1999 ROUTINE MONITORING FISH TISSUE RESULTS - halogenated compounds

DAN RIVER AND TRIBUTARIES

Sampling Date	Rivermile	Stream name/location/description	Fish species name	No. of fish analyzed	Length (cm)	Weight (g)	% Water	% Lipid	(ppb) [1] Total PCB	Total Chlordane	Total DDT	Total BDE [2]	HCB [3]	Heptachlor epoxide	gamma BHC [4]	Total BHC [4]	Hepta~ chlor	anisole 5Cl [5]	Mirex	Endrin
					DEQ SCREENING VALUES (ppb)			>>>>>>>>	50	300	300	NA	70	10	3000	20	20	NA	2000	3000
10/28/99	4ABAN008.30	Banister River near Rt. 614	Mixed Sunfish species	11	12 - 15.5	24 - 70	79.2	0.77	**3.60**	1.72	1.85	9.37		0.12						
10/28/99	4ABAN008.30	Banister River near Rt. 614	Channel Catfish	5	38 - 50.5	446 - 1148	78.6	2.17	**43.6**	2.99	15.0	4.71		0.14						
10/28/99	4ABAN008.30	Banister River near Rt. 614	Redhorse Sucker	2	33 - 44	384 - 1002	79.0	1.28	**10.3**	4.15	4.22	22.7		0.10						
08/31/99	4ABAN012.46	Banister Lake near Dam	Largemouth Bass	2	32.5 - 37	316.8 - 585	78.5	0.55	**3.76**	0.51	3.98	0.50								
08/31/99	4ABAN012.46	Banister Lake near Dam	Bluegill	10	11.5 - 16.5	22 - 87	80.1	0.48	**2.11**	0.80	1.10			0.24		0.05				
08/31/99	4ABAN012.46	Banister Lake near Dam	Crappie (White)	8	20 - 30.5	84 - 354	79.8	0.41	**1.60**	0.24	1.63									
08/31/99	4ABAN012.46	Banister Lake near Dam	Carp	6	41 - 58	947 - 2770	77.3	2.36	**7.40**	3.11	17.1	0.75	0.08	0.07				0.10		
07/13/99	4ACRR000.80	Cherrystone Creek near Chatham	Mixed Sunfish species	6	11 - 15	21.8 - 67.8	79.5	0.70	**3.65**	0.51	0.77	2.18		0.27						
07/13/99	4ACRR000.80	Cherrystone Creek near Chatham	Bullhead Catfish species	2	22.5 - 30	124.9 - 318.2	65.7	0.90	**3.05**		1.15	2.33		0.29						
07/13/99	4ACRR000.80	Cherrystone Creek near Chatham	Sucker species	4	24.5 - 34.5	142.8 - 341.2	79.9	0.76	**1.74**	0.38	0.41	0.72								
09/21/99	4ADAN015.30	Dan River, South Boston near 501 Bridge	Bluegill	10	13 - 18	40 - 138	80.0	0.54	**10.7**	1.16	2.82	0.67		0.09						
09/21/99	4ADAN015.30	Dan River, South Boston near 501 Bridge	Carp	5	51.5 - 70	1880 - 4315	77.9	1.88	**105**	7.00	31.3	15.2		0.09						
09/21/99	4ADAN015.30	Dan River, South Boston near 501 Bridge	Channel Catfish	5	42 - 63	550 - 2050	79.9	1.37	**89.3**	4.35	18.5	13.6								
09/01/99	4ADAN060.16	Dan River above Schoolfield Dam	Largemouth Bass	3	33 - 47	500 - 1550	78.6	0.99	**11.0**	3.82	8.53	6.47	0.06	0.38						
09/01/99	4ADAN060.16	Dan River above Schoolfield Dam	Redbreast Sunfish	10	12 - 17.5	31 - 106	79.9	0.66	**3.46**	1.41	1.85	1.55		0.37						
09/01/99	4ADAN060.16	Dan River above Schoolfield Dam	Gizzard Shad	4	31 - 36	326 - 492	75.2	4.74	**43.8**	26.2	22.1	13.5	0.16	0.79			0.09			
09/01/99	4ADAN060.16	Dan River above Schoolfield Dam	Redhorse Sucker	7	30 - 38.5	340 - 670	78.6	1.46	**5.94**	2.37	4.08	4.11		0.19		0.10				
09/02/99	4AHYC002.70	Hyco River near Rt. 58	Redear Sunfish	10	14.5 - 20	49.5 - 122	79.2	0.48	**2.03**	0.22	0.90	14.1								
09/02/99	4AHYC002.70	Hyco River near Rt. 58	Gizzard Shad	5	23 - 29	109 - 219	79.2	1.25	**38.4**	1.50	6.27	119		0.18						
09/02/99	4AHYC002.70	Hyco River near Rt. 58	Redhorse Sucker	7	34.5 - 40.5	440 - 690	79.4	1.02	**5.39**	0.78	2.54	105								
09/02/99	4AHYC002.70	Hyco River near Rt. 58	Largemouth Bass	5	32.5 - 45	480 - 1310	78.4	1.05	**20.3**	1.57	11.3	155		0.38						
09/02/99	4AHYC002.70	Hyco River near Rt. 58	Carp	5	49 - 65	1150 - 3950	76.8	2.39	**36.0**	3.63	18.3	1364	0.04	0.53						
08/25/99	4ALSN001.04	Lawsons Creek at Riverdale near Rt. 58	Bluegill	11	11 - 15	23.1 - 55.4	79.3	0.57	**5.03**	0.41	1.21	0.20		0.21						
08/25/99	4ALSN001.04	Lawsons Creek at Riverdale near Rt. 58	Green Sunfish	10	10 - 14	16 - 50	79.5	0.56	**3.17**	0.12	0.44									
07/15/99	4ANMR002.60	North Fork Mayo River near Rt.629	Smallmouth Bass	1	33	457.5	77.5	0.80	**ND**		0.40	0.23								
07/15/99	4ANMR002.60	North Fork Mayo River near Rt.629	Redbreast Sunfish	2	15.5 - 20	72.3 - 163.4	80.5	0.50	**0.68**	0.36	0.77	0.23								
07/15/99	4ANMR002.60	North Fork Mayo River near Rt.629	Sucker species	2	15.5 - 21.5	46.9 - 113.1	80.3	0.70	**0.96**											
08/24/99	4ARAC001.20	Reedy Creek in South Boston	Bluegill	12	12 - 16	27.5 - 88.6	79.8	0.78	**17.4**	4.04	0.93	0.55		1.04						
08/24/99	4ARAC001.20	Reedy Creek in South Boston	Bluehead Chub	10	11.5 - 17	16.3 - 50.4	80.1	0.71	**6.61**	8.69	1.19	1.34		0.39						
07/15/99	4ASMR004.17	South Fork Mayo River near Rt. 695	Redbreast Sunfish	10	13.5 - 16.5	42.1 - 82.9	80.3	0.41	**1.51**	0.29	1.99	0.64								
07/15/99	4ASMR004.17	South Fork Mayo River near Rt. 695	Redhorse Sucker	8	21 - 29.5	97.6 - 188.6	79.5	1.47	**ND**		0.54									

[1] ppb denotes concentration in parts per billion (wet weight basis in edible fillet)
[2] BDE denotes brominated diphenyl ethers
[3] HCB denotes hexachlorobenzene
[4] BHC denotes benzene hexachloride also known as hexachlorocyclohexane - HCH
[5] anisole, 5CL denotes pentachloroanisole

NA denotes not available, insufficient toxicological information available for this chemical to calculate a screening value

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Sampling Date	Rivermile	Stream name/location/description	Fish species name	No. of fish analyzed	Length (cm)	Weight (g)	% Water	% Lipid	(ppb) [1] Total PCB	Total Chlordane	Total DDT	Total BDE [2]	HCB [3]	Heptachlor epoxide	gamma BHC [4]	Total BHC [4]	Hepta~ chlor	anisole 5Cl [5]	Mirex	Endrin
					DEQ SCREENING VALUES (ppb)			>>>>>>>>	50	300	300	NA	70	10	3000	20	20	NA	2000	3000
08/18/99	4ASRE019.00	Smith River 3.5 mi. downstream of Martinsville	Redbreast Sunfish	5	13.5 - 18	48 - 115	79.9	0.57	**4.63**	1.52	0.61	1.99		0.28						
08/18/99	4ASRE019.00	Smith River 3.5 mi. downstream of Martinsville	Sucker species	10	31 - 40	350 - 790	78.9	1.28	**10.2**	3.89	0.88	6.73	0.10	0.43						
08/18/99	4ASRE019.00	Smith River 3.5 mi. downstream of Martinsville	Roanoke Hogsucker	5	24 - 35	180 - 600	79.6	0.76	**5.90**	1.85	0.59	3.72		0.15						
09/08/99	4ASRE046.90	Philpott Reservoir, Lower Lake	Largemouth Bass	6	28.5 - 44	300 - 1150	77.9	0.82	**9.48**	1.50	2.71	2.99								
09/08/99	4ASRE046.90	Philpott Reservoir, Lower Lake	Carp	8	44 - 51	970 - 1405	78.0	2.10	**19.6**	4.76	12.7	3.02		0.07						
09/08/99	4ASRE046.90	Philpott Reservoir, Lower Lake	Catfish species	4	27.5 - 34.5	171 - 369	81.6	0.65	**2.40**	0.95	1.14	0.32								
09/07/99	4ASRE055.62	Philpott Reservoir, Upper Lake	Largemouth Bass	2	48 - 52.5	1690 - 2320	77.1	1.29	**6.06**	1.84	2.50	0.30		0.06						
09/07/99	4ASRE055.62	Philpott Reservoir, Upper Lake	Bluegill	6	10.5 - 20	19 - 138	79.4	0.46	**2.50**	0.28	0.61	8.42		0.37						
09/07/99	4ASRE055.62	Philpott Reservoir, Upper Lake	Carp	8	40.5 - 53.5	720 - 1690	79.4	1.22	**8.21**	1.66	2.49	2.44								
09/07/99	4ASRE055.62	Philpott Reservoir, Upper Lake	Gizzard Shad	3	23 - 27.5	109 - 216	78.3	1.98	**8.60**	1.94	1.98	3.39	0.09							
08/18/99	4ASRE026.27	Smith River downstream of Martinsville Dam	Brown Trout	9	26 - 34	350 - 510	75.8	2.36	**30.5**	6.85	3.52	14.6	0.09	1.49						
08/18/99	4ASRE026.27	Smith River downstream of Martinsville Dam	Bluegill	8	10 - 16	17 - 88	79.4	0.94	**9.18**	2.16	0.76	3.88		0.62						
08/18/99	4ASRE026.27	Smith River downstream of Martinsville Dam	Chub	5	20.5 - 26.5	114 - 196	79.8	0.73	**10.7**	4.17	1.32	3.73		0.30						
08/18/99	4ASRE026.27	Smith River downstream of Martinsville Dam	White Sucker	7	31 - 38	470 - 750	78.8	1.37	**6.38**	2.63	0.83	3.12		0.31						
3/31-5/7/99	4ADAN013.34	Dan River, downstream of South Boston	Bluegill	5	15 - 19	80 - 200	80.2	0.73	**10.1**	1.41	2.85	3.61		0.10						
3/31-5/7/99	4ADAN013.34	Dan River, downstream of South Boston	Redhorse Sucker	5	43 - 50	950 - 1550	79.6	1.71	**27.5**	3.23	11.5	8.66		0.11						
3/31-5/7/99	4ADAN013.34	Dan River, downstream of South Boston	Channel Catfish	6	48 - 53	900 - 1550	79.2	2.09	**86.7**	6.75	24.7	12.4		0.38				0.13		
3/31-5/7/99	4ADAN013.34	Dan River, downstream of South Boston	Flathead Catfish	6	64 - 74	2600 - 4250	76.7	6.19	**416**	41.7	96.3	65.9	0.56	12.8				0.40		

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