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CONFIDENTIAL

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TO:	Hudson River Team
FROM:	Trina von Stackelberg
SUBJECT:	Background Concentrations for Fish at River Miles 201 - 216

This memorandum summarizes the available data from NYSDEC on wet weight fish concentrations for selected years for the region above the upstream boundary condition, encompassing river miles 201 to 216. The following table provides the species, river mile, year. number of samples, mean, standard error on the mean, minimum and maximum concentrations. Concentrations were estimated following the Jon Butcher correction algorithm and thus represent the sum of different Aroclors together with a weighting factor to approximate Tri+ concentrations. Non-detects were set at half the detection limit.

Species	River Mile	Year	N	Mean	Std. Error	Minimum	Maximum
LMB	201	1983	1	0.07	•	0.07	0.07
LMB	202	1991	2	0.01	0.00	0.01	0.01
LMB	203	1992	12	0.20	0.03	0.06	0.41
BB	20 1	1983	2	0.16	0.07	0.09	0.23
BB	201	1991	12	0.03	0.01	0.01	0.07
BB	201	1992	15	0.15	0.02	0.03	0.29
BB	201	1993	18	0.33	0.02	0.20	0.61
BB	201	1995	1	0.11	•	0.11	0.11
BB	216	1986	21	0.73	0.08	0.43	1.76
BB	216	1987	14	0.21	0.11	0.07	1.63
YP	201	1991	12	0.06	0.01	0.01	0.10
YP	201	1992	18	0.20	0.05	0.03	0.84
YP	201	1993	19	0.24	0.03	0.11	0.55
YP	208	1995	20	0.13	0.02	0.02	0.30
YP	208	1996	31	0.22	0.04	0.01	0.72
YP	208	1997	5	0.04	0.03	0.01	0.14
WP	208	1996	9	0.22	0.07	0.09	0.76

Because these concentrations represent aroclor sums, it is difficult to determine which are non detect values and which not. Typically at least one aroclor in the sum was detected, while the other was set at half the detection limit. A more detailed data summary can be provided which explicitly calls out the original aroclors as measured in the NYSDEC data. This provides an indication of the Tri+ equivalent concentration in the standard fillet of these species. Note that whole body concentrations would be at least this high or higher. Based on data from other systems comparing the percent lipid of the whole body to the standard fillet, these concentrations

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could increase by 2 or 2.5 for largemouth bass, and 1.5 for brown bullhead. No information is available for white and yellow perch.

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