Fillet vs Whole Body Lipid Analysis
Coastal 2000 Data

15-Jul-04

Sample ID	Species	Location	Fillet (grams lipid)	Carcass* (grams lipid)	Whole Body (grams lipid)	Whole Body (weight)	Fillet (% lipid)	Whole Body (% lipid)
NJ00-0093-FC1	White Perch	Maurice River	3.17	45.44	48.61	1008.85	1.01	4.82
NJ00-0095-FC1	White Perch	Alloways Creek	2.28	28.15	30.43	640.48	1.26	4.75
DE00-0069-FC1	White Perch	Christina River	4.35	47.61	51.96	627.21	2.57	8.28
PA00-0003-FC1	White Perch	Schuylkill River	3.48	41.25	44.73	683.96	1.98	6.54
NJ00-0061-FC1	Weakfish	Delaware Bay	8.21	53.47	61.68	849.12	2.68	7.26
NJ00-0061-FC2	Weakfish	Delaware Bay	20.96	56.28	77.24	1260.48	4.83	6.13
DE00-0059-FC1	White Perch	Broadkill River	0.98	16.58	17.56	425.58	0.99	4.13
DE00-0051-FC1	White Perch	Delaware River (Zone 5)	1.49	24.21	25.70	467.85	1.24	5.49
DE00-0053-FC1	Weakfish	Delaware River	16.01	68.78	84.79	1272.54	3.64	6.66
DE00-0047-FC1	White Perch	Delaware River (Zone 5)	4.98	46.50	51.49	584.89	3.15	8.80
NJ00-0073-FC1	White Perch	Delaware River (Zone 2)	3.11	36.52	39.62	609.09	1.99	6.50
NJ00-0079-FC2	White Perch	Delaware River (Zone 4)	19.87	105.92	125.79	1334.26	5.35	9.43
NJ00-0075-FC2	White Perch	Delaware River (Zone 3)	16.01	126.39	142.40	1212.18	5.07	11.75
DE00-0049-FC1	White Perch	Delaware River (Zone 5)	1.73	16.95	18.68	341.97	1.93	5.46
NJ00-0075-FC1	Channel Catfish	Delaware River (Zone 3)	5.60	47.97	53.56	701.17	2.65	7.64
NJ00-0073-FC2	Channel Catfish	Delaware River (Zone 2)	13.78	117.84	131.62	1146.46	5.43	11.48
NJ00-0079-FC1	Channel Catfish	Delaware River (Zone 4)	6.36	60.53	66.90	705.79	3.16	9.48
DE00-0047-FC2	Channel Catfish	Delaware River (Zone 5)	12.35	111.79	124.14	1191.96	4.89	10.41
			5.3	47.8	52.8	703.5		7.0
			17	17	17	17		17

White Perch	**1.98**	**6.50**
Zone 2	1.99	6.50
Zone 3	5.07	11.75
Zone 4	3.67	7.98
Zone 5	1.93	5.46
Channel Catfish	**4.03**	**9.95**
Zone 2	5.43	11.48
Zone 3	2.65	7.64
Zone 4	3.16	9.48
Zone 5	4.89	10.41

DRBC/EPA Coastal 2000 Fish and Blue Crab Results

Data and information in this spreadsheet were obtained from the following 3 sources:
1. **Edward Santoro, Delaware River Basin Commission (DRBC)**
2. **Richard Purdy, Arthur D. Little**
3. **U.S. EPA's web site www.epa.gov/emap**

Sample ID	Waterbody	Location [1]	Latitude	Longitude	Date Sampled	Species	Portion Analyzed
NJ000085-FC1	Cape May Canal	~1000' WNW of SR 162 Bridge, NJ	38.9627	74.9264	09/13/00	Blue Crab	Whole Body
NJ000089-FC1	Maurice River	At mouth, ~3500' NNW of East Point Lighthouse, NJ	39.2036	75.0306	09/15/00	Blue Crab	Whole Body
NJ000097-FC1	Cohansey River	~2.5 mi. downstream from SR49, Bridgeton, NJ	39.3917	75.2265	09/20/00	Blue Crab	Whole Body
NJ000091-FC1	Mouth of Cohansey River	At mouth, ~700' N of Cohansey Point, NJ	39.3455	75.3580	09/20/00	Blue Crab	Whole Body
NJ000067-FC1	Delaware Bay	~0.4 mi. W of Dennis Creek mouth, NJ	39.1634	74.8996	10/03/00	Blue Crab	Whole Body
DE000065-FC1	Cedar Swamp	~1 mi. upstream from mouth, DE	39.3923	75.5399	09/29/00	Blue Crab	Whole Body
DE000037-FC1	Delaware Bay	~0.25 mi. ENE of Simons River mouth, DE	39.2254	75.4005	09/28/00	Blue Crab	Whole Body
DE000039-FC1	Delaware Bay	~0.87 mi. ENE of Bowers Beach, DE	39.0634	75.3805	10/09/00	Blue Crab	Whole Body
NJ000065-FC1	Delaware Bay	~2.9 mi. W of False Egg Island Point, NJ	39.2007	75.2214	10/12/00	Blue Crab	Whole Body
NJ000093-FC1	Maurice River	Upstream of Laurel Lake outflow, NJ	39.3469	75.0240	09/15/00	White Perch	Fillet, Skin On
NJ000095-FC1	Alloway Creek	~1.6 mi. upstream from mouth, NJ	39.5016	75.5076	09/19/00	White Perch	Fillet, Skin On
DE000069-FC1	Christina River	Near 7th Street Penisula, ~0.38 mi. downstream of Christina Park, DE	39.7364	75.5348	09/22/00	White Perch	Fillet, Skin On
PA000003-FC1	Schuylkill River	In Philadelphia, PA, ~0.2 mi. downstream from Rt. 3 Bridge	39.9543	75.1807	09/27/00	Channel Catfish	Fillet, Skin On
NJ000061-FC1	Delaware Bay	~1.0 mi. WNW of Cape May Canal mouth, NJ	38.9723	74.9821	10/03/00	Weakfish	Fillet, Skin On
NJ000061-FC2	Delaware Bay	~1.0 mi. WNW of Cape May Canal mouth, NJ	38.9723	74.9821	10/03/00	Weakfish	Fillet, Skin On
DE000059-FC1	Broadkill River	~1 mi. downstream from SR1, DE	38.7974	75.2455	10/04/00	White Perch	Fillet, Skin On
DE000051-FC1	Delaware River	~0.61 mi. E of Reedy Island, DE	39.5110	75.5530	10/11/00	White Perch	Fillet, Skin On
DE000053-FC1	Delaware River	~2 mi. NE of Woodland Beach Wildlife Area, DE	39.3740	75.4680	10/04/00	Weakfish	Fillet, Skin On
DE000047-FC1	Delaware River	Near Edgemoor, ~3.9 mi. below DE/PA/NJ stateline	39.7670	75.4740	10/11/00	White Perch	Fillet, Skin On
NJ000073-FC1	Delaware River	Near Burlington-Bristol Bridge	40.0790	74.8700	10/10/00	White Perch	Fillet, Skin On
NJ000079-FC2	Delaware River	Near Chester Island/Marcus Hook	39.8450	75.3380	10/11/00	White Perch	Fillet, Skin On
NJ000075-FC2	Delaware River	Near Betsy Ross Bridge	39.9830	75.0670	10/10/00	White Perch	Fillet, Skin On
DE000049-FC1	Delaware River	~0.92 mi. ESE of New Castle, DE	39.6530	75.5460	10/11/00	White Perch	Fillet, Skin On
NJ000075-FC1	Delaware River	Near Betsy Ross Bridge	39.9830	75.0670	10/10/00	Channel Catfish	Fillet, Skin On
NJ000073-FC2	Delaware River	Near Burlington-Bristol Bridge	40.0790	74.8700	10/10/00	Channel Catfish	Fillet, Skin On
NJ000079-FC1	Delaware River	Near Chester Island/Marcus Hook	39.8450	75.3380	10/11/00	Channel Catfish	Fillet, Skin On
DE000047-FC2	Delaware River	Near Edgemoor, ~3.9 mi. below DE/PA/NJ stateline	39.7670	75.4740	10/11/00	Channel Catfish	Fillet, Skin On
NJ000093-FC1-ROF [3]	Maurice River	Upstream of Laurel Lake outflow, NJ	39.3469	75.0240	09/15/00	White Perch	Carcass
NJ000095-FC1-ROF	Alloway Creek	~1.6 mi. upstream from mouth, NJ	39.5016	75.5076	09/19/00	White Perch	Carcass
DE000069-FC1-ROF	Christina River	Near 7th Street Penisula, ~0.38 mi. downstream of Christina Park, DE	39.7364	75.5348	09/22/00	White Perch	Carcass
PA000003-FC1-ROF	Schuylkill River	In Philadelphia, PA, ~0.2 mi. downstream from Rt. 3 Bridge	39.9543	75.1807	09/27/00	Channel Catfish	Carcass
NJ000061-FC1-ROF	Delaware Bay	~1.0 mi. WNW of Cape May Canal mouth, NJ	38.9723	74.9821	10/03/00	Weakfish	Carcass
NJ000061-FC2-ROF	Delaware Bay	~1.0 mi. WNW of Cape May Canal mouth, NJ	38.9723	74.9821	10/03/00	Weakfish	Carcass
DE000059-FC1-ROF	Broadkill River	~1 mi. downstream from SR1, DE	38.7974	75.2455	10/04/00	White Perch	Carcass
DE000051-FC1-ROF	Delaware River	~0.61 mi. E of Reedy Island, DE	39.5110	75.5530	10/11/00	White Perch	Carcass
DE000053-FC1-ROF	Delaware River	~2 mi. NE of Woodland Beach Wildlife Area, DE	39.3740	75.4680	10/04/00	Weakfish	Carcass
DE000047-FC1-ROF	Delaware River	Near Edgemoor, ~3.9 mi. below DE/PA/NJ stateline	39.7670	75.4740	10/11/00	White Perch	Carcass
NJ000073-FC1-ROF	Delaware River	Near Burlington-Bristol Bridge	40.0790	74.8700	10/10/00	White Perch	Carcass
NJ000079-FC2-ROF	Delaware River	Near Chester Island/Marcus Hook	39.8450	75.3380	10/11/00	White Perch	Carcass
NJ000075-FC2-ROF	Delaware River	Near Betsy Ross Bridge	39.9830	75.0670	10/10/00	White Perch	Carcass
DE000049-FC1-ROF	Delaware River	~0.92 mi. ESE of New Castle, DE	39.6530	75.5460	10/11/00	White Perch	Carcass
NJ000075-FC1-ROF	Delaware River	Near Betsy Ross Bridge	39.9830	75.0670	10/10/00	Channel Catfish	Carcass
NJ000073-FC2-ROF	Delaware River	Near Burlington-Bristol Bridge	40.0790	74.8700	10/10/00	Channel Catfish	Carcass
NJ000079-FC1-ROF	Delaware River	Near Chester Island/Marcus Hook	39.8450	75.3380	10/11/00	Channel Catfish	Carcass
DE000047-FC2-ROF	Delaware River	Near Edgemoor, ~3.9 mi. below DE/PA/NJ stateline	39.7670	75.4740	10/11/00	Channel Catfish	Carcass

Metals Results
Concentrations in mg/kg (ppm) wet

A. Whole Body Blue Crab

Sample ID	NJ00-0085-FC1	NJ00-0089-FC1	NJ00-0097-FC1	NJ00-0091-FC1
Aluminum	229	189	131	201
Arsenic	2.76	2.88	0.5	0.61
Cadmium	0.114	0.136	0.032	0.109
Chromium	0.38	0.39	0.96	0.5
Copper	17.1	23.8	24.9	18.3
Iron	126	155	168	160
Lead	0.198	0.114	0.198	0.121
Mercury	0.04	0.02	0.03	0.02
Nickel	0.63	0.48	1	0.56
Selenium	0.66	0.42	0.33	0.38
Silver	0.447	0.424	0.212	0.234
Tin	0.047	0.056	0.19	0.062
Zinc	26.4	39.8	21.2	32.4

B. Fish Fillet

Sample ID	NJ00-0093-FC1	NJ00-0095-FC1	DE00-0069-FC1	PA00-0003-FC1
Min Reporting Limit	Varies	Varies	Varies	Varies
Aluminum	5.4	2.35 B	2.21 B	2.23 B
Arsenic	0.31	0.33	0.2	0.1
Cadmium	0.005	0.006	0.005	ND
Chromium	0.13	0.06	0.06	0.08
Copper	0.6	0.54	1.09	1.27
Iron	7	6	7	7
Lead	0.086	0.046	0.025	0.037
Mercury	0.19	0.09	0.04	0.05
Nickel	0.18 B	0.12 B	0.07 B	0.1 B
Selenium	0.41	0.78	0.82	1.29

Silver	ND	ND	ND	0.005
Tin	0.027 B	0.042	0.056	0.058
Zinc	7.09	7.45	7.34	9.27

Notes:
ND = not detected
B = detected in the associated procedural blank

C. Fish Carcass

Sample ID	**NJ00-0093-FC1-ROF**	**NJ00-0095-FC1-ROF**	**DE00-0069-FC1-ROF**	**PA00-0003-FC1-ROF**
Min Reporting Limit	Varies	Varies	Varies	Varies
Aluminum	13.1	55.1	12.3	64.5
Arsenic	0.94	0.67	0.42	0.18
Cadmium	0.017	0.021	0.022	0.025
Chromium	0.22	0.55	0.14	0.61
Copper	8.57	17.2	15	18.4
Iron	29	76	39	86
Lead	0.798	0.29	0.345	0.71
Mercury	0.1	0.06	0.04	0.06
Nickel	0.32	0.32	0.46	0.8
Selenium	0.5	1.19	1.05	1.66
Silver	0.115	0.206	0.113	0.198
Tin	0.031	0.125	0.065	0.089
Zinc	23	29.5	34.3	37.4

Notes:
ND = not detected
B = detected in the associated procedural blank

D. Fillet + Carcass Combined (Whole Body Result)

Sample ID	**NJ00-0093-FC1**	**NJ00-0095-FC1**	**DE00-0069-FC1**	**PA00-0003-FC1**
Min Reporting Limit	Varies	Varies	Varies	Varies

Aluminum	11	40 B	9.6 B	48 B
Arsenic	0.74	0.57	0.36	0.16
Cadmium	0.013	0.017	0.017	0.018
Chromium	0.19	0.41	0.12	0.47
Copper	6.1	12	11	14
Iron	22	56	30	66
Lead	0.58	0.22	0.26	0.54
Mercury	0.13	0.068	0.04	0.057
Nickel	0.28 B	0.26 B	0.35 B	0.62 B
Selenium	0.47	1.1	0.99	1.6
Silver	0.079	0.15	0.082	0.15
Tin	0.03 B	0.1	0.062	0.081
Zinc	18	23	27	30

Notes:
B = detected in the associated procedural blank

NJ00-0067-FC1	DE00-0065-FC1	DE00-0037-FC1	DE00-0039-FC1	NJ00-0065-FC1
307	195	183	410	157
3.24	0.99	1.22	2.05	1.23
0.043	0.059	0.067	0.04	0.07
0.7	1.02	0.5	0.88	0.51
27.2	20.9	17.3	19.2	16.5
257	243	182	294	108
0.214	0.27	0.172	0.3	0.101
0.03	0.03	0.03	0.02	0.02
0.76	0.8	0.38	0.89	0.75
0.5	0.68	0.44	0.43	0.56
0.45	0.322	0.298	0.391	0.345
0.223	0.108	0.205	0.071	0.061
24	29.2	20.6	22.8	30.8

NJ00-0061-FC1	NJ00-0061-FC2	DE00-0059-FC1	DE00-0051-FC1	DE00-0053-FC1
Varies	Varies	Varies	Varies	Varies
33	18.4	2.53 B	13	16.7
0.94	1.22	0.27	0.37	0.69
ND	ND	ND	0.008	ND
0.1	0.09	0.09	0.3	0.2
6.26	0.51	1.32	3.24	0.51
8	8	7	11	19
0.21	0.009	0.016	0.049	0.028
0.1	0.04	0.18	0.12	0.12
1.74	0.08 B	0.07 B	0.28	0.06 B
0.52	0.47	0.46	0.99	0.62

0.005	ND	ND	0.01	ND
0.095	0.033	0.047	0.206	0.069
10.4	7.27	7.91	9.29	7.25

NJ00-0061-FC1-ROF	NJ00-0061-FC2-ROF	DE00-0059-FC1-ROF	DE00-0051-FC1-ROF	DE00-0053-FC1-ROF
Varies	Varies	Varies	Varies	Varies
174	59.6	21.1	35.7	39.6
1.55	1.74	0.44	0.62	1.14
0.014	0.005	ND	0.035	0.011
0.45	0.34	0.7	0.9	0.95
1.63	2.48	9.96	30.1	1.08
37	30	46	39	49
0.041	0.104	0.088	0.225	0.032
0.07	0.06	0.1	0.06	0.08
0.79	0.2 B	0.58	0.65	0.6
0.76	0.54	0.75	1.69	0.71
0.022	0.061	0.101	0.342	ND
0.093	0.125	0.019 B	0.117	0.133
21.3	21.4	30.8	36.6	24.8

NJ00-0061-FC1	NJ00-0061-FC2	DE00-0059-FC1	DE00-0051-FC1	DE00-0053-FC1
Varies	Varies	Varies	Varies	Varies

120	45	17 B	30	32
1.3	1.6	0.4	0.56	0.98
0.009	0.0033	0	0.028	0.0072
0.32	0.25	0.56	0.75	0.69
3.3	1.8	7.9	23	0.88
26	22	37	32	39
0.1	0.071	0.071	0.18	0.031
0.081	0.053	0.12	0.075	0.094
1.1	0.16 B	0.46 B	0.56	0.41 B
0.67	0.52	0.68	1.5	0.68
0.016	0.04	0.077	0.26	0
0.094	0.093	0.026 B	0.14	0.11
17	16	25	30	19

DE00-0047-FC1	NJ00-0073-FC1	NJ00-0079-FC2	NJ00-0075-FC2	DE00-0049-FC1
Varies	Varies	Varies	Varies	Varies
14.6	2.56 B	8.76	21.8	7.07
0.27	0.16	0.09	0.08	0.21
0.007	0.006	0.008	0.007	0.007
0.2	0.19	0.27	0.13	0.19
1.3	1.81	0.47	0.72	1.8
20	10	12	28	10
0.017	0.02	0.018	0.046	0.02
0.1	0.08	0.07	0.05	0.06
0.12 B	0.17 B	0.1 B	0.12 B	0.25
1.17	0.97	0.43	0.4	0.97

0.008	0.011	ND	ND	0.011
0.063	0.042	0.078	0.044	0.062
8.18	9.64	8.66	10.4	9.43

DE00-0047-FC1-ROF	NJ00-0073-FC1-ROF	NJ00-0079-FC2-ROF	NJ00-0075-FC2-ROF	DE00-0049-FC1-ROF
Varies	Varies	Varies	Varies	Varies
79.7	59.8	85	324	19.2
0.46	0.27	0.22	0.19	0.3
0.04	0.026	0.058	0.048	0.034
1.46	0.75	0.87	1.12	0.59
26	14.2	4.52	6.86	13.6
123	86	159	281	34
0.266	0.349	0.518	1.48	0.137
0.05	0.05	0.04	0.02	0.03
0.66	0.57	1.45	1.2	0.24 B
1.51	1.2	0.62	0.51	1.29
0.311	0.145	0.005	0.012	0.139
0.111	0.07	0.509	0.669	0.194
30.2	35.7	32.4	27.3	33.9

DE00-0047-FC1	NJ00-0073-FC1	NJ00-0079-FC2	NJ00-0075-FC2	DE00-0049-FC1
Varies	Varies	Varies	Varies	Varies

62	45 B	64	240	16
0.41	0.24	0.18	0.16	0.28
0.031	0.021	0.044	0.037	0.027
1.1	0.61	0.7	0.86	0.48
19	11	3.4	5.3	10
95	66	120	220	28
0.2	0.26	0.38	1.1	0.11
0.064	0.058	0.048	0.028	0.038
0.51 B	0.47 B	1.1 B	0.92 B	0.24 B
1.4	1.1	0.57	0.48	1.2
0.23	0.11	0.0036	0.0089	0.1
0.098	0.063	0.39	0.51	0.16
24	29	26	23	27

NJ00-0075-FC1		NJ00-0073-FC2		NJ00-0079-FC1		DE00-0047-FC2	
Varies		Varies		Varies		Varies	
13.6		5.96		4.12	B	32.6	
0.19		0.19		0.16		0.16	
0.006		0.02			ND	0.012	
0.08		0.19		0.07		0.21	
0.87		1.25		0.73		2.24	
17		18		9		35	
0.033		0.043		0.025		0.07	
0.1		0.05		0.07		0.06	
0.15	B	0.14	B	0.06	B	0.18	B
0.92		0.41		1.18		0.5	

ND	ND	ND	ND
0.048	0.091	0.067	0.178
8.89	12.3	8.25	10.8

NJ00-0075-FC1-ROF	**NJ00-0073-FC2-ROF**	**NJ00-0079-FC1-ROF**	**DE00-0047-FC2-ROF**
Varies	Varies	Varies	Varies
92.3	56.3	35.9	43.2
0.31	0.24	0.26	0.24
0.048	0.029	0.035	0.026
0.67	0.64	0.42	0.62
14.9	2.85	14.9	1.44
113	96	73	66
0.511	0.439	0.351	0.208
0.04	0.03	0.04	0.03
0.7	1.41	0.82	0.47
1.26	0.43	1.28	0.57
0.205	0.006	0.18	0.008
0.113	0.305	0.29	0.163
35.1	38.6	31	24.2

NJ00-0075-FC1	**NJ00-0073-FC2**	**NJ00-0079-FC1**	**DE00-0047-FC2**
Varies	Varies	Varies	Varies

68	45	27 B	41
0.27	0.23	0.23	0.22
0.035	0.027	0.025	0.023
0.49	0.54	0.32	0.53
11	2.5	11	1.6
84	79	55	59
0.37	0.35	0.26	0.18
0.058	0.034	0.048	0.036
0.53 B	1.1 B	0.6 B	0.41 B
1.2	0.42	1.2	0.56
0.14	0.0047	0.13	0.0063
0.093	0.26	0.23	0.17
27	33	24	21

D. Fillet + Carcass Combined (Whole Body Result)

Calculated PCB congener results for whole body fish were not provided as a part of the data delivered from Arthur D. Little to the Delaware River Basin Commission. Consequently, those results are not provided here. Data users can, however, easily calculate whole body results from the fillet and carcass results as follows:

Whole Body Result (ng/g) = [(conc in fillet x mass of fillet) + (conc in carcass x mass of carcass)]/[mass of fillet + mass of carcass]

The contaminant data to be used in the equation appear in sections B and C above. The fillet and carcass masses for each of the fish samples appear below.

Sample ID	Fillet (grams)	Carcass (grams)	Whole Body (grams)	% Filet:Carcass Mass	Ratio Carcass:Filet	
NJ00-0093-FC1	314.10	694.75	1008.85	45.2	2.2	
NJ00-0095-FC1	181.34	459.14	640.48	39.5	2.5	
DE00-0069-FC1	169.45	457.76	627.21	37.0	2.7	
PA00-0003-FC1	175.98	507.98	683.96	34.6	2.9	
NJ00-0061-FC1	306.28	542.84	849.12	56.4	1.8	
NJ00-0061-FC2	434.03	826.45	1260.48	52.5	1.9	
DE00-0059-FC1	99.14	326.44	425.58	30.4	3.3	
DE00-0051-FC1	120.01	347.84	467.85	34.5	2.9	
DE00-0053-FC1	439.84	832.70	1272.54	52.8	1.9	
DE00-0047-FC1	158.24	426.65	584.89	37.1	2.7	
NJ00-0073-FC1	156.04	453.05	609.09	34.4	2.9	
NJ00-0079-FC2	371.32	962.94	1334.26	38.6	2.6	
NJ00-0075-FC2	315.78	896.40	1212.18	35.2	2.8	
DE00-0049-FC1	89.72	252.25	341.97	35.6	2.8	
NJ00-0075-FC1	211.20	489.97	701.17	43.1	2.3	
NJ00-0073-FC2	253.72	892.74	1146.46	28.4	3.5	
NJ00-0079-FC1	201.34	504.45	705.79	39.9	2.5	
DE00-0047-FC2	252.52	939.44	1191.96	26.9	3.7	
				37.1	2.7	Median
				17	17	N

E. Lipid Results

OC Pesticides
Concentrations in ug/kg (ppb) wet

A. Whole Body Blue Crab

Sample ID	NJ00-0085-FC1		NJ00-0089-FC1		NJ00-0097-FC1	
Percent Lipids	1.5		1.94		0.736	
Min Reporting Limit	0.63		0.64		0.63	
Aldrin		ND		ND		ND
alpha-Chlordane	0.15	J	0.14	J	0.28	J
2,4'-DDT		ND	0.12	J	0.33	J
4,4'-DDT	0.028	J		ND	0.1	J
2,4'-DDE		ND		ND		ND
4,4'-DDE	6.2		5.8		27	D
2,4'-DDD		ND		ND		ND
4,4'-DDD	1.1		0.94		4.2	
Dieldrin	0.61	J	0.69		1.2	
Endosulfan I		ND		ND		ND
Endosulfan II		ND		ND		ND
Endosulfan Sulfate	0.086	J	0.16	J	0.41	J
Endrin		ND		ND		ND
Hexachlorobenzene		ND		ND	0.047	J
Heptachlor		ND		ND		ND
Heptachlor Epoxide	0.23	J	0.31	J	0.59	J
Lindane	0.083	J	0.074	J	0.081	J
Mirex	0.048	J	0.047	J	0.093	J
trans-Nonachlor	0.45	J	0.52	J	1.2	
Toxaphene		ND		ND		ND

Notes:
ND = not detected
J = estimated value below the minimum reporting limit

B. Fish Fillet

Sample ID	NJ00-0093-FC1		NJ00-0095-FC1		DE00-0069-FC1	
Percent Lipids	0.941		1.39		2.25	
Min Reporting Limit	0.66		0.66		0.64	
Aldrin		ND		ND		ND
alpha-Chlordane	0.81		4.2		7.9	
2,4'-DDT	0.39	J	2.2		3.5	
4,4'-DDT	0.31	J	2		4.6	
2,4'-DDE		ND		ND		ND
4,4'-DDE	10		68	D	57	D
2,4'-DDD	0.81		7.9		11	
4,4'-DDD	1.6		26		21	D
Dieldrin	0.81		5		9.7	
Endosulfan I		ND		ND		ND
Endosulfan II		ND		ND		ND

Endosulfan Sulfate	0.46	J	0.58	J	0.94	
Endrin		ND	0.044	J	0.055	J
Hexachlorobenzene	0.067	J	0.85		2	
Heptachlor		ND		ND		ND
Heptachlor Epoxide	0.093	J	0.72		2.2	
Lindane	0.063	J	0.1	J	0.16	J
Mirex	0.077	J	0.28	J	0.38	J
trans-Nonachlor	1		4.4		8	
Toxaphene		ND		ND		ND

Notes:
ND = not detected
J = estimated value below the minimum reporting limit
D = concentration quantified from dilution analysis

C. Fish Carcass

Sample ID	**NJ00-0093-FC1-ROF**		**NJ00-0095-FC1-ROF**		**DE00-0069-FC1-ROF**	
Percent Lipids	6.54		6.13		10.4	
Min Reporting Limit	0.83		0.87		0.64	
Aldrin		ND		ND		ND
alpha-Chlordane	4.9		17		30	D
2,4'-DDT	2.1		6.8		10	
4,4'-DDT	1.9		8.7		20	
2,4'-DDE		ND		ND		ND
4,4'-DDE	60	D	240	D	260	D
2,4'-DDD	4.4		31		42	D
4,4'-DDD	16		54	D	64	D
Dieldrin	5.2		22		27	D
Endosulfan I		ND		ND		ND
Endosulfan II		ND		ND		ND
Endosulfan Sulfate	2		1.7		2.8	
Endrin	0.044	J	0.17	J	0.27	J
Hexachlorobenzene	0.4	J	3		7.2	
Heptachlor		ND		ND		ND
Heptachlor Epoxide	0.52	J	2.9		9.1	
Lindane	0.34	J	0.44	J	0.54	J
Mirex	0.44	J	0.98		1.2	
trans-Nonachlor	6.2		19		31	
Toxaphene		ND		ND		ND

Notes:
ND = not detected
J = estimated value below the minimum reporting limit
D = concentration quantified from dilution analysis

D. Fillet + Carcass Combined (Whole Body Result)

Sample ID	**NJ00-0093-FC1**	**NJ00-0095-FC1**	**DE00-0069-FC1**
Percent Lipids	NA	NA	NA

Min Reporting Limit	0.78		0.81		0.64	
Aldrin		ND		ND		ND
alpha-Chlordane	3.6		13		24	
2,4'-DDT	1.6		5.5		8.2	
4,4'-DDT	1.4		6.8		16	
2,4'-DDE		ND		ND		ND
4,4'-DDE	44		190		200	
2,4'-DDD	3.3		24		34	
4,4'-DDD	12		46		52	
Dieldrin	3.8		17		22	
Endosulfan I		ND		ND		ND
Endosulfan II		ND		ND		ND
Endosulfan Sulfate	1.5		1.4		2.3	
Endrin	0.03	J	0.13	J	0.21	J
Hexachlorobenzene	0.3	J	2.4		5.8	
Heptachlor		ND		ND		ND
Heptachlor Epoxide	0.39	J	2.3		7.2	
Lindane	0.25	J	0.34	J	0.44	J
Mirex	0.33	J	0.78	J	0.98	
trans-Nonachlor	4.6		15		25	
Toxaphene		ND		ND		ND

Notes:
ND = not detected
J = estimated value below the minimum reporting limit

NJ00-0091-FC1		NJ00-0067-FC1		DE00-0065-FC1		DE00-0037-FC1	
0.796		1.2		1.22		0.976	
0.66		0.65		0.65		0.66	
	ND		ND		ND		ND
0.095	J	0.076	J	0.24	J	0.12	J
0.066	J	0.12	J	0.2	J	0.16	J
	ND		ND	0.019	J	0.032	J
	ND		ND		ND		ND
6.8		7.1		22		8.2	
	ND		ND		ND	0.29	J
0.96		0.84		3.4		0.95	
0.84		0.5	J	1.6		0.79	
	ND		ND		ND		ND
	ND		ND		ND		ND
0.17	J	0.1	J	0.27	J	0.19	J
	ND		ND		ND		ND
	ND		ND	0.072	J	0.03	J
	ND		ND		ND		ND
0.45	J	0.32	J	0.57	J	0.47	J
0.064	J	0.046	J	0.22	J	0.041	J
0.035	J	0.045	J	0.093	J	0.042	J
0.24	J	0.31	J	0.76		0.28	J
	ND		ND		ND		ND

PA00-0003-FC1		NJ00-0061-FC1		NJ00-0061-FC2		DE00-0059-FC1	
2.6		5.21		2.68		1.13	
0.65		0.82		0.66		0.65	
	ND		ND		ND		ND
12		0.4	J	0.34	J	0.59	J
5.4		0.32	J	0.26	J	0.19	J
7.3		0.11	J	0.13	J	0.16	J
	ND		ND		ND		ND
60	D	7.3		5.7		15	
5.8		0.43	J	0.32	J	0.62	J
21		1		1.1		1.4	
15		0.66	J	0.46	J	0.23	J
	ND		ND		ND		ND
	ND		ND		ND		ND

1.2		0.22	J	0.056	J	0.18	J
0.2	J		ND		ND		ND
1.1		0.063	J	0.063	J	0.038	J
0.094	J		ND		ND		ND
2.2		0.19	J	0.13	J	0.079	J
0.45	J	0.075	J	0.049	J	0.014	J
0.48	J	0.052	J	0.06	J	0.086	J
12		0.49	J	0.48	J	0.58	J
	ND		ND		ND		ND

PA00-0003-FC1-ROF		NJ00-0061-FC1-ROF		NJ00-0061-FC2-ROF		DE00-0059-FC1-ROF	
8.12		9.85		6.8		5.08	
0.65		0.91		0.76		0.64	
	ND		ND		ND		ND
28	D	0.89	J	0.79		2.7	
9.4		0.67	J	0.82		0.78	
14		0.24	J	0.33	J	0.67	
	ND		ND		ND		ND
170	D	19		21		64	D
14		1		1		2.4	
46	D	4.1		3.1		7.9	
29	D	1.4		1		1	
	ND		ND		ND		ND
	ND		ND		ND		ND
3		0.33	J	0.15	J	0.46	J
0.46	J		ND		ND		ND
2.6		0.16	J	0.11	J	0.15	J
0.17	J		ND		ND		ND
6		0.36	J	0.21	J	0.25	J
1		0.21	J	0.099	J	0.08	J
1.3		0.13	J	0.18	J	0.55	J
27	D	1.1		1.3		2.8	
	ND		ND		ND		ND

PA00-0003-FC1	NJ00-0061-FC1	NJ00-0061-FC2	DE00-0059-FC1
NA	NA	NA	NA

0.65		0.88		0.72		0.64	
	ND		ND		ND		ND
24		0.71	J	0.64	J	2.2	
8.4		0.54	J	0.63	J	0.64	
12		0.19	J	0.26	J	0.55	J
	ND		ND		ND		ND
140		15		16		52	
12		0.79	J	0.76		2	
40		3		2.4		6.4	
25		1.1		0.81		0.82	
	ND		ND		ND		ND
	ND		ND		ND		ND
2.5		0.29	J	0.12	J	0.39	J
0.39	J		ND		ND		ND
2.2		0.12	J	0.094	J	0.12	J
0.15	J		ND		ND		ND
5		0.3	J	0.18	J	0.21	J
0.86		0.16	J	0.082	J	0.065	J
1.1		0.1	J	0.14	J	0.44	J
23		0.88		1		2.3	
	ND		ND		ND		ND

DE00-0039-FC1		NJ00-0065-FC1	
1.22		2.22	
0.66		0.65	
	ND		ND
0.16	J	0.079	J
0.22	J		ND
0.1	J	0.018	J
	ND		ND
18		4.7	
0.36	J	0.22	J
1.9		1.1	
1.1		0.81	
	ND		ND
	ND		ND
0.33	J	0.12	J
	ND		ND
0.063	J	0.031	J
	ND		ND
0.38	J	0.36	J
0.033	J	0.04	J
0.044	J	0.034	J
0.49	J	0.3	J
	ND		ND

DE00-0051-FC1		DE00-0053-FC1		DE00-0047-FC1		NJ00-0073-FC1	
1.76		4.7		4.09		1.65	
0.64		0.63		0.65		0.65	
	ND		ND		ND		ND
8.7		0.97		18		8.2	
6.2		1.2			ND	3.4	
5		0.73		11		6.3	
	ND		ND		ND		ND
130	D	28	D	180	D	90	D
13		1.7		28		9.2	
26	D	5		43	D	20	D
6.8		2		21		4.9	
	ND		ND		ND		ND
	ND		ND		ND		ND

0.83	0.7	2.2	1
ND	ND	0.2 J	0.086 J
1.2	0.18 J	4.3	0.95
ND	ND	ND	0.034 J
1.2	0.37 J	3.2	0.92
0.15 J	0.16 J	0.55 J	0.26 J
0.44 J	0.23 J	ND	ND
10	1.5	16	8.9
ND	ND	ND	ND

DE00-0051-FC1-ROF	DE00-0053-FC1-ROF	DE00-0047-FC1-ROF	NJ00-0073-FC1-ROF
6.96	8.26	10.9	8.02
0.83	0.87	0.79	0.85
ND	ND	ND	ND
36	2	41 D	29
13	2	ND	ND
21	1.1	30	19
ND	ND	ND	ND
530 D	50 D	540 D	370 D
48 D	3.4	76 D	31
110 D	15	180 D	70 D
35	5.2	39 JD	17
ND	ND	ND	ND
ND	ND	ND	ND
4.7	1	4.7	2.4
0.28 J	ND	0.56 J	0.34 J
4.7	0.44 J	12	3.1
ND	ND	ND	0.12 J
5	0.84 J	9.5	3.1
0.83	0.42 J	1.6	0.89
1.7	0.48 J	1.7	1.1
32 JD	2.8	39 JD	31
ND	ND	ND	ND

DE00-0051-FC1	DE00-0053-FC1	DE00-0047-FC1	NJ00-0073-FC1
NA	NA	NA	NA

0.78		0.79		0.75	
	ND		ND		ND
29		1.6		35	
11		1.7			ND
17		0.97		25	
	ND		ND		ND
430		42		440	
39		2.8		63	
88		12		140	
28		4.1		34	
	ND		ND		ND
	ND		ND		ND
3.7		0.9		4	
0.21	J		ND	0.46	J
3.8		0.35	J	9.9	
	ND		ND		ND
4		0.68	J	7.8	
0.66	J	0.33	J	1.3	
1.4		0.39	J	1.2	
26		2.4		33	
	ND		ND		ND

NJ00-0079-FC2		NJ00-0075-FC2		DE00-0049-FC1		NJ00-0075-FC1	
4.72		4.05		2.24		3.36	
0.96		0.81		0.66		0.66	
	ND	0.4	J		ND		ND
16		17		9.3		15	
	ND	5.8		3.2		5	
7.8		8.6		4.4		9.8	
	ND		ND		ND		ND
230	D	200	D	94	D	140	D
16		17		14		20	
61	D	49	D	28	D	40	D
18		21		11		14	
	ND		ND		ND		ND
	ND		ND		ND		ND

1.2		0.66	J	1.4		1.3	
0.15	J	0.18	J		ND		ND
4.1		2.6		1.9		1.5	
0.056	J	0.28	J		ND	0.08	J
3.6		3		1.6		2.2	
0.66	J	0.64	J	0.26	J	0.3	J
1.7			ND	0.27	J	0.56	J
16		15		7.3		15	
	ND		ND		ND		ND

NJ00-0079-FC2-ROF		NJ00-0075-FC2-ROF		DE00-0049-FC1-ROF		NJ00-0075-FC1-ROF	
11		14.1		6.7		9.79	
0.91		0.78		0.66		0.8	
	ND	1.1			ND		ND
40		36	D	29	D	50	D
15	JD	12	JD		ND		ND
16		17		20		36	
	ND		ND		ND		ND
550	D	460	D	400	D	680	D
35		37	D	46	D	68	D
110	D	91	D	73	D	130	D
44		43	D	28	D	37	JD
	ND		ND		ND		ND
	ND		ND		ND		ND
2.8		2.4		3.5		4.3	
0.45	J	0.52	J	0.5	J	0.69	J
9		6.2		7.1		5.3	
0.098	J	0.7	J	0.15	J	0.27	J
8.7		7.8		7.3		8.6	
1.5		1.8		1.1		1.1	
2.9		4.8		1.5		2	
37		34		25	D	49	D
	ND		ND		ND		ND

NJ00-0079-FC2	NJ00-0075-FC2	DE00-0049-FC1	NJ00-0075-FC1
NA	NA	NA	NA

0.92	0.79	0.66	0.76
ND	0.92	ND	ND
33	31	24	39
11	10	0.84	1.5
14	15	16	28
ND	ND	ND	ND
460	390	320	520
30	32	38	54
96	80	61	100
37	37	24	30
ND	ND	ND	ND
ND	ND	ND	ND
2.4	1.9	2.9	3.4
0.37 J	0.43 J	0.37 J	0.48 J
7.6	5.3	5.7	4.2
0.086 J	0.59 J	0.11 J	0.21 J
7.3	6.5	5.8	6.7
1.3	1.5	0.88	0.86
2.6	3.5	1.2	1.6
31	29	20	39
ND	ND	ND	ND

NJ00-0073-FC2		NJ00-0079-FC1		DE00-0047-FC2	
5.51		2.77		4.89	
0.64		0.64		0.66	
0.35	J		ND	0.3	J
17		9.2		15	
6		4.5			ND
14		4.2		7.2	
	ND		ND	20	
180	D	99	D	160	D
15		13		15	
51	D	32	D	63	D
13		13		20	
	ND		ND	3.5	
	ND		ND		ND

1.3		1.1		2.1	
0.2	J		ND		ND
2.4		1.8		5	
0.13	J	0.052	J	0.07	J
2.1		1.9		3.3	
0.59	J	0.34	J	0.7	
1		0.35	J	0.39	J
19		8.1		13	
	ND		ND		ND

NJ00-0073-FC2-ROF		NJ00-0079-FC1-ROF		DE00-0047-FC2-ROF	
13.2		12		11.9	
0.8		0.77		0.86	
0.5	J		ND	1.1	
30		36	D	35	
	ND		ND		ND
22		21		15	
	ND		ND		ND
350	D	520	D	360	D
24		55	D	33	
70	D	100	D	95	D
24		41	D	34	D
	ND		ND		ND
	ND		ND		ND
1.1		4.5		3.5	
0.45	J	0.66	J	0.49	J
3.9		7.4		9.8	
0.19	J	0.25	J	0.16	J
4.1		8.8		7.3	
1.1		1.6		1.7	
1.9		1.5		2.3	
34	D	30	D	29	
	ND		ND		ND

NJ00-0073-FC2	NJ00-0079-FC1	DE00-0047-FC2
NA	NA	NA

0.76		0.73		0.82	
0.47	J		ND	0.93	
27		28		31	
1.3		1.3			ND
20		16		13	
	ND		ND	4.2	
310		400		320	
22		43		29	
66		81		88	
22		33		31	
	ND		ND	0.74	J
	ND		ND		ND
1.1		3.5		3.2	
0.39	J	0.47	J	0.39	J
3.6		5.8		8.8	
0.18	J	0.19	J	0.14	J
3.6		6.8		6.4	
0.99		1.2		1.5	
1.7		1.2		1.9	
31		24		26	
	ND		ND		ND

Polynuclear Aromatic Hydrocarbon Results
Concentrations in ug/kg (ppb) wet

A. Whole Body Blue Crab

Sample ID	NJ00-0085-FC1		NJ00-0089-FC1		NJ00-0097-FC1
Percent Lipids	1.5		1.94		0.736
Min Reporting Limit	3.2		3.2		3.2
Naphthalene	1.4	JB	0.63	JB	0.8
1-Methylnaphthalene	1.1	J	0.22	JB	0.2
2-Methylnaphthalene	1.6	J	0.39	JB	0.32
2,6-Dimethylnaphthalene	0.29	J	0.14	J	0.084
2,3,5-Trimethylnaphthalene		ND		ND	
Acenaphthylene	0.26	J		ND	0.036
Acenaphthene	2.9	J	0.079	J	0.13
Biphenyl	0.14	JB	0.095	JB	0.083
Fluorene	0.71	J	0.11	J	0.1
Anthracene	0.52	J	0.074	J	0.077
1-Methylphenanthrene	0.099	J	0.045	J	0.057
Dibenzothiophene	0.16	J	0.044	J	0.048
Fluoranthene	5.3		0.24	JB	0.24
Pyrene	3.8		0.2	JB	0.19
Benzo[a]anthracene		ND		ND	
Chrysene	1.2	J	0.067	J	0.097
Benzo[b]fluoranthene	0.56	J	0.1	J	0.096
Benzo[k]fluoranthene	0.29	J	0.046	J	0.028
Benzo[a]pyrene	0.28	J		ND	
Indeno[1,2,3,-c,d]pyrene	0.078	J		ND	
Dibenzo[a,h]anthracene		ND		ND	
Benzo[g,h,i]perylene	0.15	JB	0.1	JB	0.054

Notes:
ND = not detected
J = estimated value below the minimum reporting limit
B = detected in associated procedural blank

B. Fish Fillet

Sample ID	NJ00-0093-FC1		NJ00-0095-FC1		DE00-0069-FC1
Percent Lipids	1.01		1.26		2.4
Min Reporting Limit	3.3		3.3		3.3
Naphthalene	2.1	JB	1.3	JB	1.5
1-Methylnaphthalene	0.56	JB	0.32	JB	0.66
2-Methylnaphthalene	0.98	JB	0.53	JB	1
2,6-Dimethylnaphthalene	0.54	J	0.17	J	0.4
2,3,5-Trimethylnaphthalene	0.29	J	0.15	J	0.32
Acenaphthylene	0.1	J	0.36	J	1
Acenaphthene	0.18	J	0.27	J	1.7
Biphenyl	0.38	J	0.63	J	2.1

Fluorene	0.54	J		ND	1.4
Anthracene	0.41	J	0.77	J	3.2
1-Methylphenanthrene	0.83	J		ND	
Dibenzothiophene	0.96	J		ND	
Fluoranthene	0.76	JB	0.77	JB	3.4
Pyrene	0.82	J	0.51	JB	1.4
Benzo[a]anthracene	0.63	J		ND	
Chrysene	0.4	J		ND	
Benzo[b]fluoranthene	0.24	J	0.2	J	0.18
Benzo[k]fluoranthene	0.072	J	0.14	J	0.22
Benzo[a]pyrene	0.16	J		ND	
Indeno[1,2,3,-c,d]pyrene	0.13	J		ND	0.14
Dibenzo[a,h]anthracene	0.071	J		ND	0.043
Benzo[g,h,i]perylene	0.3	JB	0.27	JB	0.34

Notes:
ND = not detected
J = estimated value below the minimum reporting limit
B = detected in associated procedural blank

C. Fish Carcass

Sample ID	**NJ00-0093-FC1-ROF**		**NJ00-0095-FC1-ROF**		**DE00-0069-FC1-ROF**
Percent Lipids	6.54		6.13		10.4
Min Reporting Limit	4.2		4.4		3.2
Naphthalene	1.8	J	1.5	J	3.3
1-Methylnaphthalene	0.52	J	0.84	J	2.3
2-Methylnaphthalene	1.1	J	1.2	J	3.3
2,6-Dimethylnaphthalene	0.35	J	0.66	J	1.8
2,3,5-Trimethylnaphthalene		ND	0.88	J	1.4
Acenaphthylene	0.39	J	2.3	J	6
Acenaphthene	0.19	J	0.92	J	6.8
Biphenyl	0.6	JB		ND	9.1
Fluorene	0.42	J	1.2	J	4.7
Anthracene	1.1	J	5.4		17
1-Methylphenanthrene	1.5	J		ND	
Dibenzothiophene	0.13	JB		ND	1.4
Fluoranthene	0.92	J	2.8	J	12
Pyrene	0.59	J	2	J	5.3
Benzo[a]anthracene		ND		ND	0.67
Chrysene	0.22	J	1.2	J	2
Benzo[b]fluoranthene	0.25	J	0.15	J	0.35
Benzo[k]fluoranthene	0.16	J	0.42	J	
Benzo[a]pyrene		ND		ND	
Indeno[1,2,3,-c,d]pyrene	0.19	J		ND	0.22
Dibenzo[a,h]anthracene	0.077	J		ND	0.079
Benzo[g,h,i]perylene	0.88	JB	0.31	JB	0.53

Notes:
ND = not detected

J = estimated value below the minimum reporting limit
B = detected in associated procedural blank

D. Fillet + Carcass Combined (Whole Body Result)

Sample ID	NJ00-0093-FC1		NJ00-0095-FC1		DE00-0069-FC1
Percent Lipids	NA		NA		NA
Min Reporting Limit	3.9		4.1		3.2
Naphthalene	1.9	J	1.4	J	2.8
1-Methylnaphthalene	0.53	J	0.69	J	1.8
2-Methylnaphthalene	1.1	J	1	J	2.7
2,6-Dimethylnaphthalene	0.41	J	0.52	J	1.4
2,3,5-Trimethylnaphthalene	0.09	J	0.67	J	1.1
Acenaphthylene	0.3	J	1.8	J	4.6
Acenaphthene	0.19	J	0.74	J	5.4
Biphenyl	0.53	J	0.18	J	7.2
Fluorene	0.46	J	0.86	J	3.8
Anthracene	0.88	J	4.1		13
1-Methylphenanthrene	1.3	J		ND	
Dibenzothiophene	0.39	J		ND	1
Fluoranthene	0.87	J	2.2	J	9.7
Pyrene	0.66	J	1.6	J	4.2
Benzo[a]anthracene	0.2	J		ND	0.49
Chrysene	0.28	J	0.86	J	1.4
Benzo[b]fluoranthene	0.25	J	0.16	J	0.3
Benzo[k]fluoranthene	0.13	J	0.34	J	0.059
Benzo[a]pyrene	0.05	J		ND	
Indeno[1,2,3,-c,d]pyrene	0.17	J		ND	0.2
Dibenzo[a,h]anthracene	0.075	J		ND	0.069
Benzo[g,h,i]perylene	0.7	J	0.3	J	0.48

Notes:
ND = not detected
J = estimated value below the minimum reporting limit

	NJ00-0091-FC1		NJ00-0067-FC1		DE00-0065-FC1		DE00-0037-FC1
	0.798		1.2		1.22		0.976
	3.3		3.2		3.2		3.3
JB	0.61	JB	0.62	JB	0.76	JB	0.7
JB	0.21	JB	0.36	JB	0.26	JB	0.2
JB	0.36	JB	0.51	JB	0.41	JB	0.29
J	0.12	J	0.13	J	0.1	J	0.1
ND		ND		ND		ND	
J	0.04	J	0.037	J	0.066	J	0.041
J	0.066	J	0.093	J	0.15	J	0.075
JB	0.1	JB	0.17	JB	0.12	JB	0.098
J	0.13	J	0.11	J	0.15	J	0.14
J	0.09	J	0.065	J	0.15	J	0.071
J	0.055	J	0.063	J	0.076	J	0.067
J	0.061	J	0.054	J	0.06	J	0.085
JB	0.23	JB	0.28	JB	0.33	JB	0.26
JB	0.18	JB	0.22	JB	0.29	JB	0.22
ND		ND		ND		ND	
J	0.086	J	0.1	J		ND	0.15
J	0.11	J	0.15	J	0.18	J	0.14
J	0.043	J	0.059	J	0.067	J	0.078
ND		ND		ND		ND	0.13
ND		ND		ND		ND	
ND		ND		ND		ND	
JB	0.063	JB	0.17	JB	0.12	JB	0.12

	PA00-0003-FC1		NJ00-0061-FC1		NJ00-0061-FC2		DE00-0059-FC1
	1.98		4.83		2.68		0.985
	3.3		3.3		3.3		3.3
JB	3.4	B	1.3	JB	0.9	JB	0.93
JB	3.8		0.52	JB	0.42	JB	0.22
J	6.7		0.86	JB	0.73	JB	0.37
J	2.6	J	0.48	J	0.32	J	0.074
J	2.7	J	0.19	J	0.16	J	0.061
J	0.84	J	0.14	J	0.1	J	
J	3.2	J	0.84	J	0.64	J	0.069
J	1.6	J	0.43	J	0.49	J	0.26

J	3.3		0.95	J	0.67	J	0.12
J	2.4	J	0.28	J	0.17	J	0.1
ND	0.53	J	0.17	J	0.15	J	
ND	1.1	J	0.18	J		ND	0.046
	4.4		0.92	JB	0.71	JB	0.29
J	1.2	J	0.28	JB	0.22	JB	0.13
ND		ND		ND		ND	
ND		ND		ND		ND	
J	0.14	J	0.13	J	0.22	J	0.23
J	0.089	J	0.039	J	0.066	J	0.062
ND		ND		ND		ND	
J	0.088	J	0.074	J	0.15	J	0.31
J	0.036	J		ND		ND	
JB	0.25	JB	0.16	JB	0.39	JB	0.45

	PA00-0003-FC1-ROF		NJ00-0061-FC1-ROF		NJ00-0061-FC2-ROF		DE00-0059-FC1-ROF
	8.1		9.83		6.81		5.08
	3.2		4.6		3.8		3.2
	9.8		3.3	J	2.3	J	1.4
J	12		1.3	J	0.9	J	0.7
	22		2	J	1.5	J	1.2
J	11		0.98	J	0.89	J	0.4
J	10		0.49	J	0.46	J	0.22
	3.9		0.37	J	0.22	J	0.2
	12		1.8	J	1.3	J	0.19
	5.2		1.1	J	1.2	J	0.24
	12		2.1	J	1.4	J	0.32
	10		0.71	J	0.45	J	0.43
ND	2	J	0.67	J	0.47	J	
J	3.6		0.43	J	0.33	J	0.084
	17		1.8	J	1.4	J	0.52
	7		0.64	J	0.49	J	0.24
J	2.2	J		ND		ND	
J	4.4			ND	0.25	J	0.094
J	2.8	J	0.25	J	0.24	J	0.14
ND	1.2	J	0.11	J	0.083	J	0.098
ND	1.6	J		ND		ND	
J	1.3	J	0.2	J	0.19	J	0.11
J	0.26	J	0.067	J	0.06	J	0.046
JB	1.5	JB	0.61	JB	0.5	JB	0.2

	PA00-0003-FC1		NJ00-0061-FC1		NJ00-0061-FC2		DE00-0059-FC1
	NA		NA		NA		NA
	3.2		4.1		3.6		3.2
J	8.2		2.6	J	1.8	J	1.3
J	9.9		1	J	0.73	J	0.59
J	18		1.6	J	1.2	J	1
J	8.8		0.8	J	0.69	J	0.32
J	8.1		0.38	J	0.36	J	0.18
	3.1	J	0.29	J	0.18	J	0.15
	9.7		1.4	J	1.1	J	0.16
	4.3		0.86	J	0.96	J	0.24
	9.8		1.7	J	1.1	J	0.27
	8		0.55	J	0.35	J	0.35
ND	1.6	J	0.49	J	0.36	J	
J	3	J	0.34	J	0.22	J	0.075
	14		1.5	J	1.2	J	0.47
	5.5		0.51	J	0.4	J	0.21
J	1.6	J		ND		ND	
J	3.3			ND	0.16	J	0.072
J	2.1	J	0.21	J	0.23	J	0.16
J	0.91	J	0.084	J	0.077	J	0.09
ND	1.2	J		ND		ND	
J	0.99	J	0.15	J	0.18	J	0.16
J	0.2	J	0.043	J	0.039	J	0.035
J	1.2	J	0.45	J	0.46	J	0.26

	DE00-0039-FC1		NJ00-0065-FC1	
	1.22		2.22	
	3.3		3.2	
JB	1	JB	1.4	JB
JB	0.33	JB	0.45	JB
JB	0.52	JB	0.95	JB
J	0.21	J	0.3	J
ND		ND		ND
J	0.074	J	0.074	J
J	0.12	J	0.12	J
JB	0.12	JB	0.14	JB
J	0.18	J	0.16	J
J	0.25	J	0.092	J
J	0.13	J	0.045	J
J	0.088	J	0.047	J
JB	0.54	JB	0.19	JB
JB	0.49	JB	0.14	JB
ND		ND		ND
J	0.67	J	0.12	J
J	0.54	J	0.09	J
J	0.29	J	0.09	J
J	0.36	J		ND
ND	0.14	J		ND
ND		ND		ND
JB	0.24	JB	0.11	JB

	DE00-0051-FC1		DE00-0053-FC1		DE00-0047-FC1		NJ00-0073-FC1
	1.24		3.64		3.15		na
	3.3		3.3		3.3		na
JB	1.1	JB	1	JB	1.3	JB	na
JB	0.25	JB	0.38	JB	0.56	JB	na
JB	0.4	JB	0.6	JB	0.81	JB	na
J	0.2	J	0.35	J	0.76	J	na
J	0.25	J	0.21	J	1.7	J	na
ND	0.59	J	0.11	J	1.8	J	na
J	0.25	J	0.19	J	1.4	J	na
J	0.52	J	0.4	J	1.2	J	na

J	0.52	J	0.52	J	1.7	J	na
J	1.5	J	0.2	J	4.6		na
ND		ND	0.24	J		ND	na
J	0.27	J	0.15	J	0.82	J	na
JB	0.61	JB	0.34	JB	2.6	J	na
JB	0.39	JB	0.24	JB	2	J	na
ND		ND		ND		ND	na
ND		ND		ND		ND	na
J	0.16	J	0.21	J	0.23	J	na
J	0.2	J	0.077	J	0.31	J	na
ND		ND		ND		ND	na
J	0.1	J	0.11	J	0.24	J	na
ND		ND		ND		ND	na
JB	0.47	JB	0.46	JB	0.4	JB	na

	DE00-0051-FC1-ROF		**DE00-0053-FC1-ROF**		**DE00-0047-FC1-ROF**		**NJ00-0073-FC1-ROF**
	6.96		8.26		10.9		8.06
	4.2		4.3		4		4.3
J	2.4	J	2.8	J	3.4	J	3.3
J	0.89	J	1	J	1.2	J	1.8
J	1.3	J	1.7	J	1.8	J	3.2
J	1	J	1.1	J	1.5	J	1.2
J	1.3	J	0.58	J	2.1	J	0.81
J	4.3		0.35	J	6.5		3.4
J	1.3	J	2.4	J	2.5	J	0.95
JB		ND	1.1	J	3.1	J	2.3
J	2.1	J	1.4	J	3.5	J	1.7
J	9.7		0.77	J	13		7.5
ND		ND	0.75	J		ND	
JB	1.2	J	0.33	J	1.5	J	0.7
J	2	J	0.5	J	5.6		2.8
JB	1.6	J	0.38	J	4.9		2.6
ND		ND		ND		ND	
J	0.95	J	0.17	J		ND	1.7
J		ND	0.28	J	0.97	J	0.47
J		ND	0.19	J		ND	0.34
ND		ND		ND	0.81	J	0.2
J		ND	0.22	J	0.55	J	0.34
J		ND	0.091	J	0.18	J	0.094
JB		ND	0.81	JB	1.1	JB	0.65

	DE00-0051-FC1		DE00-0053-FC1		DE00-0047-FC1		NJ00-0073-FC1
	NA		NA		NA		NA
	4		4		3.8		
J	2.1	J	2.2	J	2.8	J	
J	0.72	J	0.78	J	1	J	
J	1.1	J	1.3	J	1.5	J	
J	0.79	J	0.84	J	1.3	J	
J	1	J	0.45	J	2	J	
J	3.3	J	0.27	J	5.2		
J	1	J	1.6	J	2.2	J	
J	0.13	J	0.86	J	2.6	J	
J	1.7	J	1.1	J	3	J	
J	7.6		0.57	J	11		
ND		ND	0.57	J		ND	
J	0.96	J	0.27	J	1.3	J	
J	1.6	J	0.44	J	4.8		
J	1.3	J	0.33	J	4.1		
ND		ND		ND		ND	
J	0.71	J	0.11	J		ND	
J	0.041	J	0.26	J	0.77	J	
J	0.051	J	0.15	J	0.084	J	
ND		ND		ND	0.59	J	
J	0.026	J	0.18	J	0.47	J	
J		ND	0.06	J	0.13	J	
J	0.12	J	0.69	J	0.91	J	

NJ00-0079-FC2		NJ00-0075-FC2		DE00-0049-FC1		NJ00-0075-FC1
5.35		5.07		1.93		2.65
3.3		3.3		3.3		3.4
1.2	JB	5.1		1.5	JB	1.6
0.99	J	4.6		0.32	JB	0.58
1.5	J	6.1		0.52	JB	1
0.58	J	3	J	0.19	J	0.37
0.59	J	2.9	J	0.28	J	0.3
2.6	J	2.1	J	0.74	J	0.93
0.75	J	3.6		0.21	J	0.65
0.6	J	2	J	0.61	J	0.9

	0.78	J	2.5	J	0.38	J	0.77
	3.8		3.5		1.9	J	2.6
		ND		ND		ND	
	0.41	J	0.94	J	0.3	J	0.43
	1.2	J	2.9	J	0.53	JB	1.6
	1.8	J	2.6	J	0.57	JB	1.6
		ND	0.8	J		ND	
		ND	1.2	J		ND	
	0.2	J	0.64	J	0.2	J	0.13
	0.57	J	0.31	J	0.17	J	0.16
		ND	0.37	J		ND	
		ND	0.24	J	0.15	J	
		ND		ND		ND	
	0.1	JB	0.36	JB	0.56	JB	0.57

	NJ00-0079-FC2-ROF		NJ00-0075-FC2-ROF		DE00-0049-FC1-ROF		NJ00-0075-FC1-ROF
	11		14.1		6.72		9.78
	4.5		3.9		3.3		4
J	2.4	J	15		2	J	2.4
J	2	J	13		0.64	J	1.7
J	3.2	J	19		0.91	J	2.6
J	1.7	J	14		0.62	J	1.4
J	1.4	J	9.6		1.2	J	1.4
J	8		8.1		3.8		5.6
J	1.4	J	12		0.89	J	2.1
J	1	J	6.5			ND	
J	1.9	J	7.7			ND	2.5
	10		12		7.6		12
ND		ND	2.6	J		ND	
J	1.3	J	2.6	J		ND	1.6
J	2.8	J	15		1.6	J	5.2
J	5.5		14		2	J	6.7
ND	1.4	J	6			ND	1.1
J	2.7	J	7.7		0.92	J	3.4
J	1.3	J	8.1		0.32	J	0.78
J		ND	3.7	J		ND	
J	0.55	J	5.3			ND	0.36
J	0.32	J	3.7	J	0.36	J	0.25
J	0.13	J	0.77	J	0.084	J	
JB	0.83	JB	4.4		1	JB	0.36

NJ00-0079-FC2	NJ00-0075-FC2	DE00-0049-FC1	NJ00-0075-FC1
NA	NA	NA	NA
4.2	3.7	3.3	3.8
2.1 J	12	1.9 J	2.2
1.7 J	11	0.56 J	1.4
2.7 J	16	0.81 J	2.1
1.4 J	11	0.51 J	1.1
1.2 J	7.8	0.96 J	1.1
6.5	6.5	3 J	4.2
1.2 J	9.8	0.71 J	1.7
0.89 J	5.3	0.16 J	0.27
1.6 J	6.3	0.1 J	2
8.3	9.8	6.1	9.2
ND	1.9 J	ND	
1 J	2.2 J	0.079 J	1.2
2.4 J	12	1.3 J	4.1
4.5	11	1.6 J	5.2
1 J	4.6	ND	0.77
1.9 J	6	0.68 J	2.4
0.99 J	6.2	0.29 J	0.58
0.16 J	2.8 J	0.045 J	0.048
0.4 J	4	ND	0.25
0.23 J	2.8 J	0.3 J	0.17
0.094 J	0.57 J	0.062 J	
0.63 J	3.3 J	0.88 J	0.42

	NJ00-0073-FC2		NJ00-0079-FC1		DE00-0047-FC2	
	5.43		3.16		4.89	
	3.3		3.3		3.3	
JB	1.4	JB	1.2	JB	1.9	JB
JB	0.97	J	0.63	JB	1.2	J
J	1.6	J	0.93	JB	2.1	J
J	0.5	J	0.55	J	0.82	J
J	0.51	J	1	J	1	J
J	2	J	1.4	J	2.3	J
J	0.86	J	1.7	J	0.95	J
J	0.52	J	1.1	J	3.1	J

J	0.76	J	1.6	J	0.78	J	
J	4		3.8		3.3		
ND		ND		ND		ND	
J	0.36	J	0.66	J	0.43	J	
J	1.2	J	2.8	J	1	JB	
J	1.6	J	2.4	J	1.4	J	
ND		ND		ND		ND	
ND		ND		ND		ND	
J	0.22	J	0.12	J	0.29	J	
J	0.1	J	0.12	J	0.54	J	
ND		ND		ND		ND	
ND		ND	0.092	J	0.15	J	
ND		ND		ND		ND	
JB	0.16	JB	0.31	JB	0.55	JB	

	NJ00-0073-FC2-ROF		NJ00-0079-FC1-ROF		DE00-0047-FC2-ROF		
	13.2		12		11.9		
	4		3.9		4.3		
J	3.4	J	3.2	J	3.6	J	
J	2.2	J	2.3	J	3.1	J	
J	3.9	J	3.1	J	5.2		
J	1.7	J	2.2	J	3	J	
J	1.4	J	3.1	J	2.9	J	
	5.8		9.6		7.4		
J	1.7	J	6.6		2.1	J	
ND	1.4	J	3.5	J	6.6		
J	2.2	J	5.1		1.8	J	
	10		18		9.1		
ND		ND		ND		ND	
J	0.93	J	2.2	J	1.1	J	
	7.3		9.3		2.5	J	
	7.8		8		3.4	J	
J	2.8	J	0.94	J		ND	
J	3.8	J	3.4	J	2.1	J	
J	2.8	J	0.38	J	1	J	
ND	1.1	J		ND		ND	
J	1.8	J		ND	0.5	J	
J	1.2	J	0.29	J	0.43	J	
ND	0.22	J	0.13	J	0.13	J	
JB	1.3	JB	0.67	JB	0.83	JB	

	NJ00-0073-FC2		NJ00-0079-FC1		DE00-0047-FC2	
	NA		NA		NA	
	3.8		3.7		4.1	
J	3	J	2.6	J	3.2	J
J	1.9	J	1.8	J	2.7	J
J	3.4	J	2.5	J	4.5	
J	1.4	J	1.7	J	2.5	J
J	1.2	J	2.5	J	2.5	J
	5		7.3		6.3	
J	1.5	J	5.2		1.8	J
J	1.2	J	2.8	J	5.8	
J	1.9	J	4.1		1.6	J
	8.7		14		7.9	
ND		ND		ND		ND
J	0.8	J	1.8	J	0.96	J
	6		7.4		2.2	J
	6.4		6.4		3	J
J	2.2	J	0.67	J		ND
J	3	J	2.4	J	1.6	J
J	2.2	J	0.3	J	0.85	J
J	0.88	J	0.034	J	0.11	J
J	1.4	J		ND	0.39	J
J	0.93	J	0.23	J	0.37	J
ND	0.17	J	0.093	J	0.1	J
J	1	J	0.57	J	0.77	J

A. Methods

Sampling procedures are described in the document, "Coastal 2000 Field Operations Manual." This ma
the U.S. EPA's Environmental Monitoring and Assessment Program (EMAP) home page, http://www.ep
home page, click on "Components" in the left hand light blue border. Then click on the "EMAP National
icon in the upper right hand quadrant. Next, click on "Documents" in the left hand dark blue banner. Us
to select "Coastal 2000 Field Operations Manual."

Chemical analyses were performed by Arthur D. Little under contract with the U.S. Environmental Prote
other items, the contract included the analysis of 20 specific PCB congeners. The Delaware River Basi
with Arthur D. Little to analyze an expanded list of PCB congeners on the same samples.

Laboratory methods that were used are as follows:
Metals other than mercury were analyzed using EPA Method 200.8, Inductively Coupled Plasma/Mass S
Mercury was analyzed using EPA Method 245.5, Cold Vapor Atomic Absorption (CVAA).
Organochlorine pesticides were analyzed using EPA Method 8081, Mass Chromotography/Electron Cap
PCB congeners were analyzed using EPA Method 680, Gas Chromotography/Mass Spectrometry in Se
PAHs were analyzed using EPA Method 8270, Gas Chromotography/Mass Spectrometry in Selected Io

B. Quality Assurance

The Quality Assurance Project Plan for this monitoring project can be accessed at the EMAP site listed
procedure as listed above, except select "Coastal 2000 QA Project Plan" from the drop down menu unc

Extensive quality assurance data were generated for this project. Those data are not reported here but
contacting the U.S. EPA or the Delaware River Basin Commission.