Flood Inundation Modeling
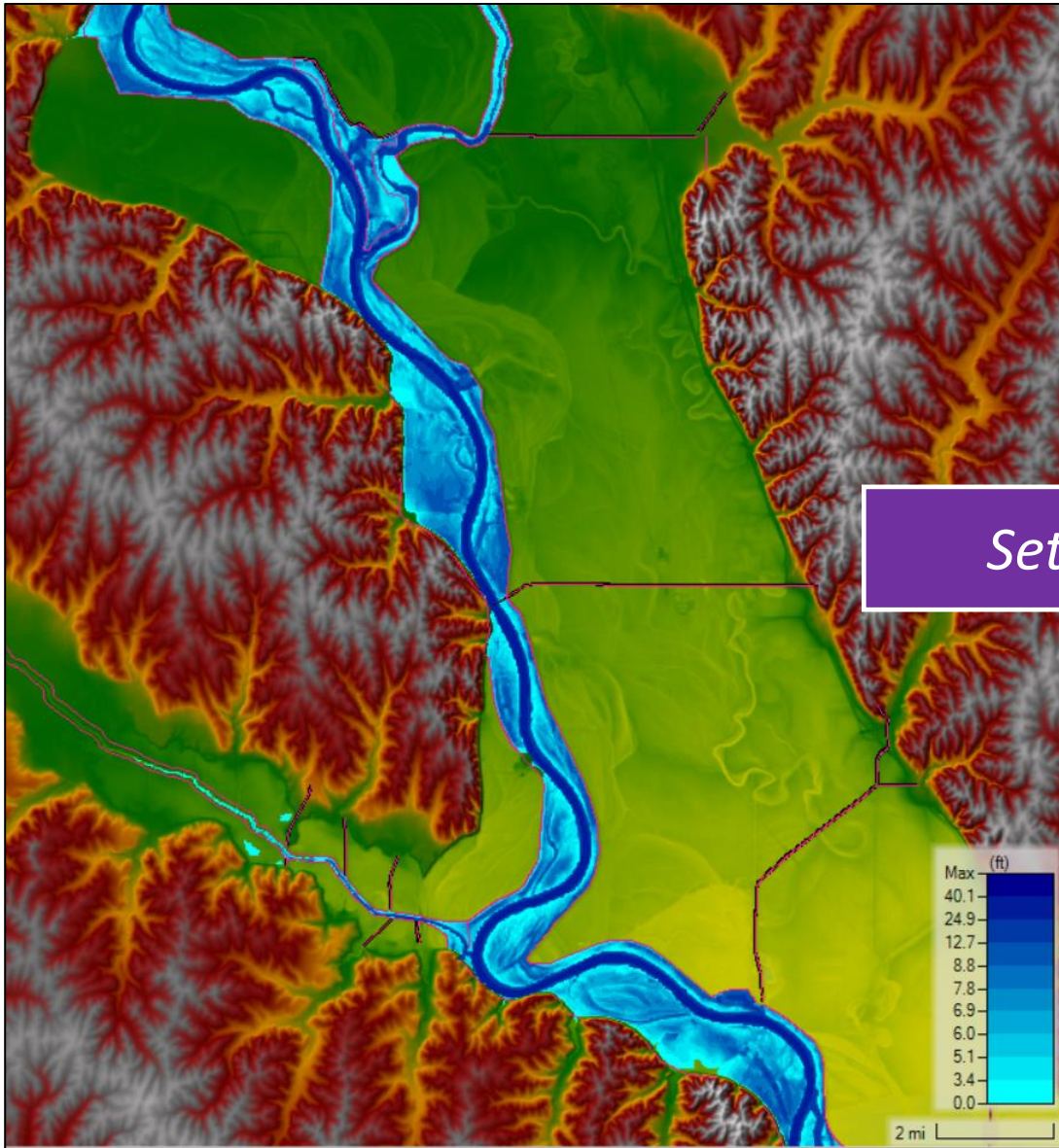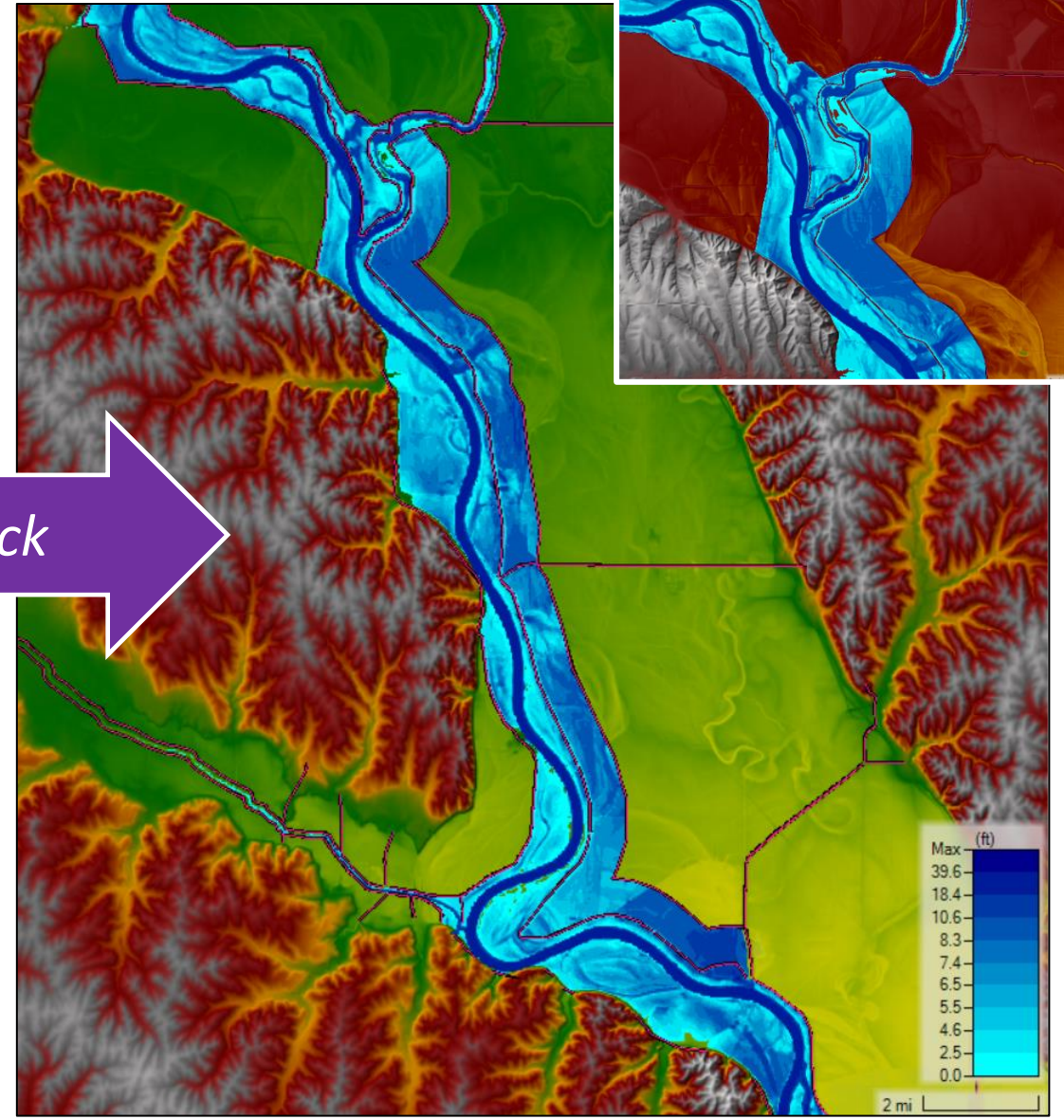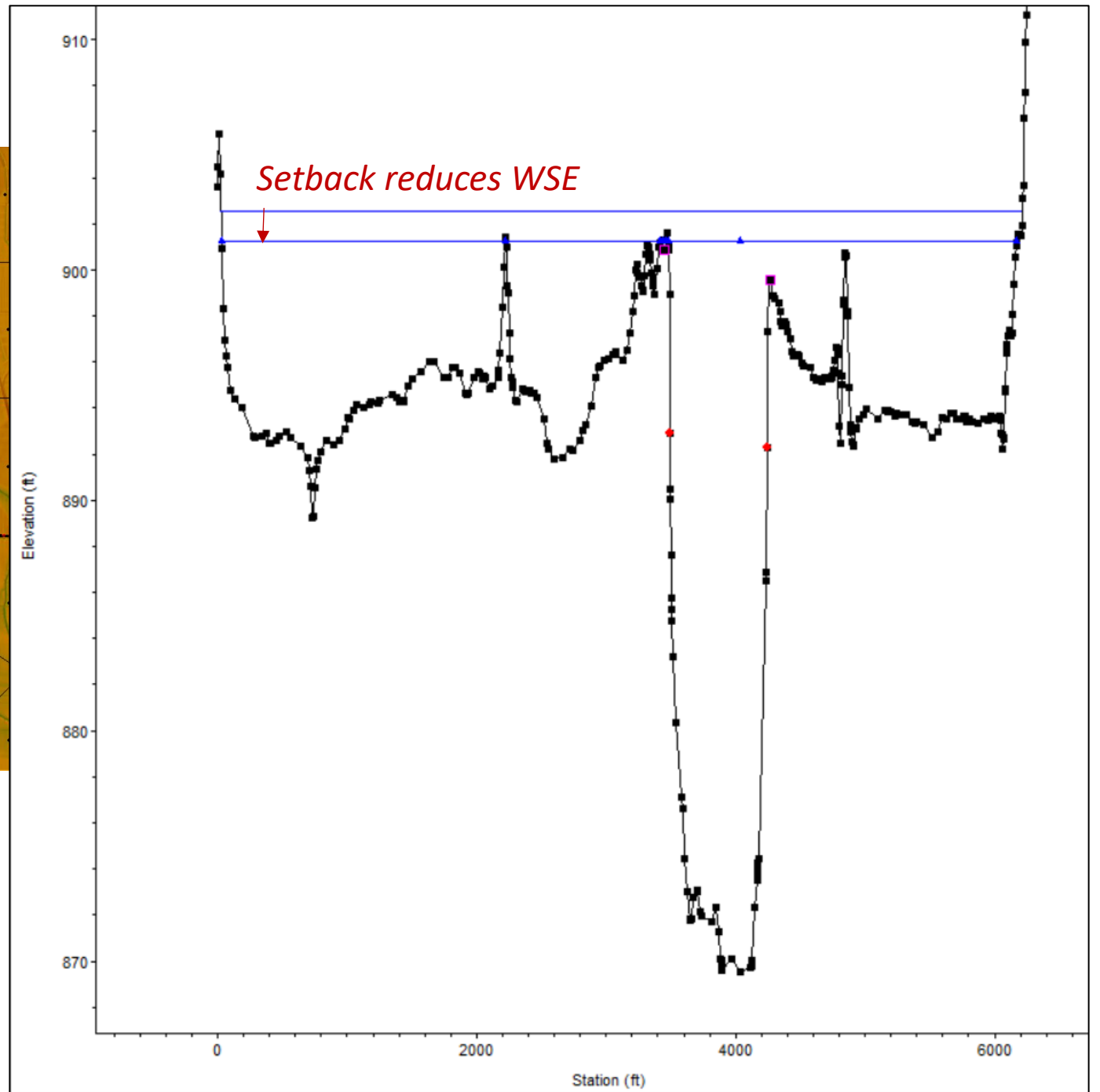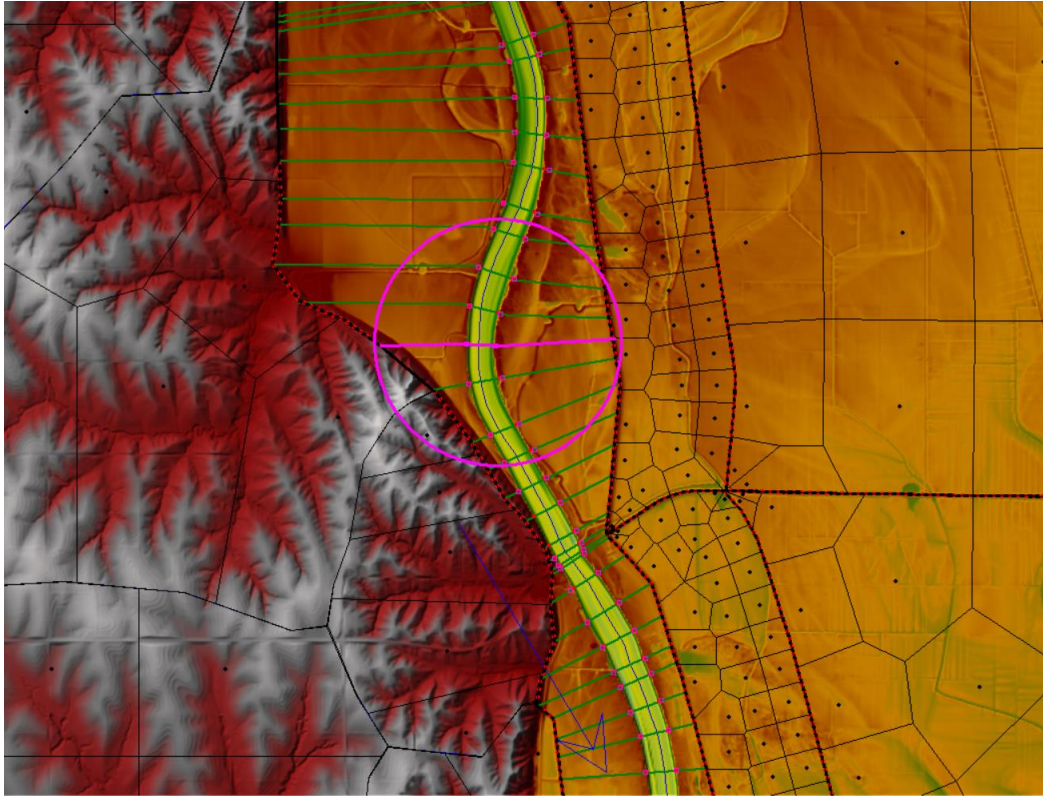
Channel Depth

Setback reduces WSE
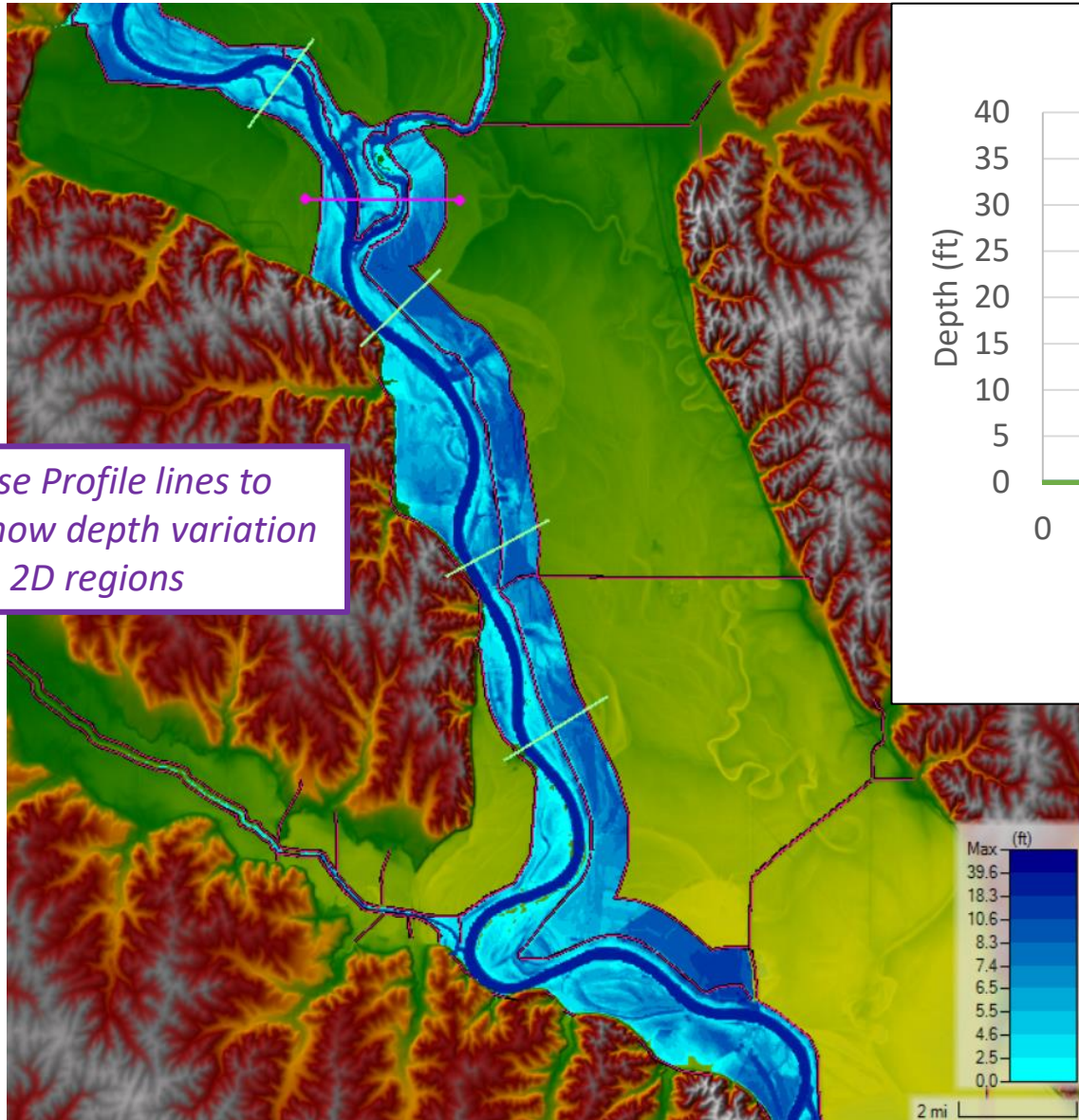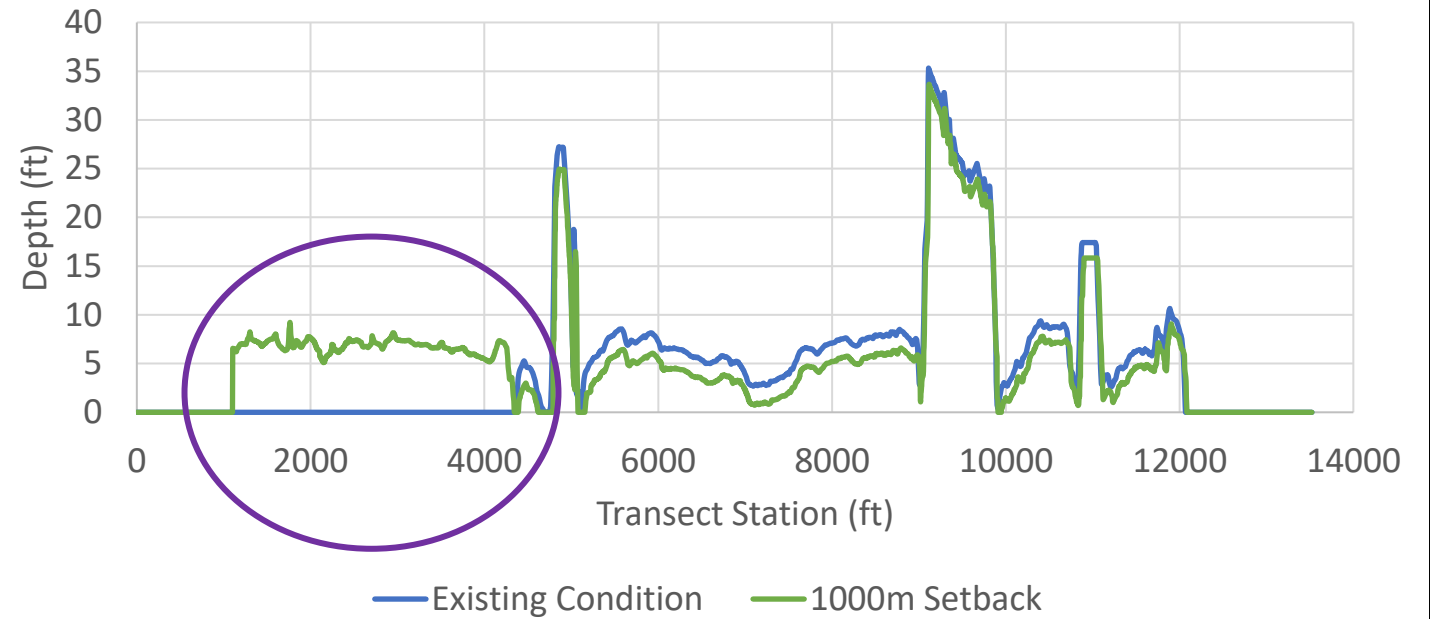
Novel setback modeling methods enables 2D floodplains and multiple benefit analysis (2D cell definitions tbd).
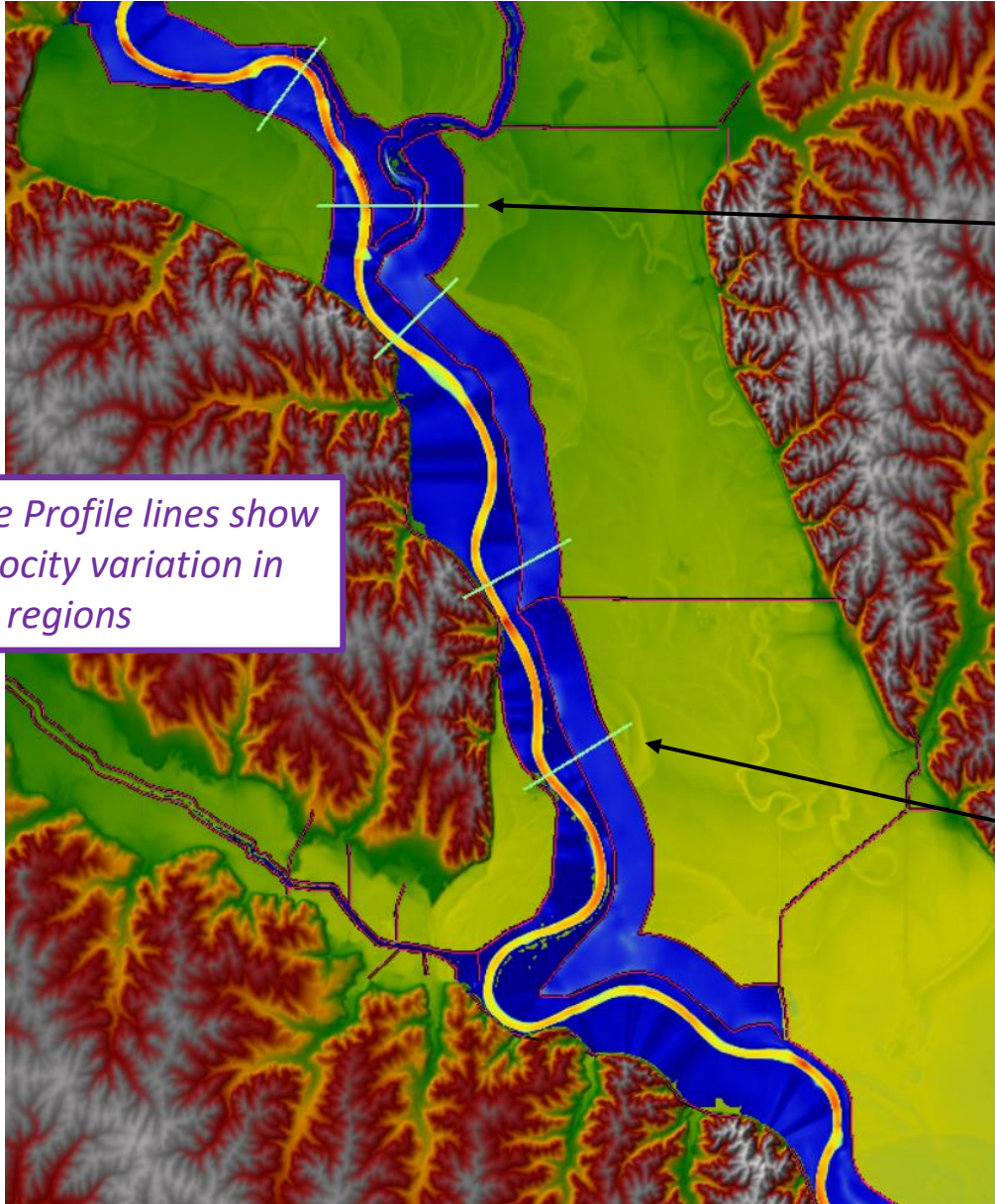
Floodplain Inundation

Use Profile lines to show depth variation in 2D regions

Depth Variation at Nishnabotna Confluence
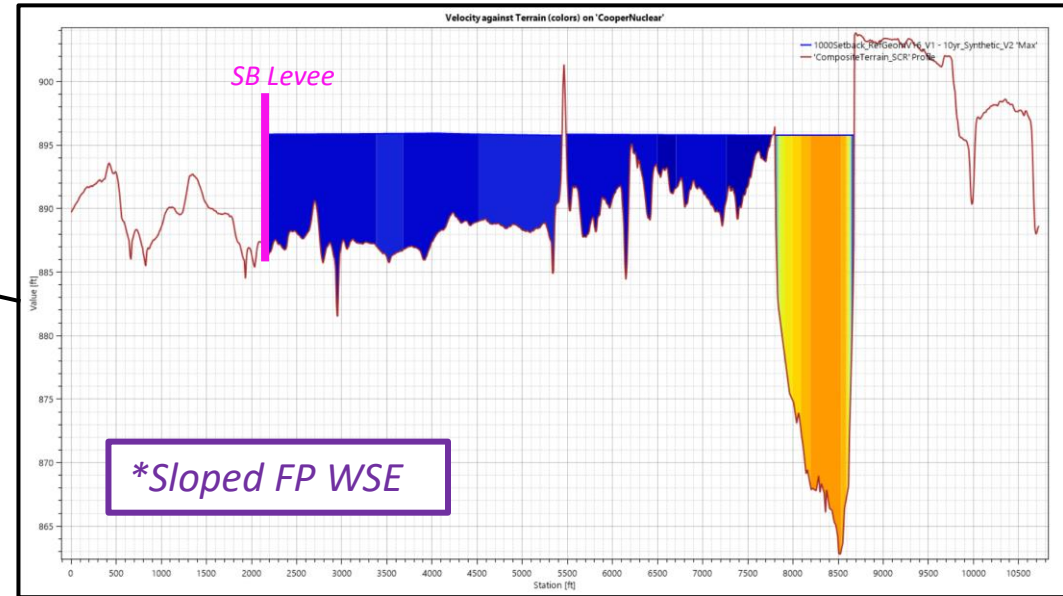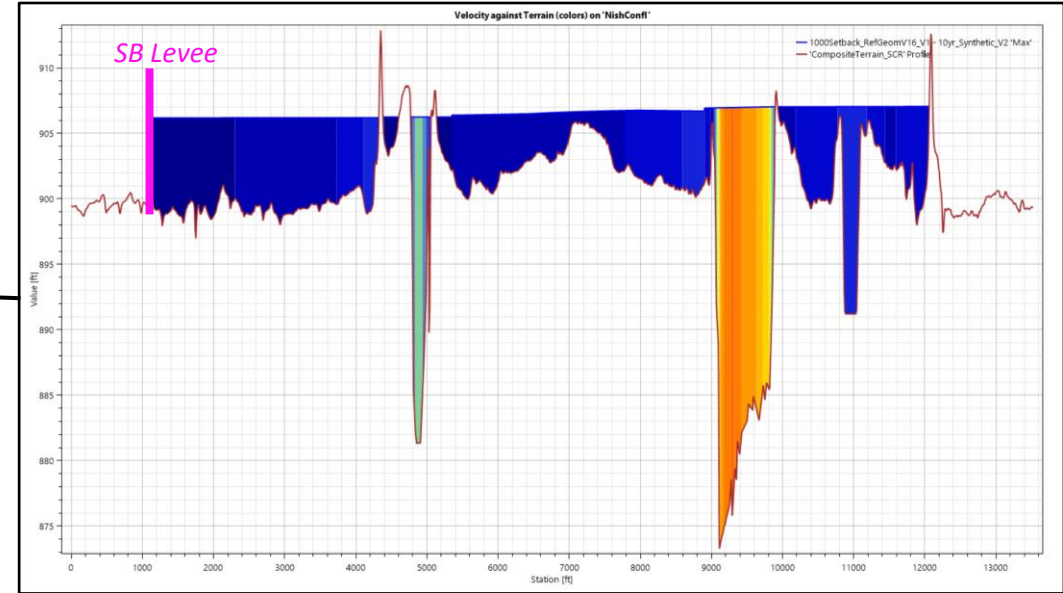
Existing Condition — 1000m Setback

Note reconnected area of floodplain
AND
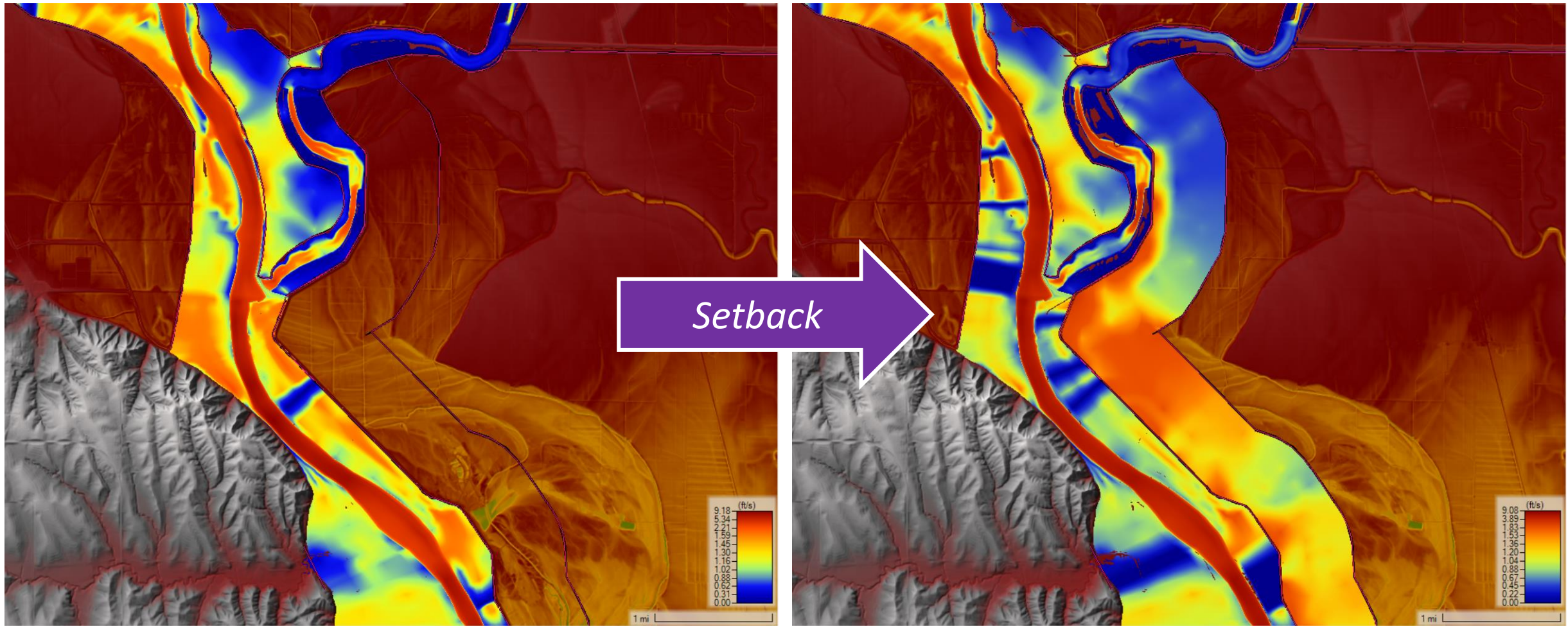Depth variation across 1D and 2D elements

Velocity Variation

Use Profile lines show velocity variation in 2D regions

Velocity Variation at Confluences

The setback creates velocity variation throughout the flow area.