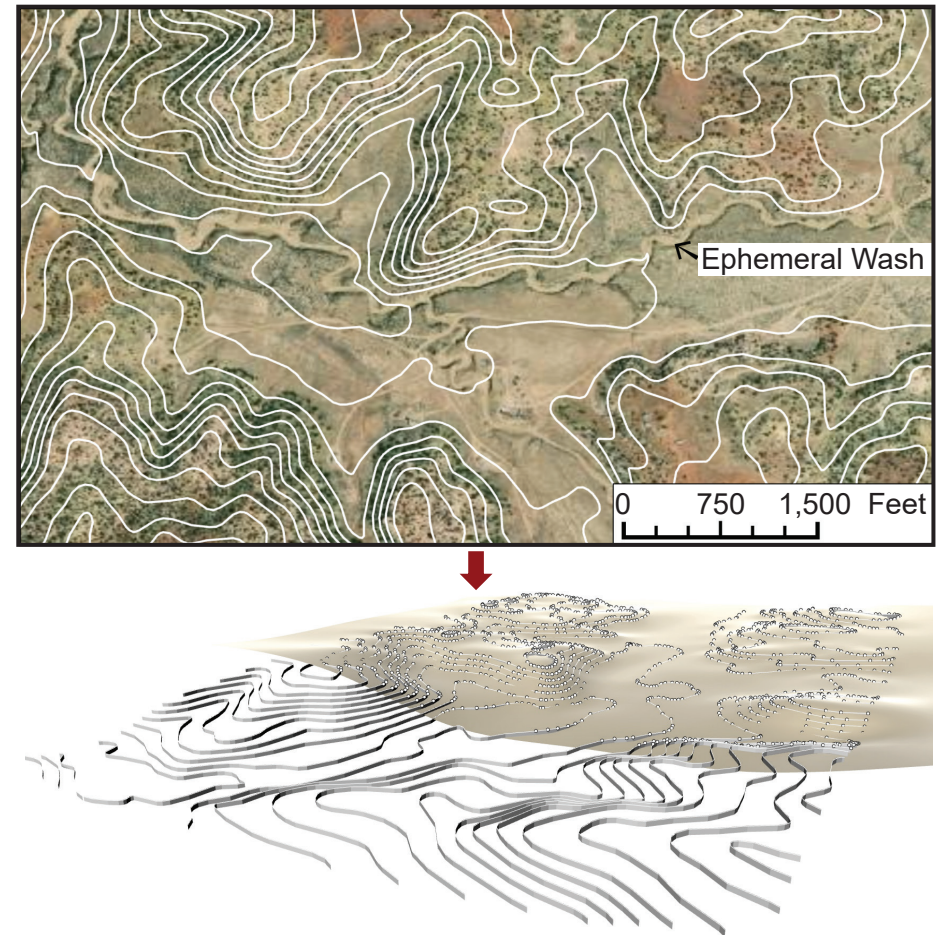
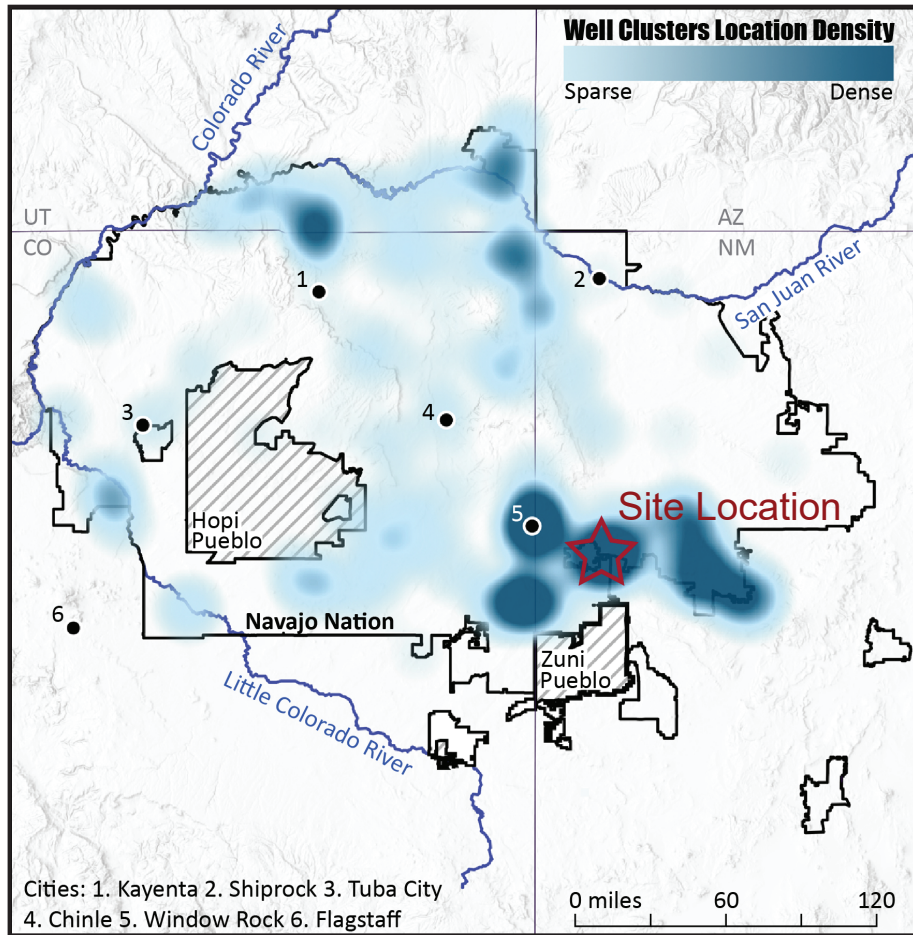




I modeled a real site to envision implementing a brush check dam system. Selecting a site within a high density of wells (the red star, left) ensures the aquifers beneath the wells will replenish as the dams capture water and allow infiltration. The selected location for the implementation site that could help restore an aquifer in a well-dense area is 560 acres. It has an ephemeral wash running through the site. I obtained the USGS contours in GIS and transferred this information to Rhino to create a model with exact dimensions, elevations, and landforms of the real site. This allows illustrations in the model to be scaled accurately.