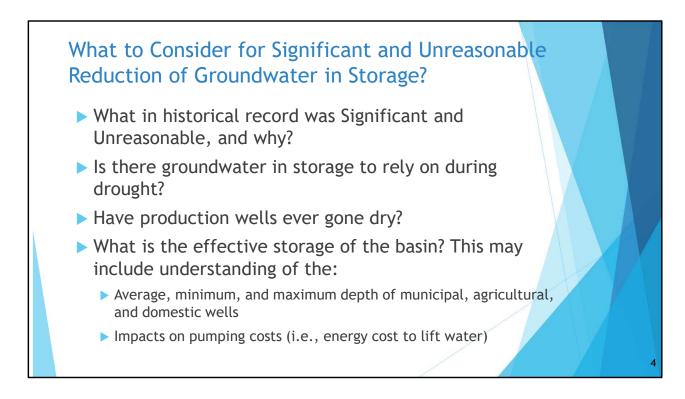
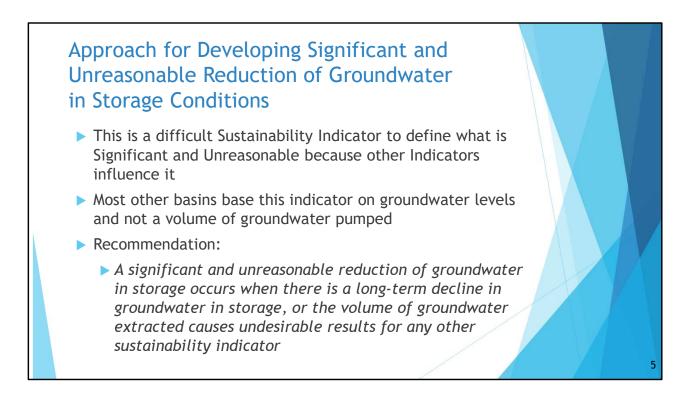


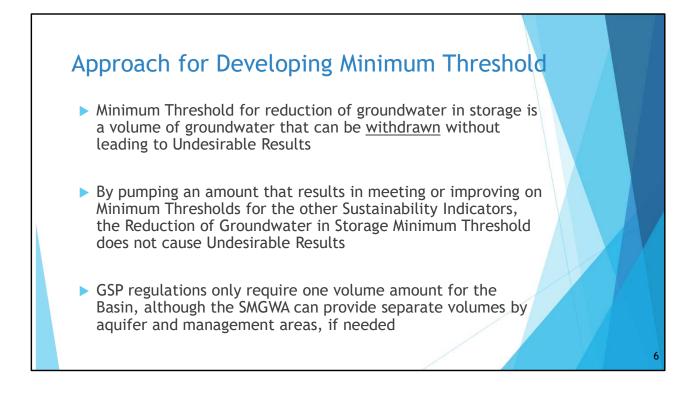
Groundwater in storage is directly related to groundwater levels. However, the metric for this indicator is a volume of water pumped and not groundwater levels. The graphics on this slide show that if you meet all other criteria then you can go back and look at the range of storage you can maintain at those thresholds. This illustrates how interrelated the storage indicator is with the other groundwater level measured indicators

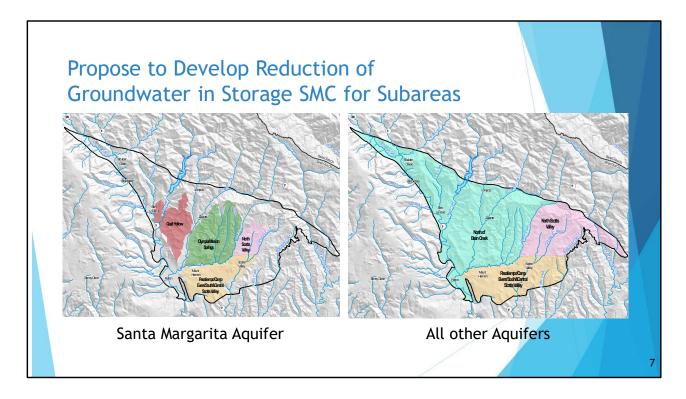


These are very similar questions we asked about past groundwater level conditions



Recommendation is generic but covers the intent of this indicator





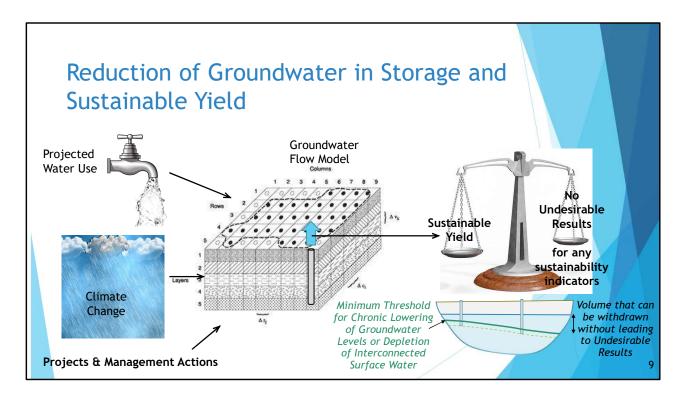
Managing the Basin to one Reduction of Groundwater in Storage Minimum Threshold does not work in the case where pumping your entire SY from one aquifer this would clearly be undesirable

Better to manage each aquifer if there are SMC for each aquifer

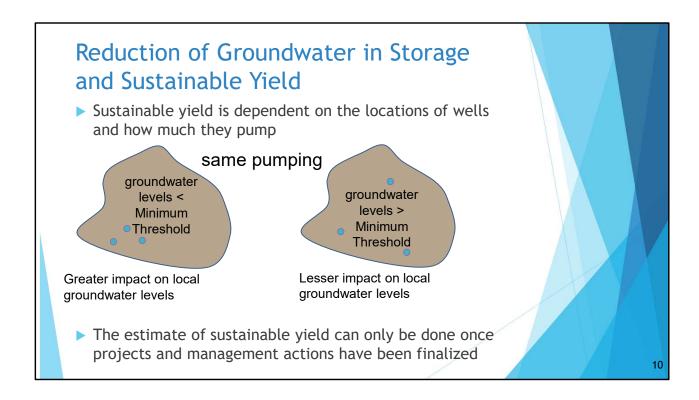
Subareas are proposed based on where the Santa Margarita aquifer is isolated in certain locations. The Pasatiempo/Camp Evers/South & Central Scotts Valley subarea is delineated from the North Scotts Valley subarea based on where the Santa Margarita aquifer is dewatered and where an approximate groundwater divide occurs at this location.

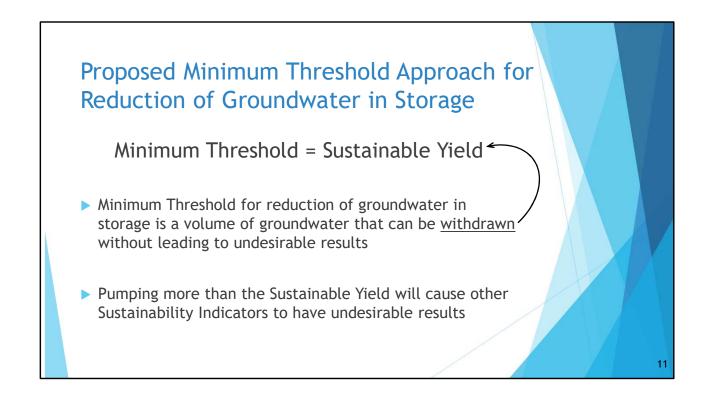


- Per GSP Regulations: Minimum thresholds for reduction of groundwater in storage are supported by the sustainable yield of the basin, calculated based on historical trends, water year type, and projected water use in the basin
- The sustainable yield is the amount of groundwater that can be pumped from the Basin without causing undesirable results



We estimate sustainable yield using projected water use, climate change, and projects and management actions in the model to simulate future groundwater levels for the next 50 years. Pumping is adjusted in the model until no undesirable results occur in the Representative Monitoring Wells with groundwater level criteria. The resulting volume of groundwater extracted is the projected long-term Sustainable Yield.





Next Steps for Reduction of Groundwater in Storage Sustainability Indicator

Once Minimum Thresholds for chronic lowering of groundwater levels and depletion of interconnected surface water are determined:

- 1. Board defines Significant and Unreasonable Conditions related to reduction of groundwater in storage
- 2. Develop predictive model run with climate change, projected water demands, and projects & management actions
- 3. Use model to estimate Sustainable Yield for each subarea by aquifer
- 4. Define Minimum Threshold for each subarea by aquifer
- 5. Use predictive model to determine Measurable Objectives for each subarea by aquifer

