

To: Helen Chernoff; Alison Hess; Doug Tomchuk; Trina Von Stackelburg; Claire Hunt
From: Ed Garvey
Subject: [REDACTED] Conversation with K. Farley-2nd attempt
CC: Hudson

[REDACTED]

Sorry about the first transmittal. My email program deleted the enclosed text.

2/22/01

I spoke with K Farley this afternoon about 2:30 pm concerning our use of his model. I explained the basic approach we had used in applying the model output to the FISHRAND calculations for the Lower Hudson (i.e., use of the top two segments). I also explained our concern with regard to the lack of change between the model results for the No Action and Preferred Alternative simulations. Lastly I explained our solution to the problem by using the uppermost model sediment layer (0-2 cm) for driving the FISHRAND calculations instead of the 0-2 and 2-4 cm layers.

He indicated that our experience with the model output was consistent with the model design. The model does not have a particle exchange process between the sediment layers. As a result, our original application of the model (using 0-2 and 2-4 cm layers) exposed the fish to a layer (2-4 cm) which he had assumed was largely isolated from interaction with the surface. Thus the Farley white perch calcs showed a response to the preferred alternative while the FISHRAND calcs as originally performed did not. Dr. Farley agreed with my assertion that our remedy to use only the 0-2 cm sediment layer for both the No Action and Preferred Alternative would yield the most representative forecasts for the Lower Hudson. In this fashion, both FISHRAND and the Farley model forecasts would respond in a similar manner. Additionally, the forecasts would both be dependent on the same sediment conditions. Lastly, Dr. Farley pointed out that the sediment layers are 2.5 cm thick, not 2 cm thick, according to his original report.

Ed

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