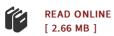




Development and Calibration of Two-Dimensional Hydrodynamic Model of the Tanana River Near Tok, Alaska: Usgs Open-File Report 2004-1225 (Paperback)

By Jeffrey S Conaway

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****** Print on Demand ******. Bathymetric and hydraulic data were collected by the U.S. Geological
Survey on the Tanana River in proximity to Alaska Department of Transportation and Public
Facilities bridge number 505 at mile 80.5 of the Alaska Highway. Data were collected from August 79, 2002, over an approximate 5,000- foot reach of the river. These data were combined with
topographic data provided by Alaska Department of Transportation and Public Facilities to
generate a two-dimensional hydrodynamic model. The hydrodynamic model was calibrated with
water-surface elevations, flow velocities, and flow directions collected at a discharge of 25,600 cubic
feet per second. The calibrated model was then used for a simulation of the 100-year recurrence
interval discharge of 51,900 cubic feet per second. The existing bridge piers were removed from the
model geometry in a second simulation to model the hydraulic conditions in the channel without
the piers influence. The water-surface elevations, flow velocities, and flow directions from these
simulations can be used to evaluate the influence of the piers on flow hydraulics and will assist the
Alaska Department of Transportation and Public Facilities in the design of a...



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