

Peconic River Monitoring and Prescribed Fire

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BROOKHAVEN
NATIONAL LABORATORY

a passion for discovery



2013 Peconic River Monitoring – preliminary data

- 3 sediment samples all under 2.0 mg/kg for mercury
- Water column sampling similar to past data for both mercury and methyl mercury.
- Fish – onsite values higher than anticipated

Peconic River Fish Mercury Concentrations by Fish Location - 2013				
Fish Collection Area	Number of Mercury Samples	Average Mercury Concentration (mg/kg)	Minimum Mercury Concentration (mg/kg)	Maximum Mercury Concentration (mg/kg)
All Fish Samples (Area A to Donahue's Pond)	37	0.691	0.0502	4.08
AREA A	9	0.834	0.0948	1.49
AREA D - Upstream of HQ	12	1.131	0.0502	4.08
SCHULTZ ROAD	6	0.365	0.0736	0.68
DONAHUE'S POND	10	0.231	0.0639	0.478

2013 Peconic River Fish Samples

Mercury

Area	Fish ID or Composite ID	Species	Length (mm)	Wet Weight Whole (grams)	Wet Weight Fillet (grams)	Age (yrs)	Sample Date	Conc. (mg/kg)	MDL (mg/kg)	Lab Qual ¹
A	13-001	Bass	380	840	237.7	6	4/10/2013	1.27	0.0396	E
A	13-002	Bass	380	850	237	4	4/10/2013	1.07	0.00801	E
A	33156-bc3	Bass	310	882	288.2	3.5	4/10/2013	1.13	0.0378	E
A	33156-bc4	Largemouth Bass	253	918	280.2	2.8	4/10/2013	0.553	0.039	E
A	33156-bc5	Chain Pickerel	394	646	232.3	4	4/10/2013	1.49	0.0402	E
A	13-011	Chain Pickerel	307	138	52.6	5	4/10/2013	0.818	0.0368	E
A	33156-bc7	Pumpkinseed	175	494	141.4	4.5	4/10/2013	0.803	0.04	E
A	33156-bc8	Brown Bullhead	254	958	219.8	3.5	4/10/2013	0.277	0.0376	E
A	33156-bc9	Brown Bullhead	222	996	211.5	3.8	4/10/2013	0.0948	0.00374	E
D	13-026	Bass	460	1802	513	7	4/12/2013	2.47	0.0696	
D	13-027	Largemouth Bass	337	590	191.9	7	4/12/2013	0.767	0.0394	
D	13-028	Chain Pickerel	550	932	287.2	3	4/12/2013	1.63	0.0753	
D	13-029	Chain Pickerel	594	784	188.5	7	4/12/2013	4.08	0.072	
D	33159-bc5	Black Crappie	217	366	119.7	3	4/12/2013	0.546	0.0392	
D	33159-bc6	Brown Bullhead	325	1248	248.4	7.3	4/12/2013	0.111	0.00366	
D	33159-bc7	Brown Bullhead	338	1062	222.3	6	4/12/2013	0.171	0.00369	
D	33159-bc8	Brown Bullhead	266	492	98.5	3	4/12/2013	0.0502	0.00365	
D	13-041	Bass	426	1286	338.4	6	4/16/2013	1.12	0.0388	*
D	13-042	Bass	385	820	262.5	6	4/16/2013	1.16	0.0397	*
D	13-043	Chain Pickerel	535	870	302.8	5	4/16/2013	1.3	0.04	*
D	33173-bc4	Brown Bullhead	338	1008	225.7	7	4/16/2013	0.163	0.00358	*
SR	13-046	Largemouth Bass	334	492	123	6	4/25/2013	0.68	0.0793	
SR	13-047	Largemouth Bass	332	464	142.2	6	4/25/2013	0.531	0.0747	
SR	13-048	Largemouth Bass	317	488	150.6	4	4/25/2013	0.076	0.076	U
SR	13-049	Largemouth Bass	311	376	115.5	6	4/25/2013	0.558	0.0804	
SR	13-050	Largemouth Bass	307	382	117.1	5	4/25/2013	0.272	0.0743	
SR	13-051	Largemouth Bass	291	324	98.2	3	4/25/2013	0.0736	0.0736	U
DP	13-057	Largemouth Bass	305	460	168.3	6	6/24/2013	0.405	0.04	N
DP	13-058	Largemouth Bass	316	436	161.9	6	6/24/2013	0.313	0.035	N
DP	13-059	Largemouth Bass	280	296	110.6	7	6/24/2013	0.478	0.0393	N
DP	13-060	Largemouth Bass	253	216	85.5	3	6/24/2013	0.263	0.0369	N
DP	13-061	Black Crappie	230	186	81.1	3	6/24/2013	0.142	0.039	N
DP	13-062	Brown Bullhead	302	414	137.8	5	6/24/2013	0.0639	0.00749	N
DP	13-063	Brown Bullhead	310	446	123.4	9	6/24/2013	0.104	0.00784	N
DP	13-064	Brown Bullhead	297	440	136.9	7	6/24/2013	0.229	0.0385	N
DP	13-065	Brown Bullhead	305	434	132	8	6/24/2013	0.142	0.0351	N
DP	13-066	Brown Bullhead	314	414	113.9	8	6/24/2013	0.173	0.0348	N

1

* - Indicates that the duplicate analysis is not within control limits.

B - Indicates that the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

E - Used when the reported value is estimated because of the presence of interference.

N - Indicates that the spiked sample recovery is not within control limits.

U - Indicates that the analyte was analyzed for but not detected.

Prescribed Fire(s) – Sept. 2013

