## CONFIDENTIAL

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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 represen. the sum of different Aroclors together with a weighting factor to approximate Mri+ concentrations. Non-detects were set at half the detection limit.

| Species | River <br> Mile | Year | N | Mean | Std. Error | Minimum | Maximum |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LB | 201 | 1983 | 1 | 0.07 | . | 0.07 | 0.07 |
| LB | 202 | 1991 | 2 | 0.01 | 0.00 | 0.01 | 0.01 |
| LM | 203 | 1992 | 12 | 0.20 | 0.03 | 0.06 | 0.41 |
| BB | 201 | 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 |
| MP | 201 | 1991 | 12 | 0.06 | 0.01 | 0.01 | 0.10 |
| YB | 201 | 1992 | 18 | 0.20 | 0.05 | 0.03 | 0.84 |
| YB | 201 | 1993 | 19 | 0.24 | 0.03 | 0.11 | 0.55 |
| XP | 208 | 1995 | 20 | 0.13 | 0.02 | 0.02 | 0.30 |
| MP | 208 | 1996 | 31 | 0.22 | 0.04 | 0.01 | 0.72 |
| MP | 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 Mri+ 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
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.

