



Figure S1: 1858 Martenet map showing historic mill dams (circled in yellow) along Gramies Run (previously known as Fulling Mill Run). The top dam is above the current Big Elk Chapel road while the lower dam is to the right of the current Gallagher road.



Figure S2: Partial construction/transition along Phase 2 showing restored (left) and unrestored (right) reaches. The junction represents a construction pause for the no-instream work period – March 1 to June 15. Note the height of the incised vertical bank and the buried organic horizon on the right, and the newly created wider floodplain on the left. White, Pleistocene era gravel can be seen below the dark organic horizon on the right.



Figure S3: Streambank at Gramies Run (along Phase II restoration, same reach as in Figure S2) showing freeze-thaw drool and subaerial erosion following freeze-thaw conditions in winter.

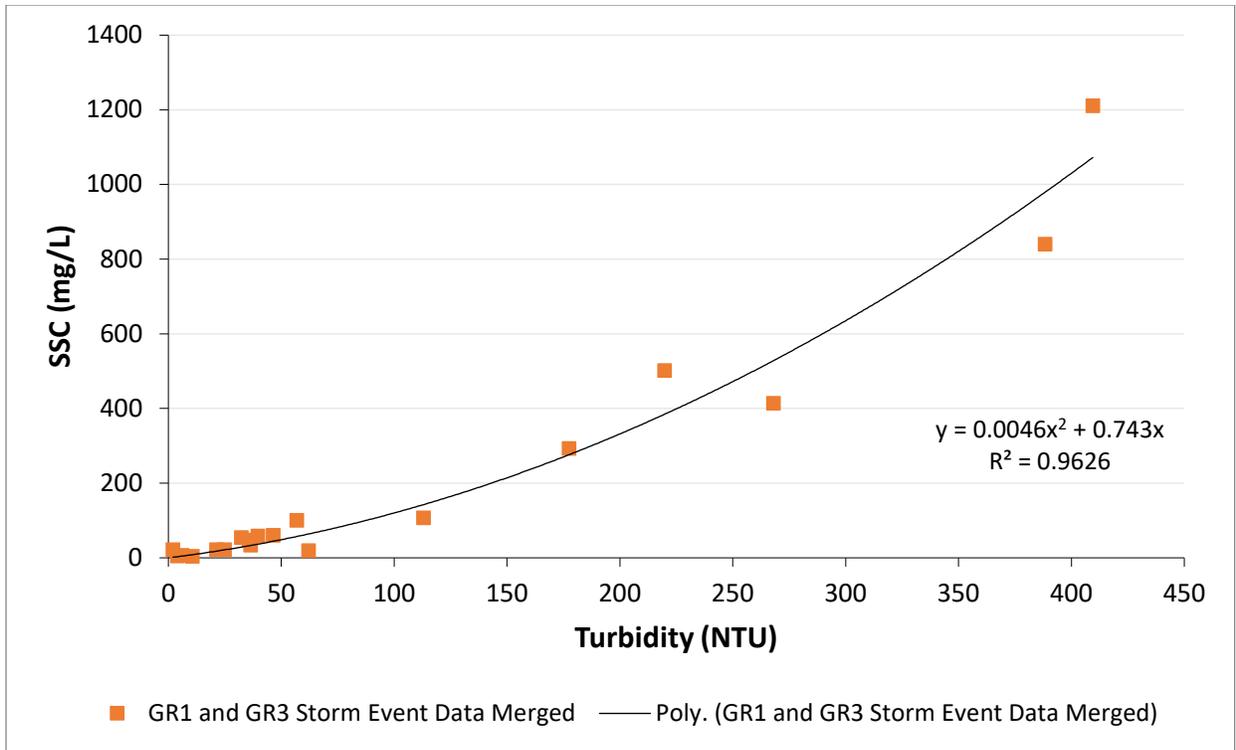


Figure S4: SSC-Turbidity relationship to convert turbidity values to SSC concentrations.