

2D Temperature Modeling

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Two-Dimensional Temperature Modeling of Gravel Pits in Reach 1A – Elaina Gordon – July 12, 2013

The temperature component of the 2D model has been completely coded, and the steady-state hydraulic model from Highway 41 to Sycamore Island has been calibrated. Current efforts are focusing on testing the temperature module to determine if the model is capable of predicting the interactions between the river and gravel pits. Recently acquired temperature data within the reach will be used to evaluate the model validity. If the model proves to be successful, its use in predicting changes in water temperature along the floodplain may also be investigated.

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