	<DL	30.1	3.84
4,4-DDE	1.0	8.35	15.2	19.4	16.2	40.1
2,4-DDD	1.0	41.5	54.8	8.09	51.6	17.5
4,4-DDD	1.0	6.91	3.56	5.63	42.5	32.8
2,4-DDT	1.0	6.79	6.64	6.66	76.4	16.3
4,4-DDT	1.0	1.04	3.88	4.56	57.8	8.39
Total DDX		64.59	85.74	44.36	274.69	119.02
TCMX (% rec.)	65-125	73.7	80.4	76.7	78.1	84.3
Sample weight (g)		25.0	25.0	25.2	25.0	25.0

DEP ID#	DL	PTW-BKT-11	PTW-BKT-12	PTW-BKT-13	PTW-BKT-14	PTW-BKT-15
Compound	**ng/kg**					
2,4-DDE	1.0	10.9	5.25	1.26	<DL	5.69
4,4-DDE	1.0	16.0	15.3	13.4	25.1	18.7
2,4-DDD	1.0	21.3	31.7	23.6	26.1	36.7
4,4-DDD	1.0	9.01	8.58	7.59	2.40	5.26
2,4-DDT	1.0	9.65	9.26	8.31	2.44	5.01
4,4-DDT	1.0	4.92	11.3	6.69	7.12	6.32
Total DDX		71.78	81.39	60.85	63.14	77.68
TCMX (% rec.)	65-125	97.7	84.6	81.4	90.4	78.3
Sample weight (g)		25.0	25.1	25.1	25.0	25.0

DEP ID#	DL	PTW-BKT-16	PTW-BKT-17	PTW-BKT-18	PTW-BKT-19	PTW-BKT-20
Compound	**ng/kg**					
2,4-DDE	1.0	<DL	5.59	1.64	5.94	2.16
4,4-DDE	1.0	15.4	31.6	11.8	22.7	29.0
2,4-DDD	1.0	26.8	42.7	29.7	38.7	46.8
4,4-DDD	1.0	3.36	10.3	6.23	16.9	23.1
2,4-DDT	1.0	3.87	11.5	7.01	15.1	19.2
4,4-DDT	1.0	4.21	8.81	9.44	11.6	15.70
Total DDX		53.64	110.50	65.82	110.94	135.96
TCMX (% rec.)	65-125	85.1	87.3	88.2	74.3	65.1
Sample weight (g)		24.9	25.0	25.0	24.9	22.9

DEP ID#	DL	EVT-BKT-C1	EVT-BKT-C2	SAL-BKT-C1	SAL-BKT-C2
Compound	**ng/kg**				
2,4-DDE	1.0	<DL	21.9	2.25	1.76
4,4-DDE	1.0	8.38	29.3	2.01	1.20
2,4-DDD	1.0	11.7	34.7	3.66	2.76
4,4-DDD	1.0	10.7	48.1	4.91	5.64
2,4-DDT	1.0	<DL	<DL	4.72	5.20
4,4-DDT	1.0	108	209	18.30	22.80
Total DDX		138.38	343.06	35.85	39.36
TCMX (% rec.	65-125	76.3	73.8	70.3	68.3
Sample weight (g)		24.9	25.0	25.0	25.0

DEP ID#	DL	PIS-BKT-C1	PIS-BKT-C2	CAR-BKT-C1	HOC-BKT-C1
Compound	**ng/kg**				
2,4-DDE	1.0	<DL	<DL	<DL	<DL
4,4-DDE	1.0	<DL	<DL	<DL	<DL
2,4-DDD	1.0	<DL	<DL	<DL	<DL
4,4-DDD	1.0	<DL	<DL	<DL	<DL
2,4-DDT	1.0	<DL	<DL	<DL	<DL
4,4-DDT	1.0	<DL	<DL	<DL	<DL
Total DDX		0.00	0.00	0.00	0.00
TCMX (% rec.	65-125	71.3	82.4	80.4	79.3
Sample weight (g)		20.8	25.0	24.9	25.0

3.1.2

EFFECTS-BASED FISH STUDY

EFFECTS-BASED FISH STUDY

To date, most SWAT studies of fish have focused on the effects of persistent, toxic, and bioaccumulative (PBT) contaminants on human consumers, with some consideration of impacts to wildlife consumers as well. Direct effects on fish populations have been measured or estimated by other DEP programs able to detect only relatively severe impacts on survival, growth, and reproduction. Recent studies (Adams et al, 1992; Kavlock et al, 1996; Munkittrick et al, 1998; Rolland et al, 1997) have measured other more subtle effects on development, immune system function, and reproduction not normally seen in testing regimes historically used by DEP. These effects may be a result of long term exposure to relatively low levels of contaminants or cumulative effects of exposure to many low-level contaminants. These responses to pollutant challenge are often within the same magnitude as natural variation and therefore difficult to measure with the methods that are currently used. Many new techniques have been developed to measure some of these effects.

In 1999 Environment Canada (EC) initiated a large 3 year study of the St John River watershed. One objective is to determine the effects of discharges and other activities on the assimilative capacity and sustainability of the aquatic ecosystem in the watershed. This will be accomplished by performing cumulative effects-based studies. In 1999 the focus was on the upper river from the headwaters to Grand Falls. A variety of studies were initiated, including 1. On-station flow-through bioassay with fathead minnows, 2. A proposed invertebrate mesocosm study, 3. Laboratory studies of the responses of fish to changes in effluents before and after process changes, and 4. In-stream invertebrate and fish monitoring. Many agencies, industries, and other groups are involved.

Most of this work was conducted above and below Fraser's pulp mill in Edmundston, on the Canadian side of the river. These studies were repeated in 2000 to confirm some of the possible impacts that were measured. Among others, results document a potential impact on reproduction of sculpins and shift of energy from reproductive function to growth compared to the St Hilaire reference station but not compared to the FT Kent reference station, which seems to have elevated data compared to other Canadian reference stations.

Working with EC, in 1999 DEP collected a sample of slimy sculpins downsteam of Fraser Paper's paper mill in Madawaska, where whole effluent toxicity (WET) test data indicate a discharge highly toxic to the water flea, *Ceriodaphnia dubia,* one of DEP's two standard test species. Negative impacts measured in sculpins were an increased liver size (LSI) in males and decreased gonad size (GSI) in females compared to the St. Hilaire reference station and other Canadian reference stations but not so compared to the Ft Kent (Claire, NB) reference station. Therefore, in 2000, this study was repeated at stations on the St John River upstream of Ft. Kent/Claire to try to determine other sources. Results of the sculpin studies in 2000 showed GSI and LSI from Moody Bridge and Priestly Bridge were similar to those from other forested reference stations. There were no differences among other stations near Claire. In contrast 2001 sculpins exhibited significantly enlarged livers at stations downstream of a poultry farm upstream of Claire, thereby identifying the source of impacts seen at Claire in earlier studies.

In 1999 DEP attempted to conduct similar studies on brook trout from the North Branch of Presque Isle Stream and from Prestile Stream where high DDT concentrations were measured in

1994, but we were unable to collect enough fish due to flood conditions during the collection period in September. Working with EC, in August 2000 DEP successfully collected trout from these two experimental streams and two reference streams from forested watersheds, Beaver Brook in Portage, and the North Branch of the Meduxnekeag River at Bridgewater. It was impossible to find reference streams similar to the experimental streams in all aspects except agricultural land use. (i.e. DDT history). Basic productivity of the agricultural streams, as measured by conductivity (K), was much greater than in the reference streams, which were from the forested watersheds. As the streams reflect the bedrock and surficial geology of their watersheds, the difference in productivity of the watersheds is no doubt the reason for the difference in land use. The agriculture was in the limestone belt and the forested watersheds in more granitic geology. Therefore, interpretation of differences between experimental and reference streams with respect to DDT levels is confounded by basic differences in productivity. We measured DDT levels in tissue, examined population age, growth and condition factors, gonadosomatic indices, hepatosomatic indices, circulating sex-steroids and mixed function oxidase enzymes.

DDT concentrations in brook trout from Prestile Stream were higher than those in trout from the North Branch of Presque Isle Stream and Prestile Stream, and both were higher than in fish from the reference streams (Table 3.1.1.4). Impacts on reproduction are indicated for both experimental streams as indicated by significantly reduced gonadosomatic index (GSI) for males in the Prestile Stream and more so in both sexes in the North Branch of Presque Isle Stream compared to the mean of the reference streams ($p<0.05$, Table 3.1.2.1). In another species, there was no difference in GSI or LSI of slimy sculpin from Prestile Stream compared to reference stations on the upper St. John River (data not shown).

Table 3.1.2.1 GSI and LSI in brook trout from Aroostook County Streams, 2000

LOCATION	SEX	GSI	p	LSI	p	K (ms)
Beaver Bk	F	1.85		1.35		73
Meduxnekeag R	F	5.36		1.34		100
N Br Presque Isle St	F	0.74	0.0001	1.21	0.19	300
Prestile St	F	3.67	0.47	1.39	0.40	468
Beaver Bk	M	1.85		1.11		73
Meduxnekeag R	M	1.59		0.98		100
N Br Presque Isle St	M	0.47	0.00001	0.99	0.27	300
Prestile St	M	1.24	0.013	1.21	0.35	468
BBP	IM	0.05		0.76		

p from t-test compared to mean of reference stations

The largest difference from the reference streams was for N Br Presque Isle Stream where DDT levels were lower than in fish from Prestile Stream. This indicates that factors beyond DDT are involved with the impact on reproduction. There was no difference in LSI between experimental

and reference streams. LSI is, among other things, an indicator of energy storage and may reflect a masking effect of increased productivity among streams over any negative impacts. Indeed, Prestile Stream is the most productive as indicated by K. However, there could be other factors affecting these responses. Without reference streams similar in all aspects but DDT levels, it is difficult to determine how much of an impact DDT is having.

Concentrations of the circulating sex steroids testosterone (T) and estradiol (E2) were measured from plasma of female trout, while T and 11ketotestosterone (11KT) were measured from plasma of male trout. Concentrations of T (4910 pg/ml) and E2 (3091pg/ml) were significantly higher in trout from Prestile Stream compared to the those of the two reference stations combined (2209 pg/ml and 1494 pg/ml respectively), while there was no significant difference between trout from the N Br Presque Isle Stream compared to the reference station data. These results are incongruent with the GSIs previously discussed. There may have been some problems with handling and storage of the plasma samples prior to analysis.

Liver samples collected for MFO analysis were not stored properly and there was no significant amount of MFO measured in any samples.

Condition factor was significantly higher for age 2+ trout from North Branch Presque Isle Stream and, but less so, for a sample of age 1+ and 2+ trout from Prestile Stream, than the two reference streams combined (data not shown). These results mirror the GSIs for the North Branch of Presque Isle Stream and may reflect reallocation of energy from reproduction to growth. Although the higher condition factor might be explained by the higher productivity of the two experimental streams, between them Prestile Stream is more productive and therefore should have higher condition factor unless other factors are controlling. Furthermore, only the GSI for male trout from Prestile Stream was significantly reduced from that of the reference streams, and condition factor for male trout was not different from the reference streams.

Length frequency plots indentified annual cohorts and indicated a typical age class structure with decreasing numbers with age for both experimental streams (Figures 3.1.2.1 and 3.1.2.2). Not enough fish and no young of the year trout were captured from the two reference streams to make a plot meaningful.

Population estimates were not calculated since the reference streams were of much lower productivity and so few fish were collected from them.

Figure 3.1.2.1 Length frequency for North Branch Presque Isle Stream brook trout

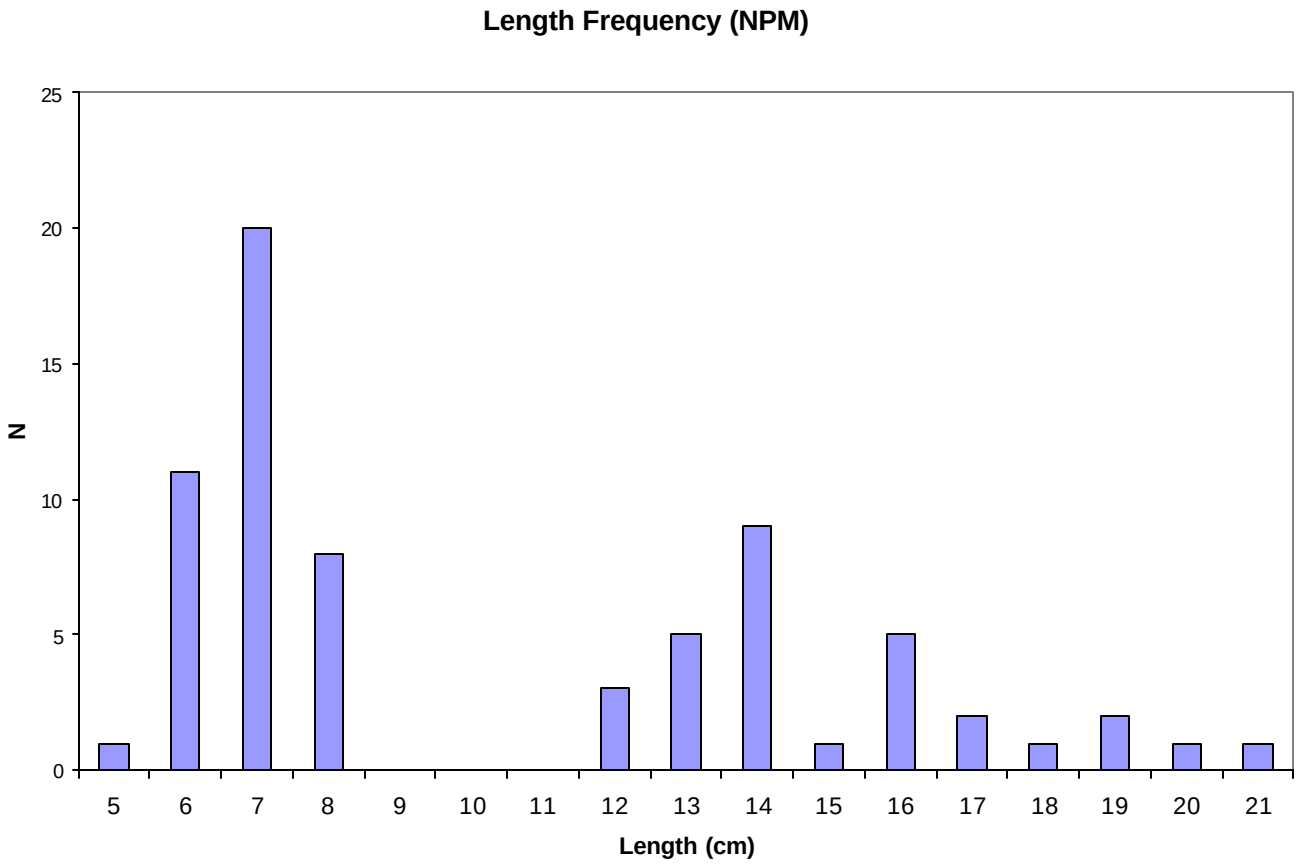
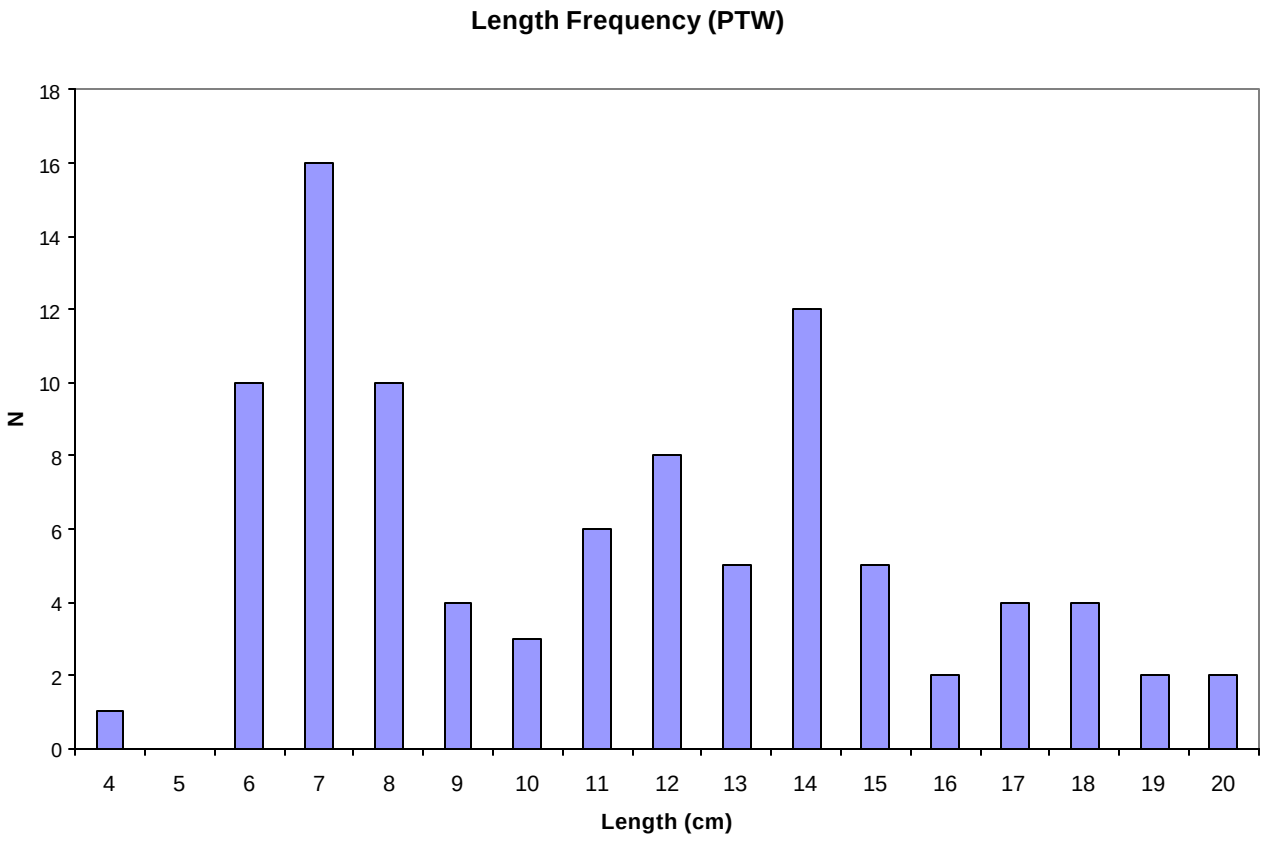


Figure 3.1.2.2 Length frequency for Prestile Stream brook trout



3.2

AMBIENT BIOLOGICAL MONITORING

AMBIENT BIOLOGICAL MONITORING

Thirty-five stations were sampled during the 2000 sampling season to evaluate benthic macroinvertebrate communities for evidence of impairment due to toxic contamination. Biological monitoring in 2000 was concentrated in the Presumpscot, Saco, and Piscataqua River Basins, in keeping with the Land and Water Bureau Five-Year Basin sampling rotation. The station list is essentially unchanged from that proposed in the 2000 SWAT workplan, except for minor substitutions.

Table 3.2.1 summarizes the results of biological monitoring activities for the 2000 SWAT Program, which are sorted by waterbody name. Since waterbodies are sometimes sampled in more than one location, each sampling event was assigned a "Log" number and each sampling station was assigned a "Station Number", which are listed in Table 3.2.1. Table 3.2.1 also includes a "Map" number for each sampling event. Using the "Map" number and the "Station Number", locations of each sampling location can be found on Maps 1-12. Individual data reports for each sampling event (Aquatic Life Classification Attainment Reports) are presented following the summary table and maps. Use the "Log" number associated with a sampling event to identify the correct Aquatic Life Classification Attainment Report.

Tables 3.2.2 and 3.2.3 summarize the supporting water chemistry samples.

Results Summary

- Thirty-five stations were assessed for the condition of the benthic macroinvertebrate community.
- Sixteen of the thirty-five stations fail to attain their aquatic life class.
- Nineteen of the thirty-five stations meet or exceed the aquatic life standards of the statutory class.
- Thirteen of the thirty-five stations exhibit natural aquatic communities (Class A).

Historical Notes

- When Station 337 on Goosefare Brook just below the Maine Turnpike was sampled in 1998, it attained Class B. In 2001, two weeks prior to

retrieving our sample, a truck carrying flammable materials rolled over on the exit ramp immediately upstream of the station location. The truck burst into flames and melted the pavement. We suspect that the chemicals used to extinguish the blaze entered the stream and damaged the biological community, resulting in the Non-Attainment model outcome.

- In 1995, Deep Brook (Station 269) had a classification attainment of Non-Attainment. In 2001, the same site had a classification attainment of Class B.
- In 1998, Sunday River (Station 354) had a classification attainment of Class C. In 2001, the same site had a classification attainment of Class A.
- In 1997, Trout Brook (Station 302) had a classification attainment of Non-Attainment. In 1999, the same site had a classification attainment of Class B. In 2001, the same site had a classification attainment of Non-Attainment.

3.75

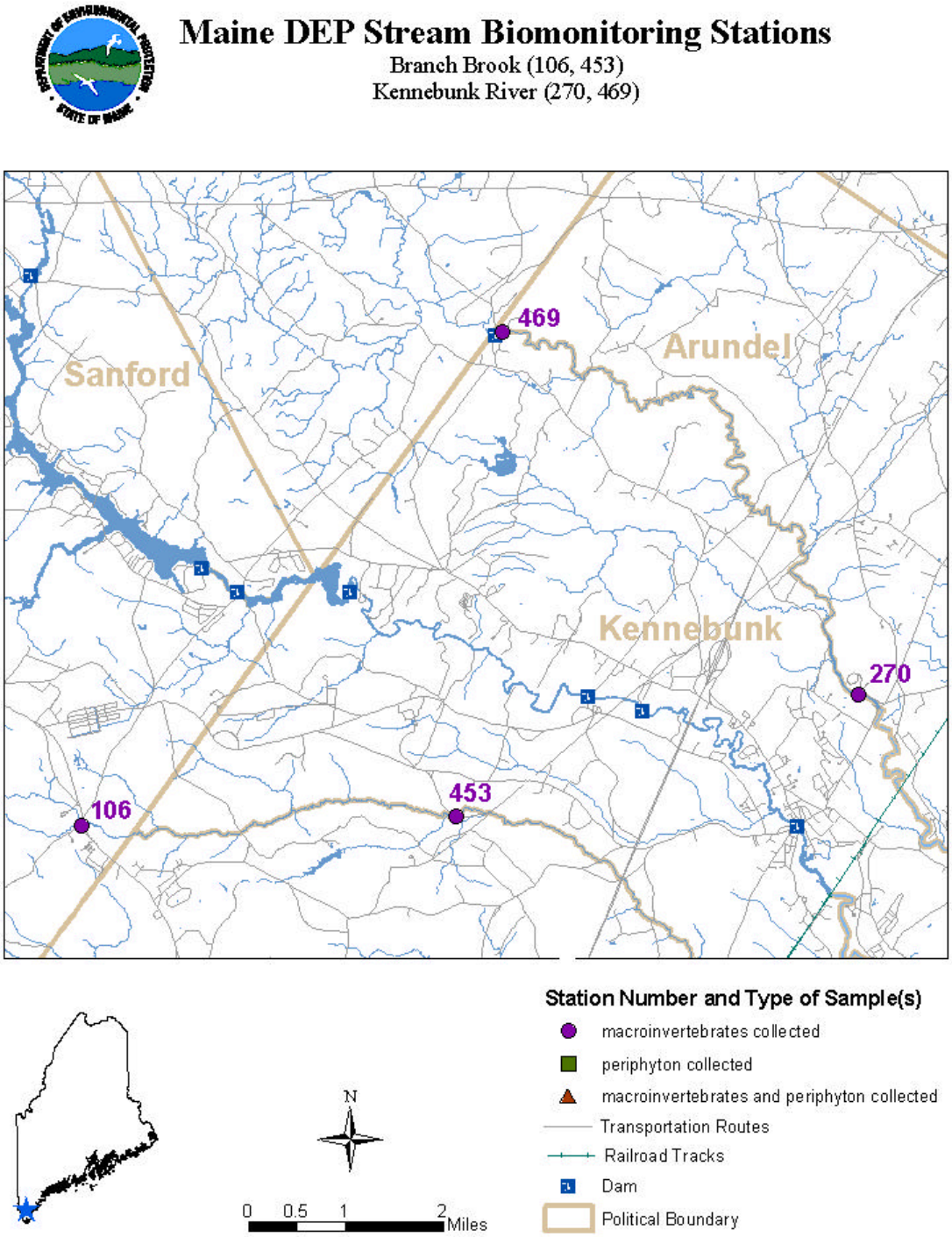
3.76

TABLE 3.2.3 – Metals in Water Samples

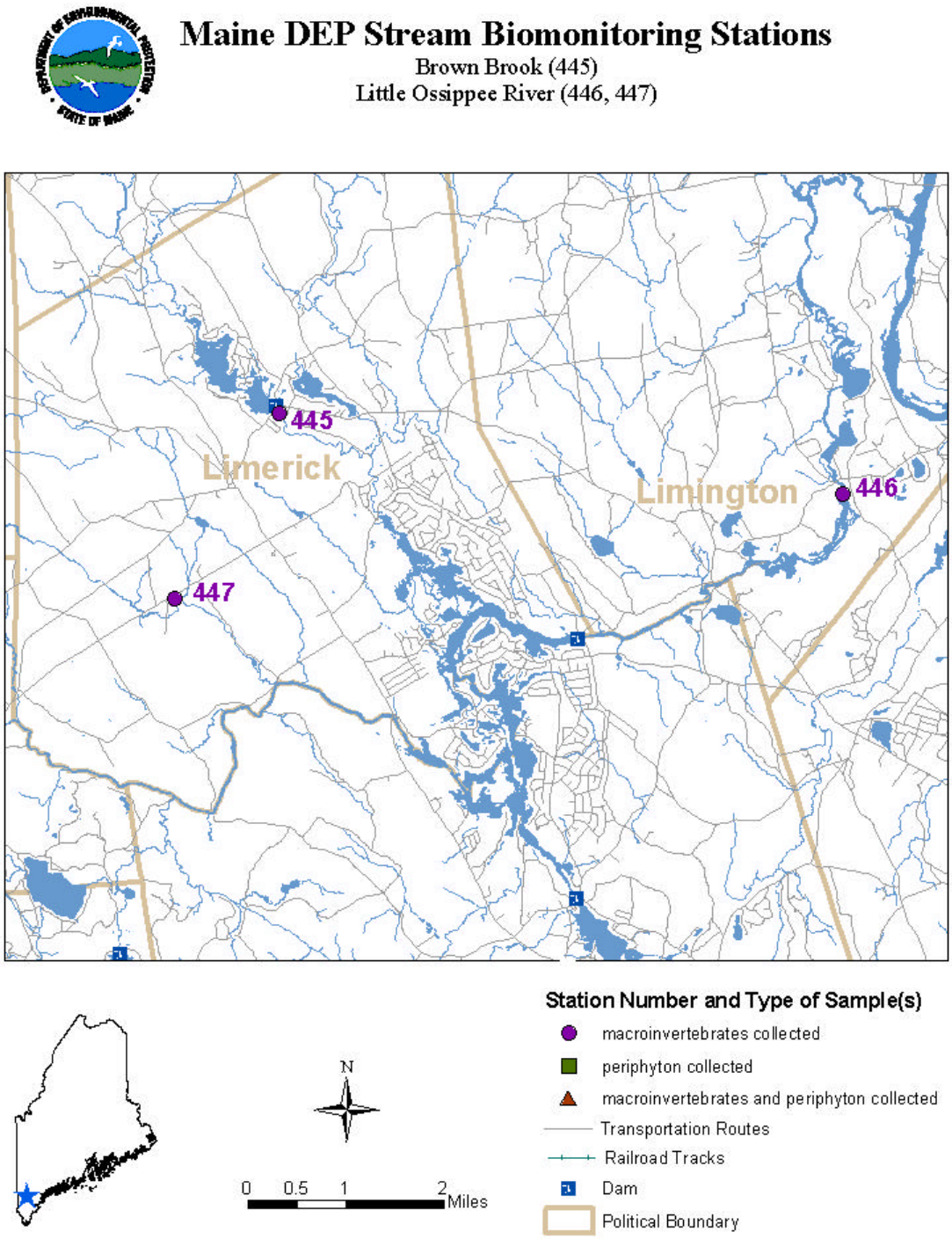
Log	Waterbody	Cd µg/L digest	Cr µg/L digest	Fe µg/L digest	Pb µg/L digest	Zn µg/L digest
876	W. Br. Sheepscot Weeks Mills	<0.05	<0.50	380	<0.50	1.78
877	Sheepscot River N. Whitefield	<0.05	0.50	421	<0.50	1.11
891	Stevens Brook – Above	0.053	0.56	1409	<0.50	6.42
892	Stevens Brook – Below	0.061	1.07	550	1.35	7.88
893	Cascade Brook – Above	<0.05	3.11	935	1.01	4.63
894	Cascade Brook – Below	<0.05	0.79	1096	<0.50	5.01
895	Merriland River – Above	<0.05	0.53	500	<0.50	2.76
896	Merriland River - Below	<0.05	<0.50	530	<0.50	2.77
897	Webhannet River	<0.05	0.53	583	<0.50	4.12
900	Chick's Brook	0.074	<0.50	839	0.96	3.76
901	Sandy River - Farmington	<0.05	<0.50	149	<0.50	1.39
907	Little Ossippe R.	<0.05	<0.50	256	<0.50	<1.00
908	Brown Brook	<0.05	<0.50	333	<0.50	1.81
911	Trout Brook - Below	<0.05	<0.50	432	<0.50	3.41
912	Thatcher Brook - Above	<0.05	2.09	3487	0.81	16.31
913	Thatcher Brook - Below	<0.05	<0.50	792	<0.50	2.69
914	West Brook	<0.05	0.52	771	0.56	5.29
917	Branch Brook - Above	<0.05	0.56	451	<0.50	3.42
918	Branch Brook - Below	<0.05	0.81	445	<0.50	1.90

Cd = cadmium, Cr = chromium, Fe = iron, Pb = lead, and Zn = zinc

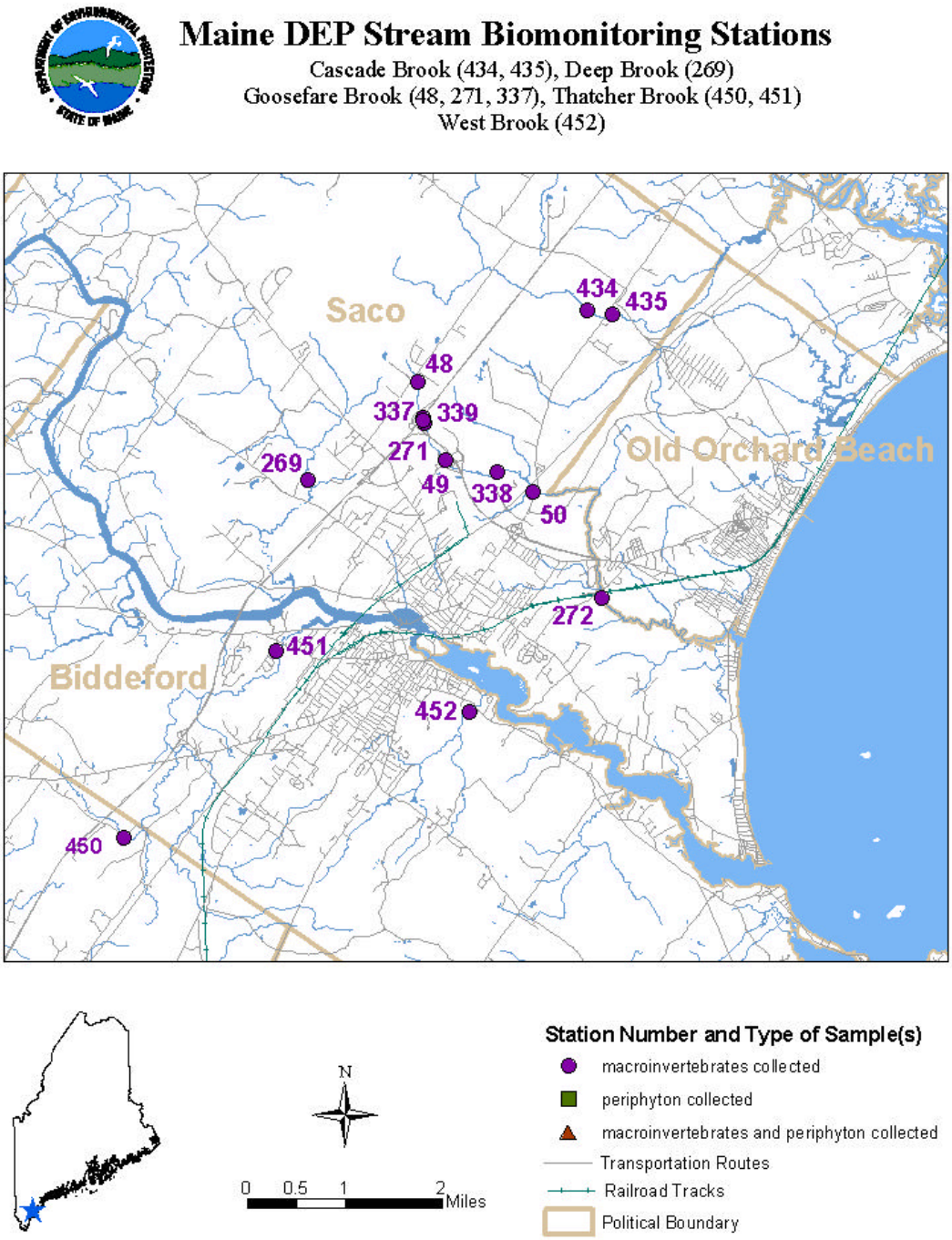
Map 1 – Branch Brook and Kennebunk River



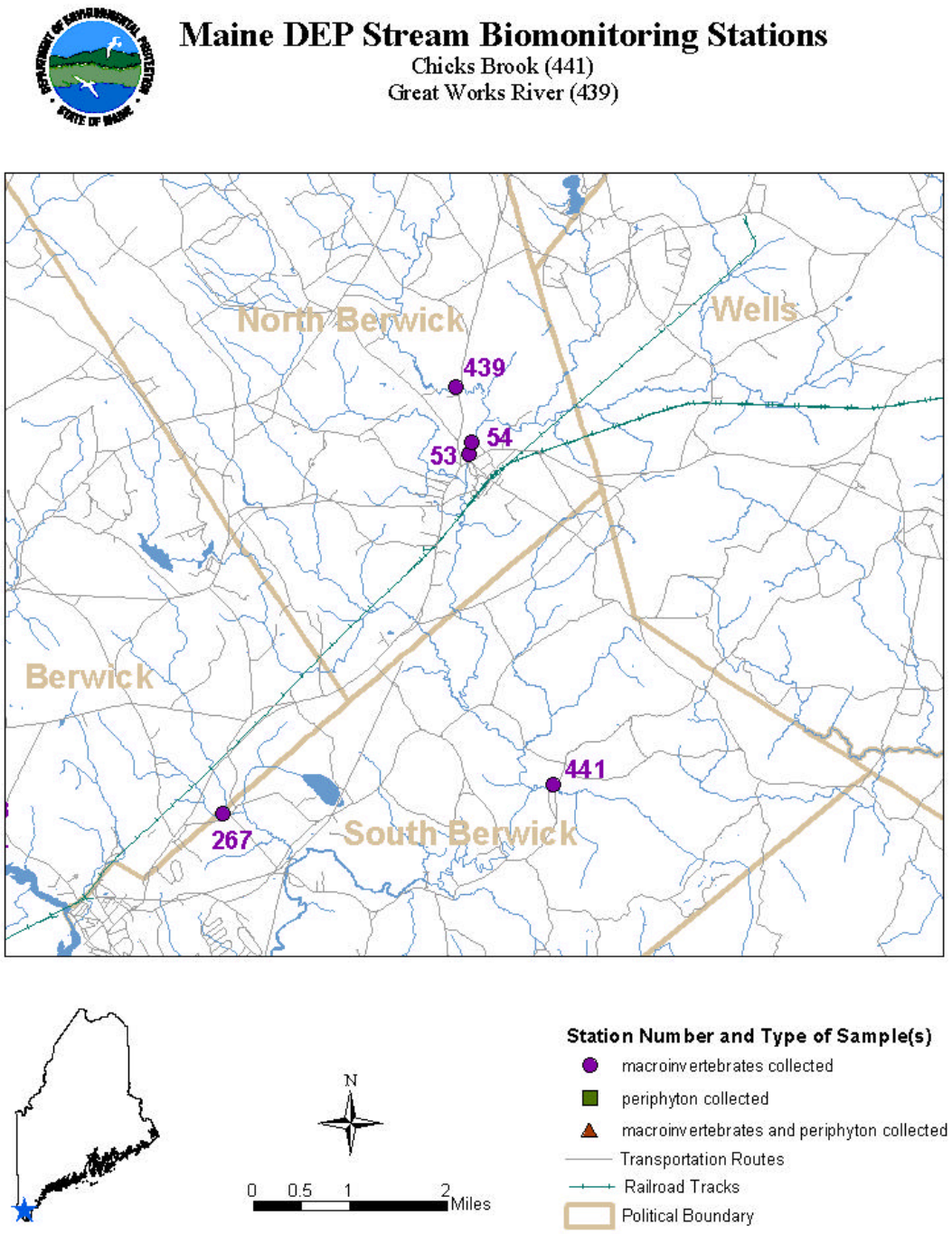
Map 2 – Brown Brook and Little Ossippee River



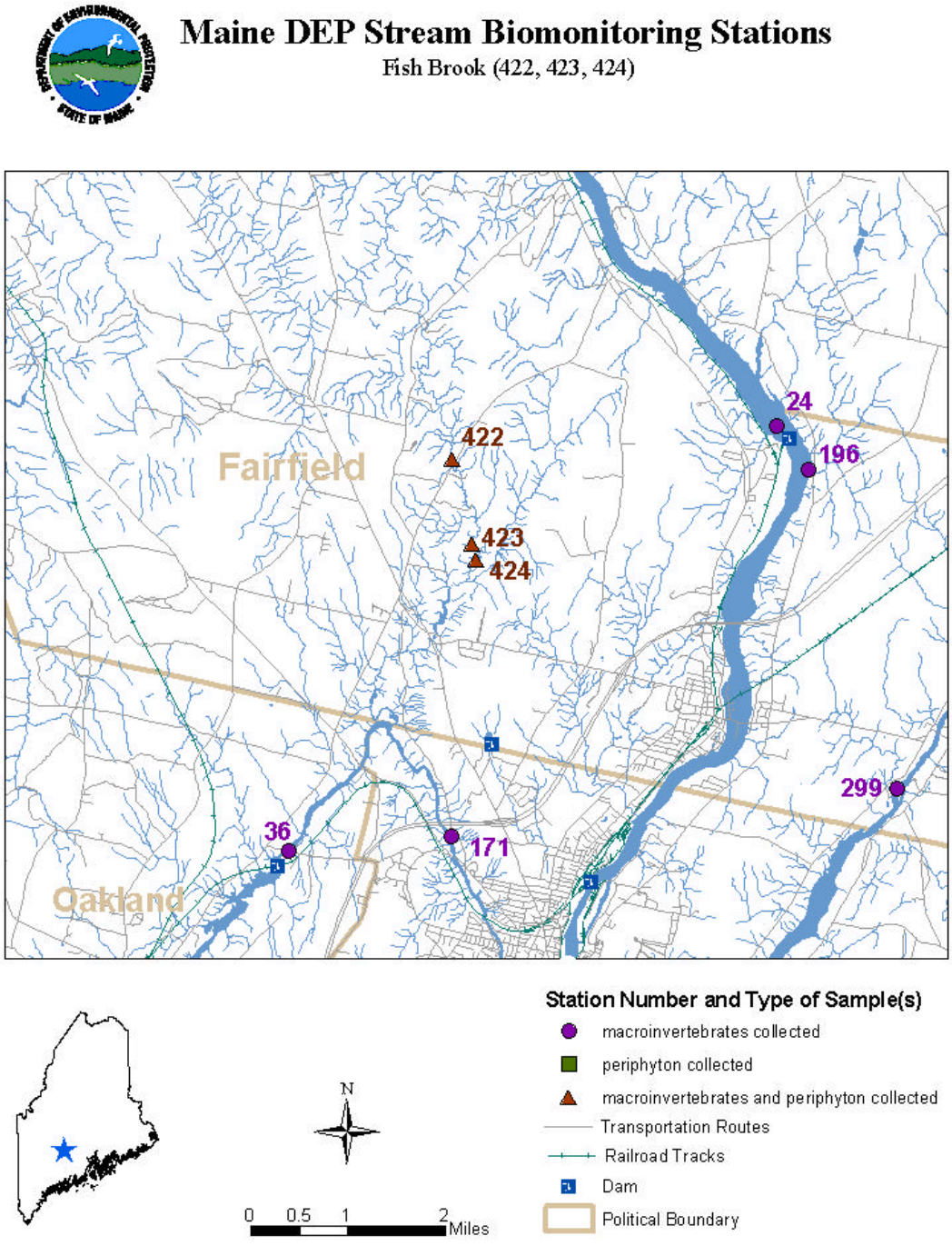
Goosefare Brook, Thatcher Brook, and West Brook



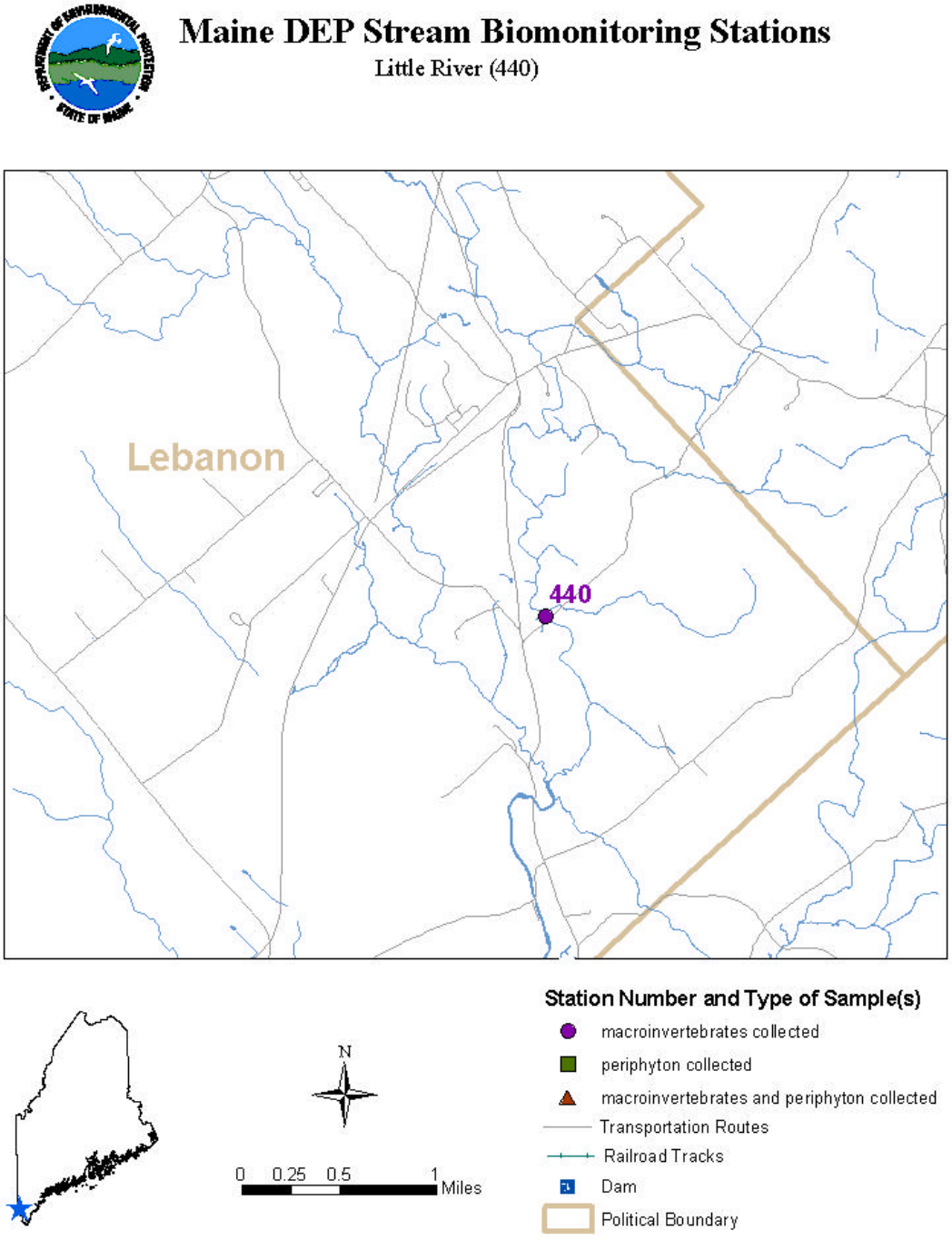
Map 4 – Chicks Brook and Great Works River



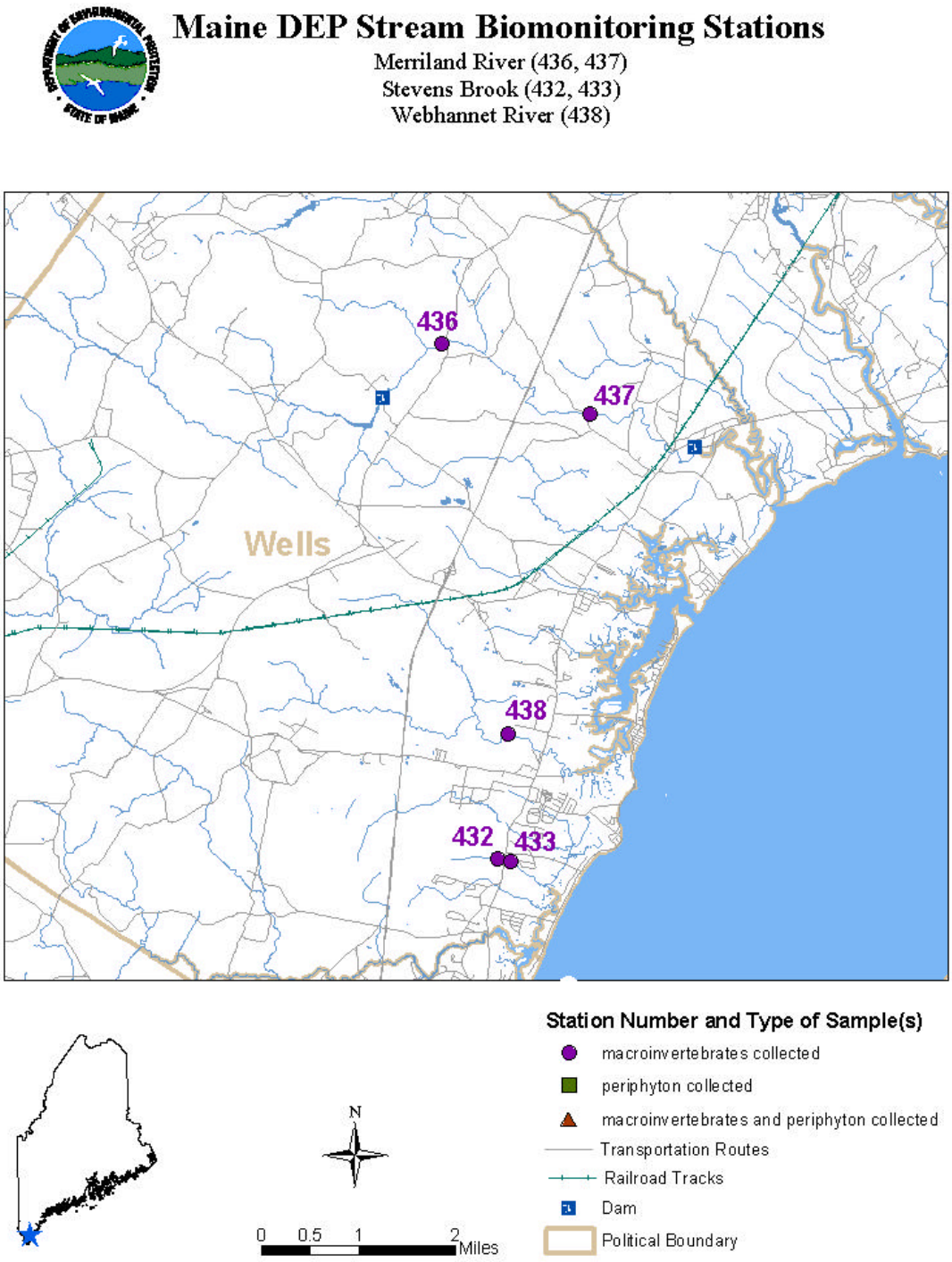
Map 5 – Fish Brook



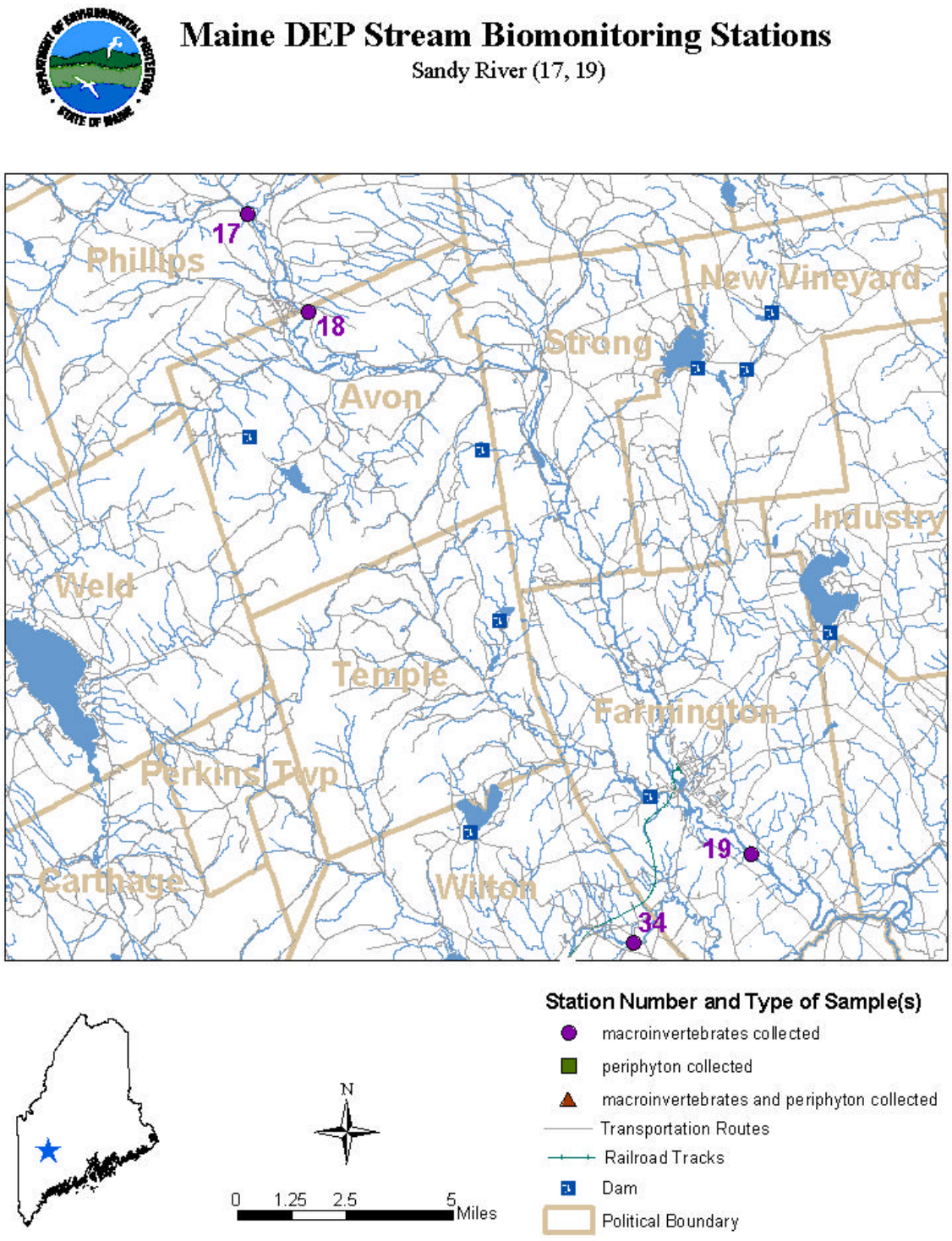
Map 6 – Little River



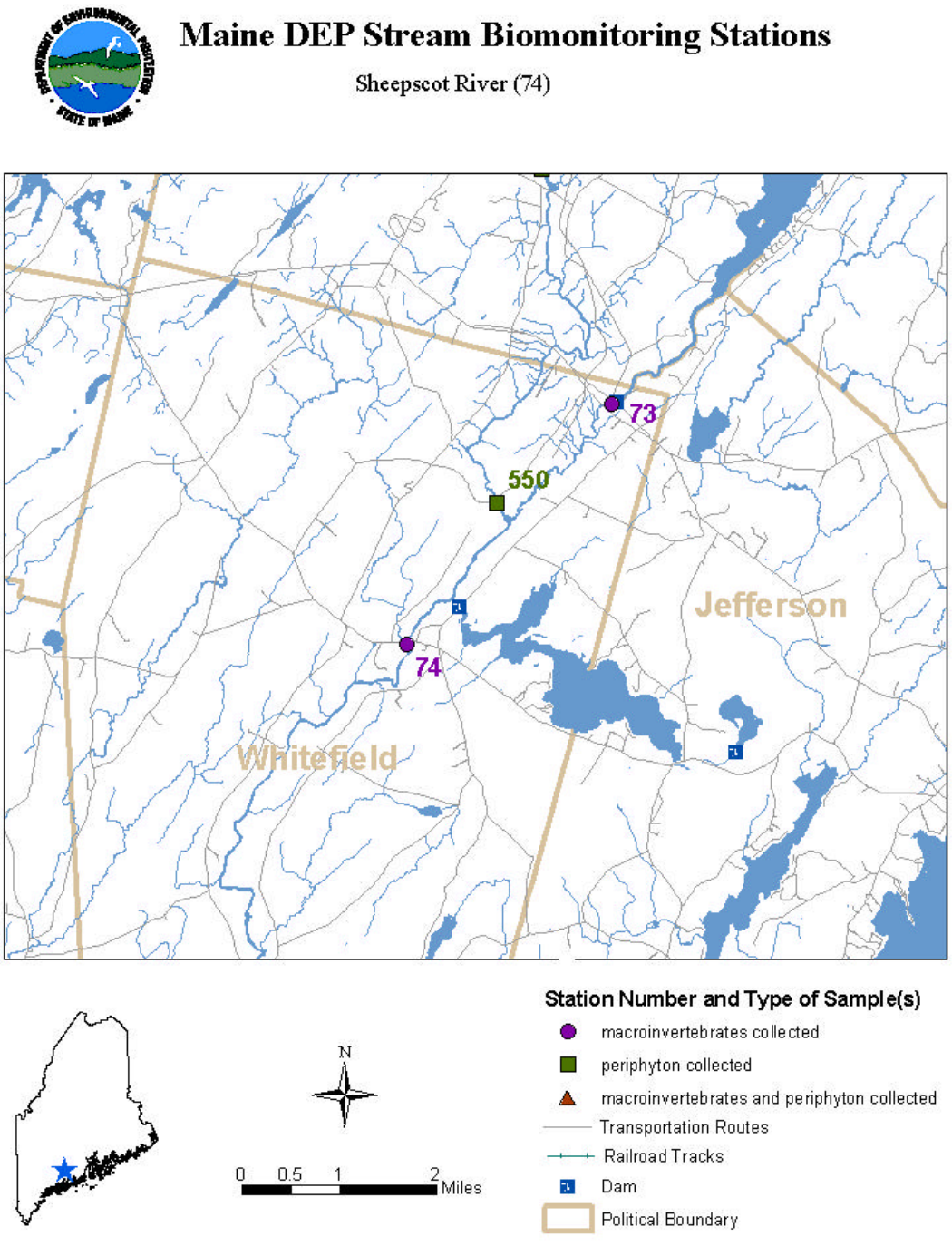
Map 7 – Merriland River and Webhannet River



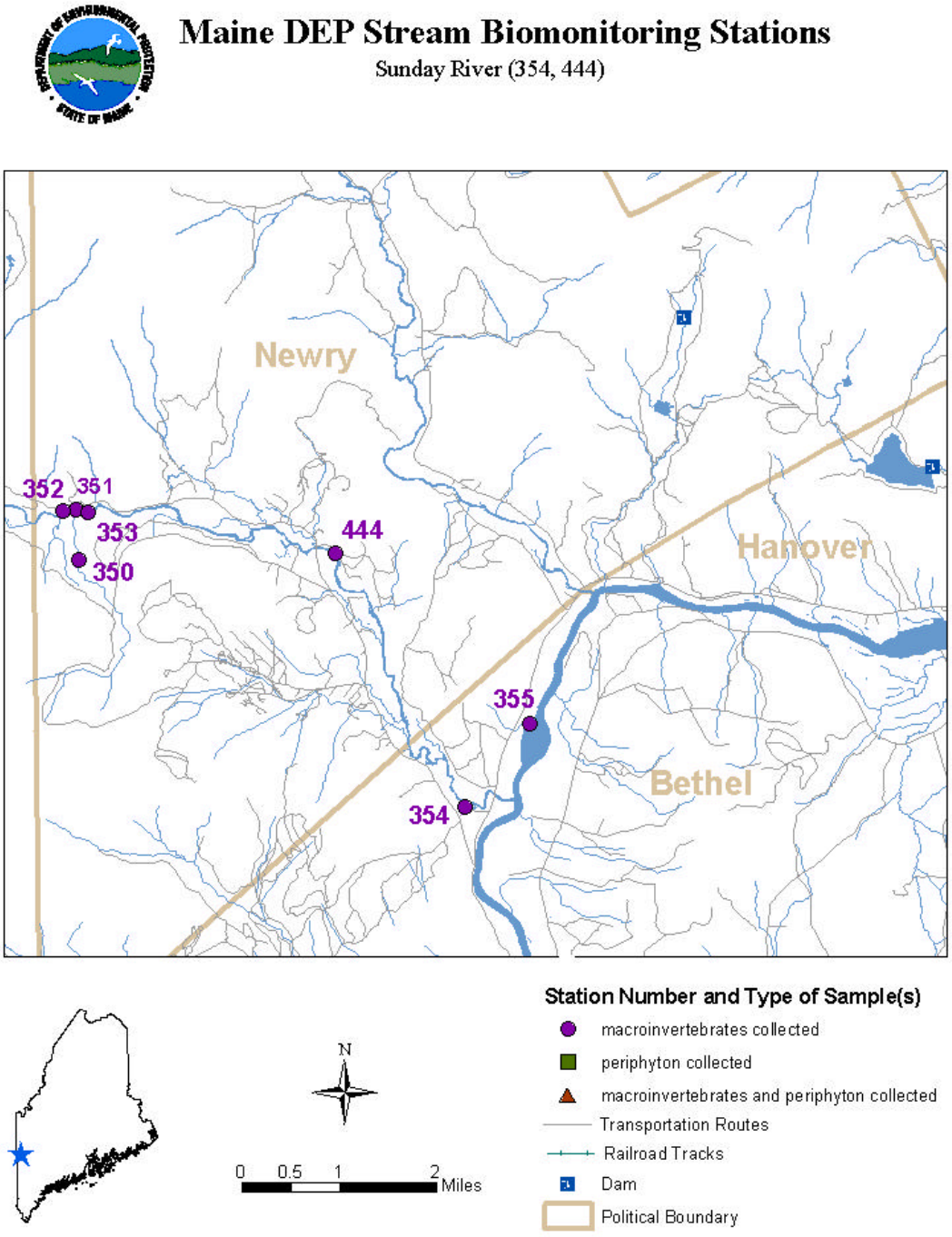
Map 8 – Sandy River



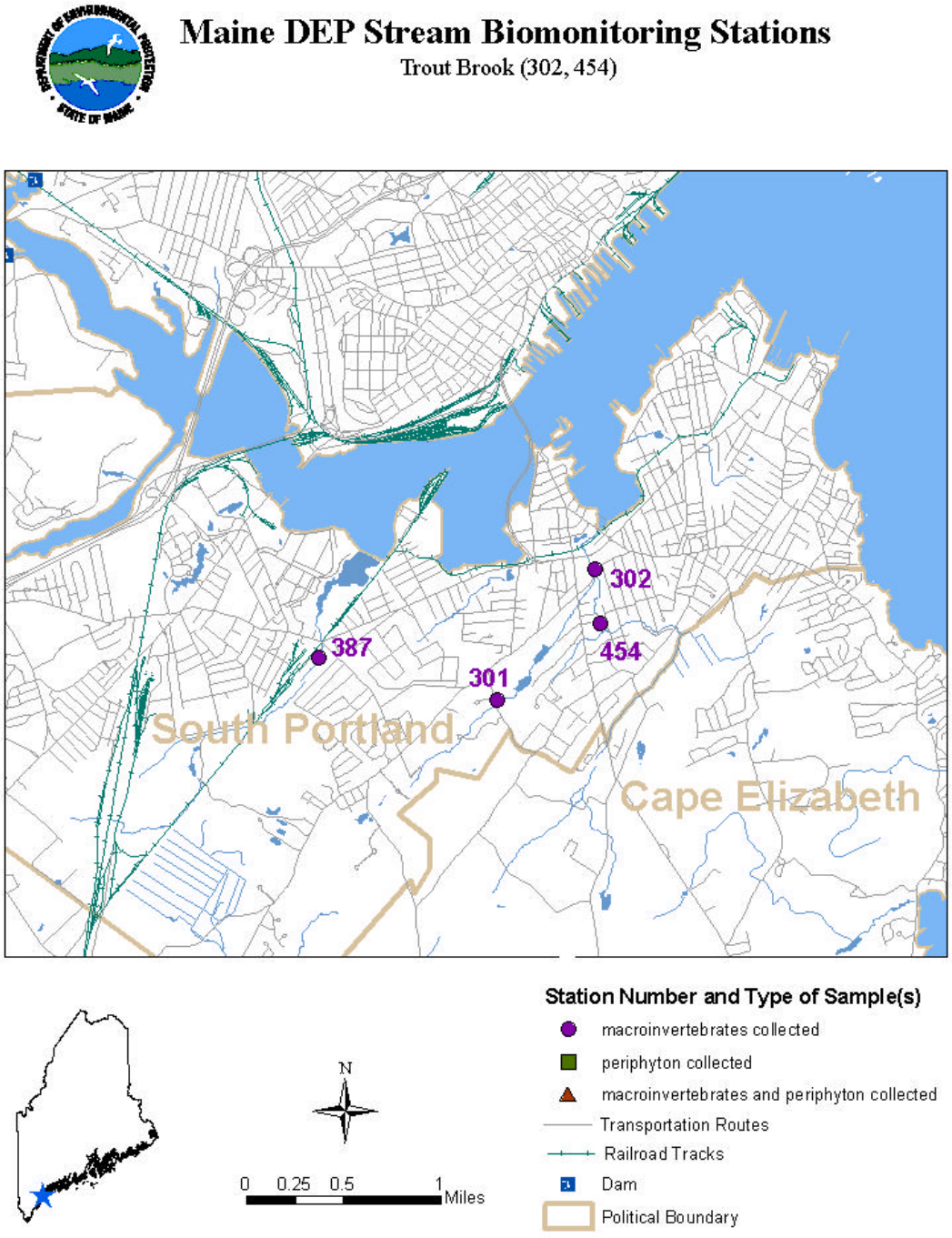
Map 9 – Sheepscot River



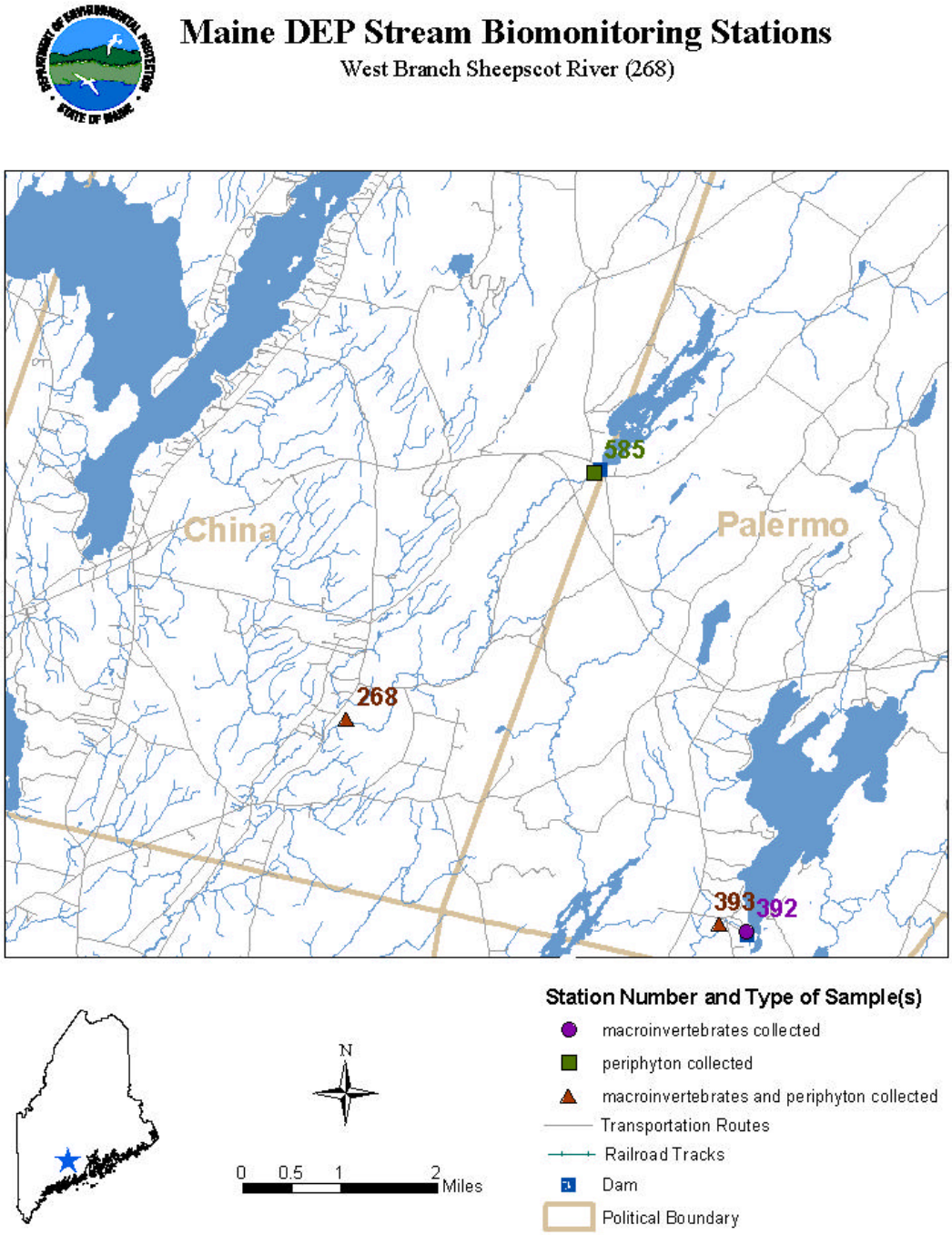
Map 10 – Sunday River



Map 11 – Trout Brook



Map 12 – West Branch Sheepscot



3.92