Earth Surface Processes and Landforms

Earth Surface Processes and Landforms

Supporting Material for

A Hydraulic Modelling Approach to Study Flood Sediment Depositions in Floodplain Lakes

Contents of this file

Figure S1-S5

Figure S1: Photo of sampling site E-TC at the downstream lake arm of Port of Liberty Lake.

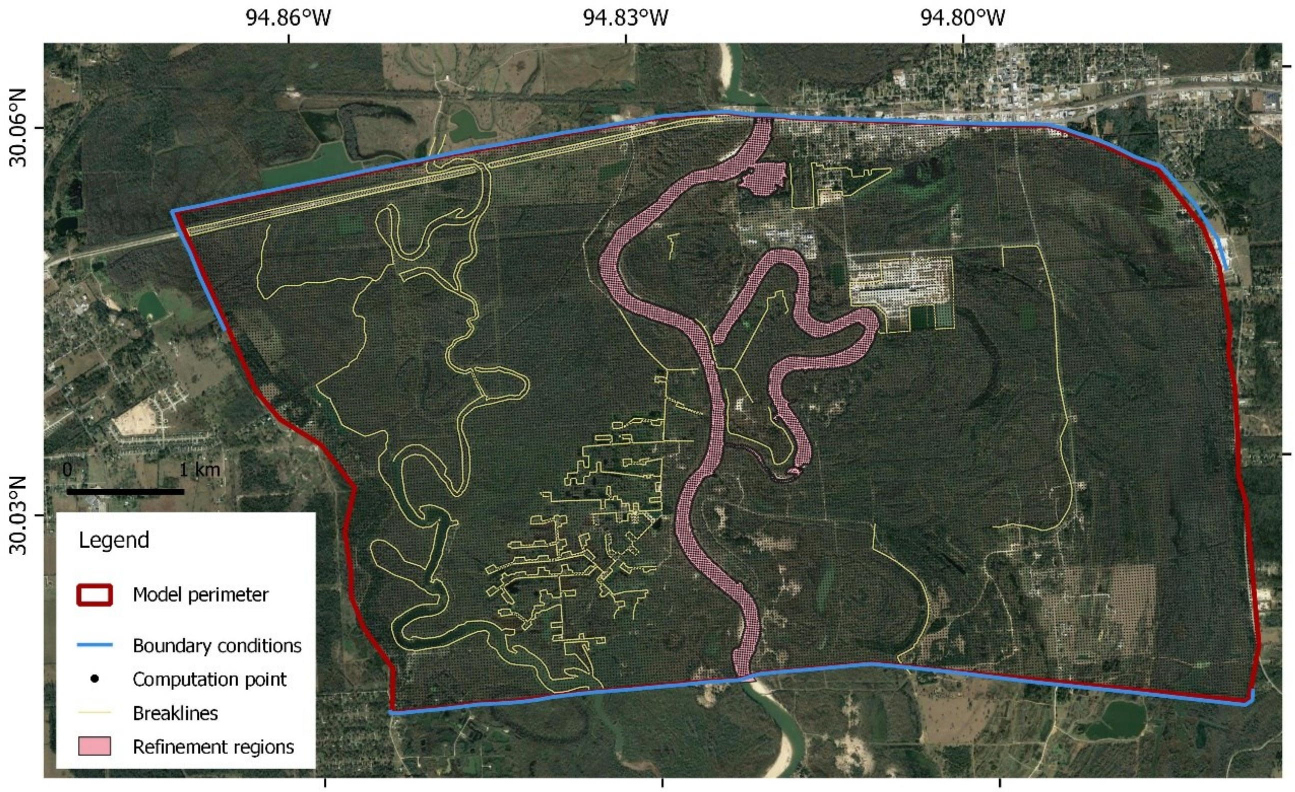

Figure S2: HEC-RAS RASMapper settings.

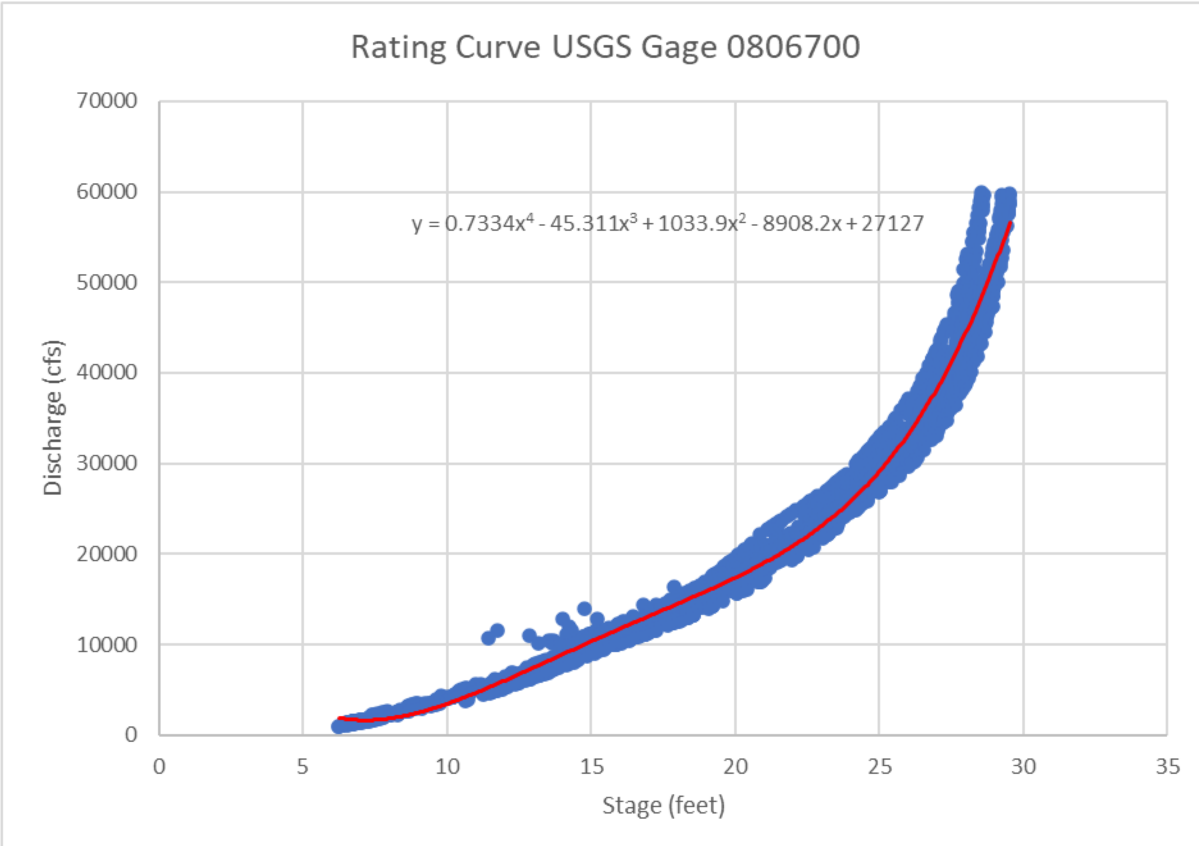

Figure S3: Rating curve of the USGS stream gage of the Trinity River at Liberty (0806700) for values below 60,000 cfs.

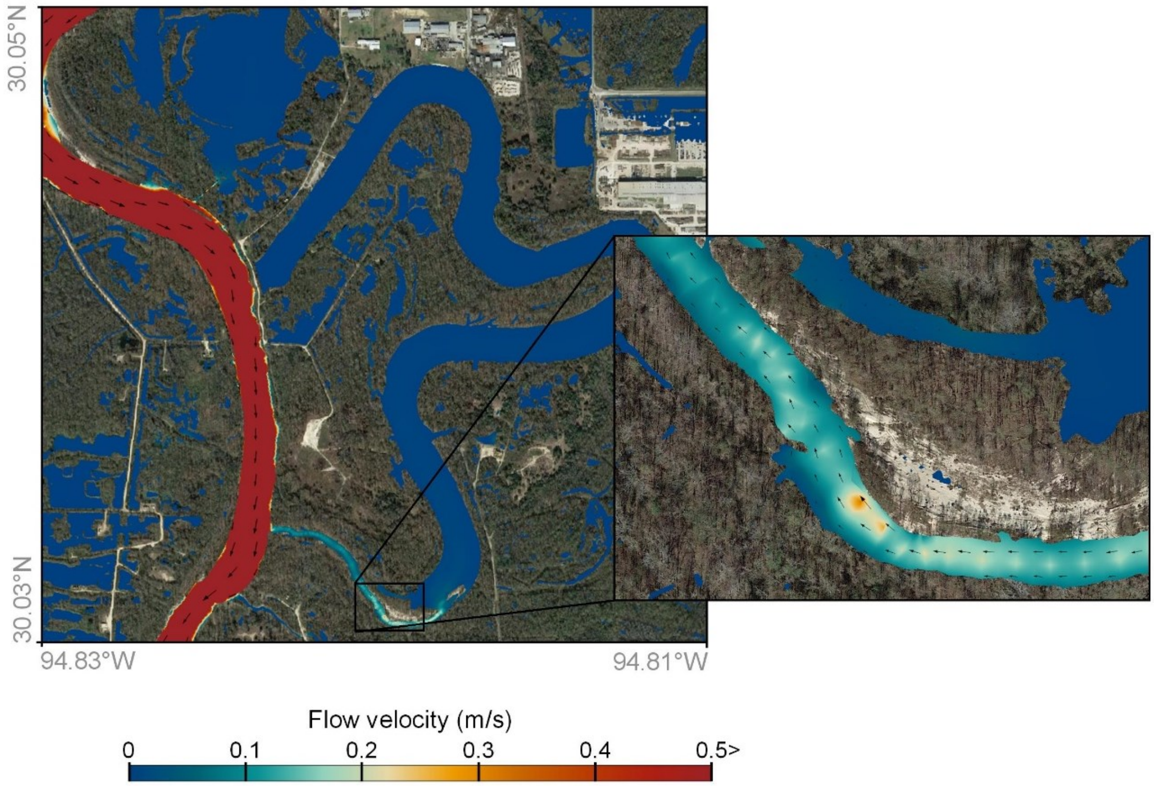

Figure S4: Simulated flow velocities and directions when floodwater recedes from the lake via the tie-channel back to the river on September 6, 2017 at 01:00 CST.

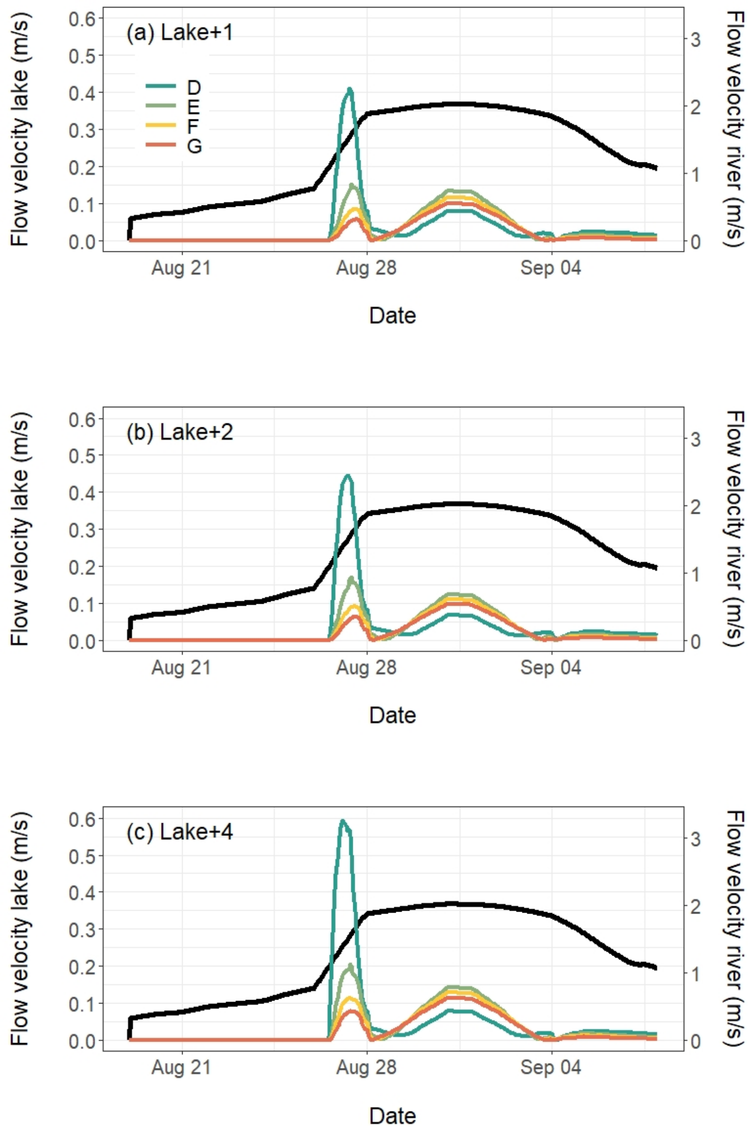

Figure S5: Flow velocities time-series from several points in the downstream lake arm for the three alternative lake bathymetry scenarios. Points D,E,F and G correspond to the locations in Figure 6. The black line indicates flow velocities in the center of the river at the height of the tie-channel.