



# Sonoma Water

Clean. Reliable. Essential. Every Day.

## Sonoma Valley Hydrologic and Hydraulic Modeling

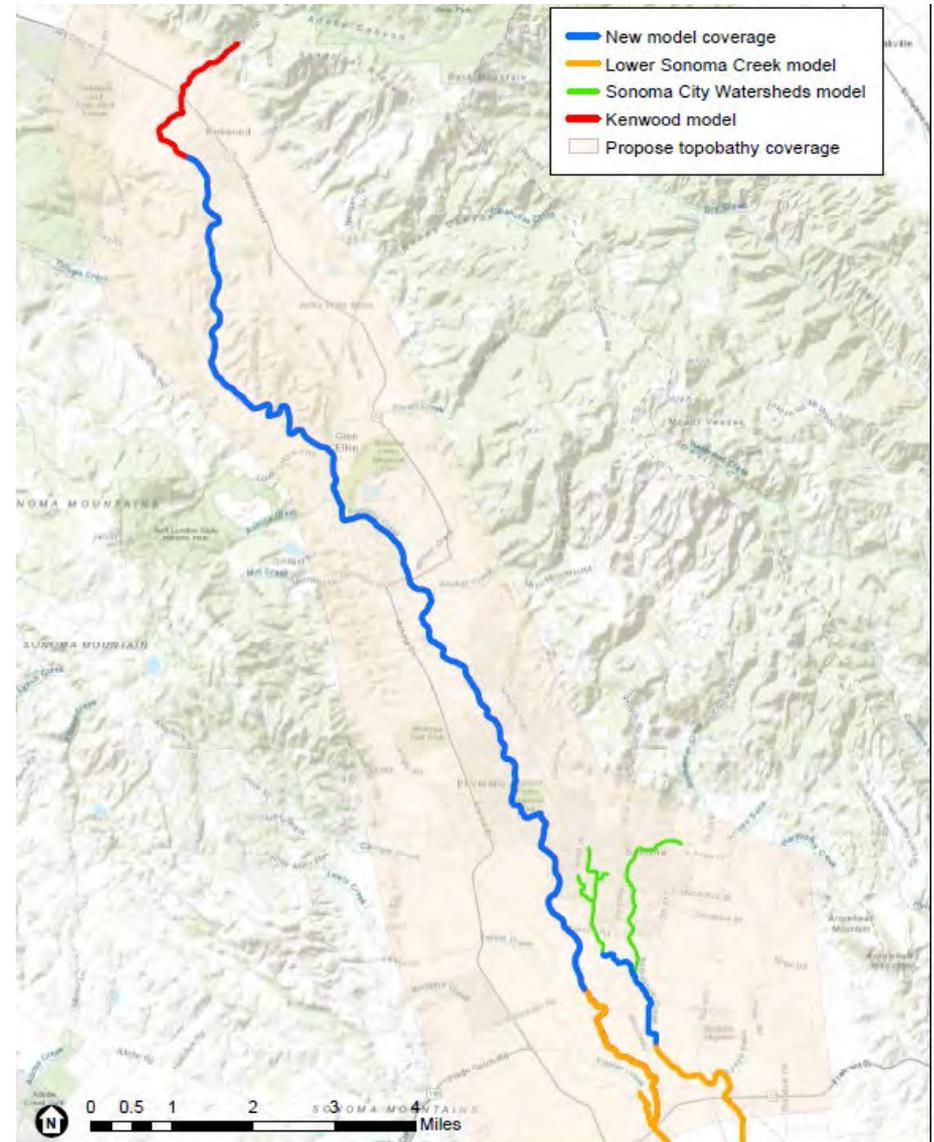
FLOOD ZONE 3A  
ADVISORY COMMITTEE MEETING

11/19/2020



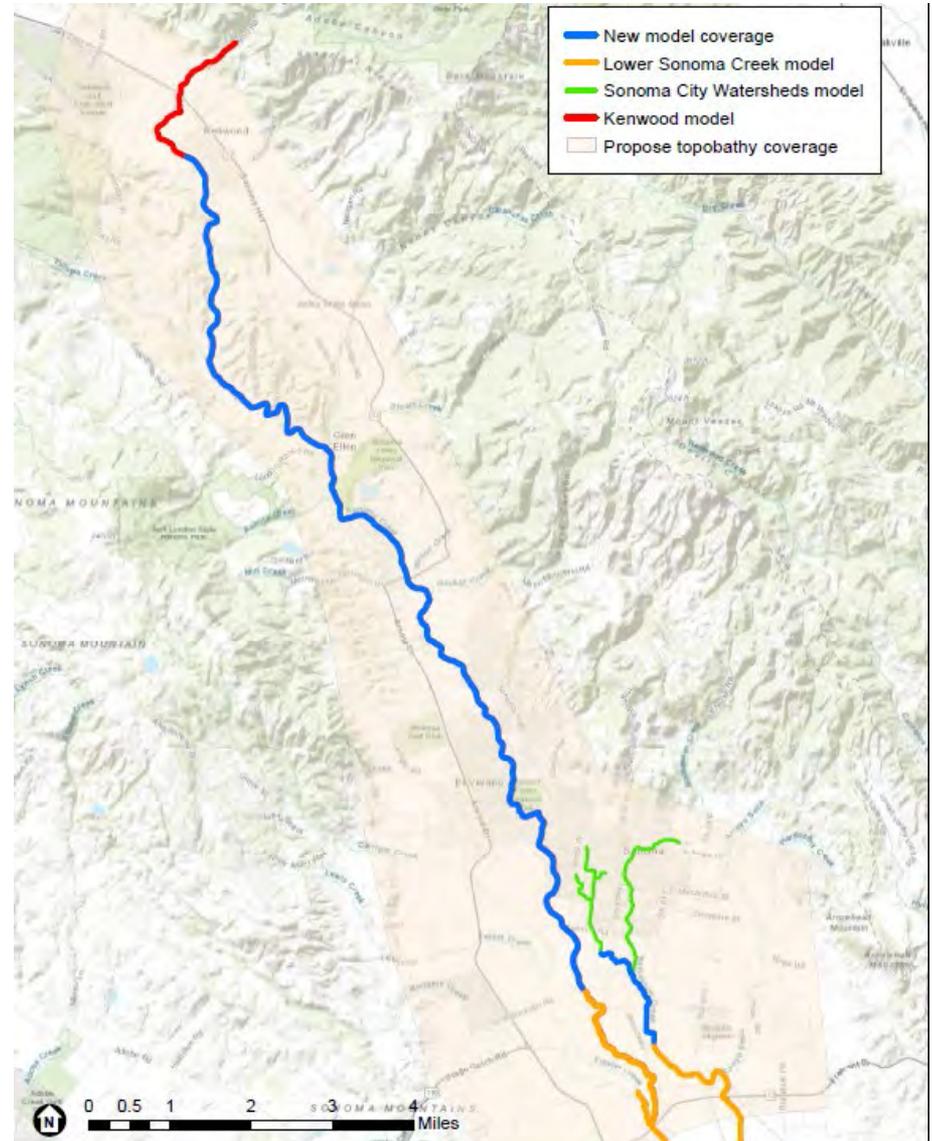
# Sonoma Valley H&H Modeling

- Comprehensive watershed model
  - Hwy 121 to Adobe Canyon
- Model objectives
  - Better understand flooding dynamics within the Valley
  - Evaluate conceptual projects in the future
  - Inform other watershed management efforts



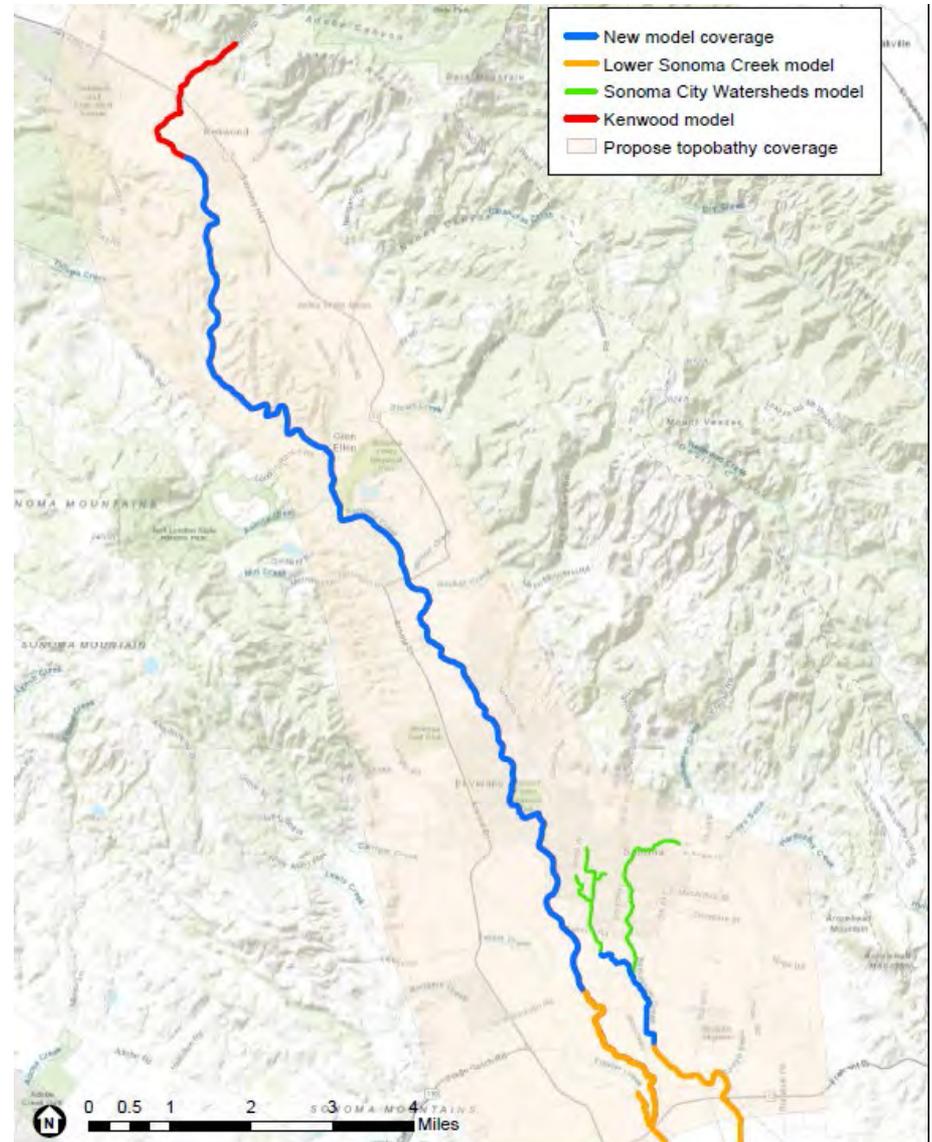
# Scope Refinements

- Updates to approach since last year
  - Expanded effort to include Nathanson and Fryer Creek
  - Reassessed approach to ground survey due to outreach/access challenges
  - Topobathymetric LiDAR
  - Field survey limited to structures
    - 26 Bridges, 3 Weirs, + 1 Box Culvert



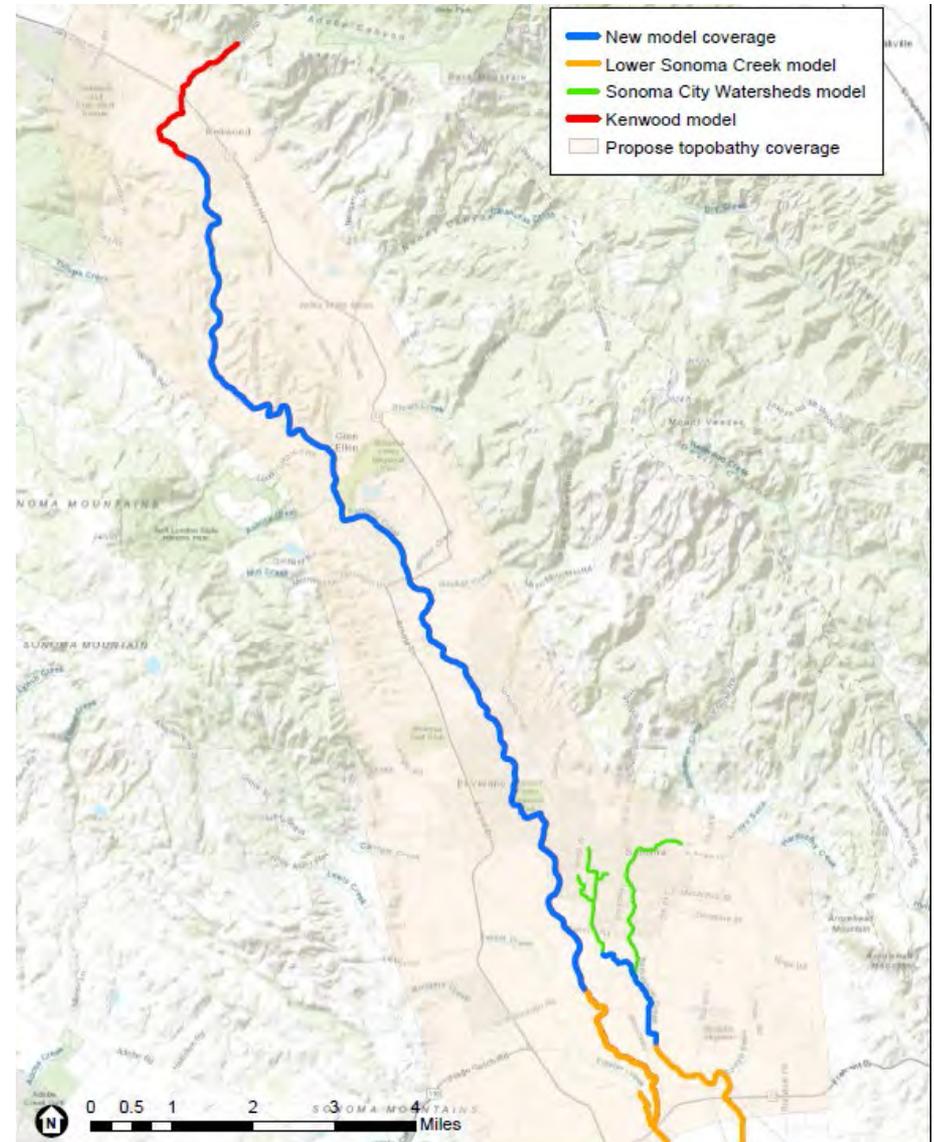
# Modeling Tasks

- Surveys + LiDAR
- Hydrological Model Updates
- Hydraulic Model Development
- Model Calibration
  - NYE 2005
  - Feb 25-27, 2019
- Report



# Future Tasks / Next Steps

- Flood reduction investigations
- Project development
- Expand survey + hydraulic model to incorporate additional tributaries





**Sonoma  
Water**