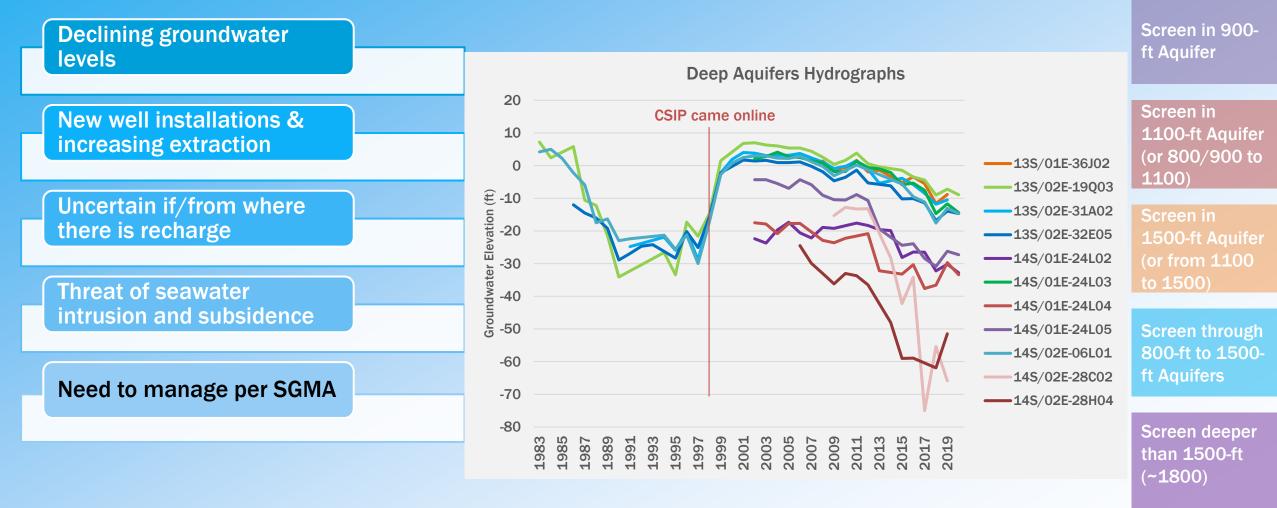
SALINAS VALLEY DEEP AQUIFERS STUDY



A Brief Overview of Study and Approach January 24, 2022

WHY THIS STUDY IS NEEDED



Still 1500-ft

Aquifer?



WELL INSTALLATIONS & EXTRACTION

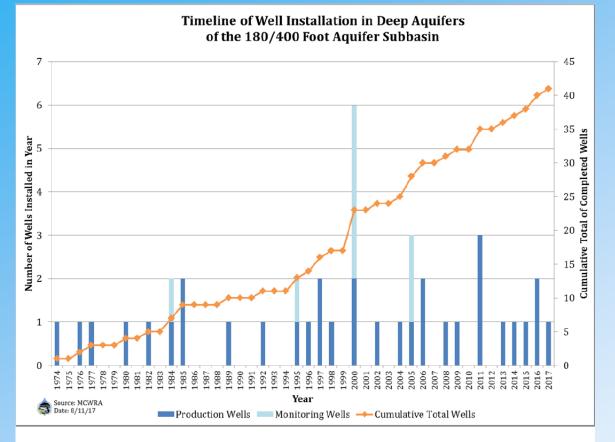


Figure 19 - Timeline of Well Installation in Deep Aquifers of the 180/400 Foot Aquifer Subbasin

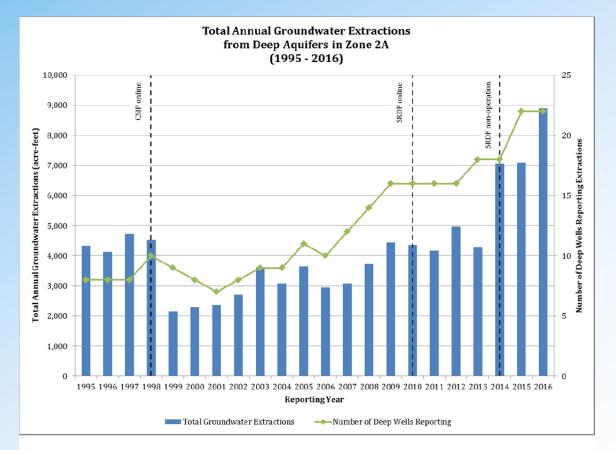


Figure 23 - Total Annual Groundwater Extractions from Deep Aquifers in Zone 2A (1995-2016)

Recommendations to Address the Expansion of Seawater Intrusion in the Salinas Valley Groundwater Basin, Monterey County Water Resources Agency, October 2017



UNDERSTANDING OF KEY QUESTIONS FOR MANAGEMENT

How should the Deep Aquifers be defined?

What is the lateral extent?

What is the connectivity with overlying aquifers and recharge?

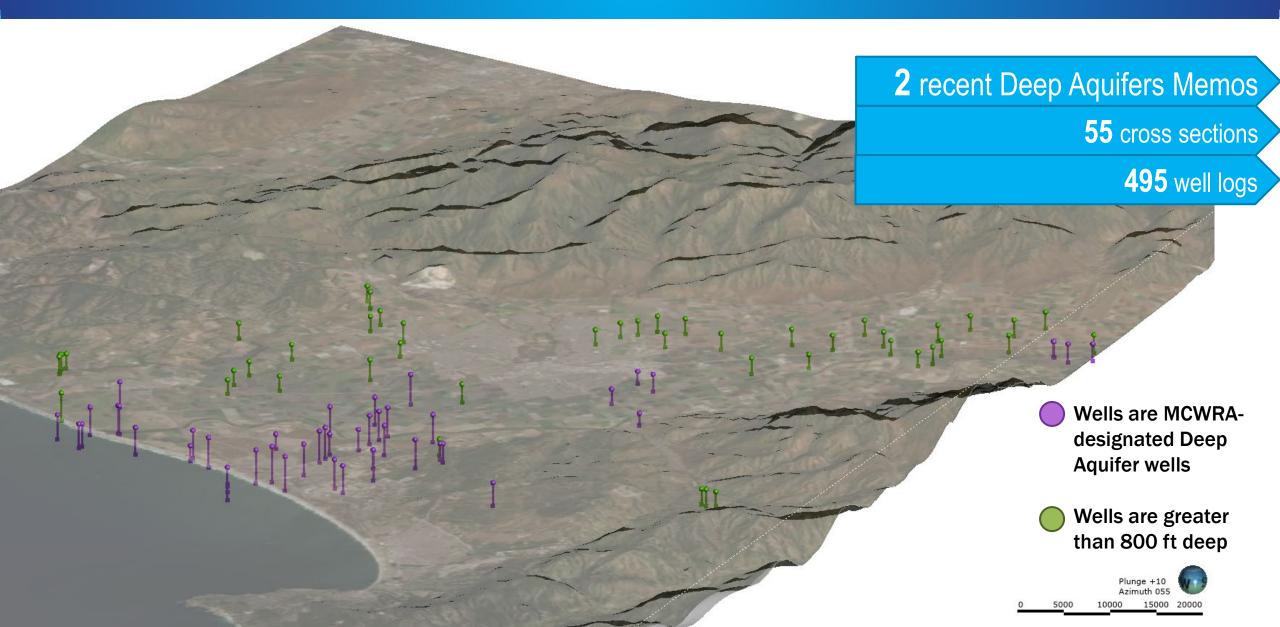
What is the water budget?

How should monitoring be focused?

What principles should guide management?

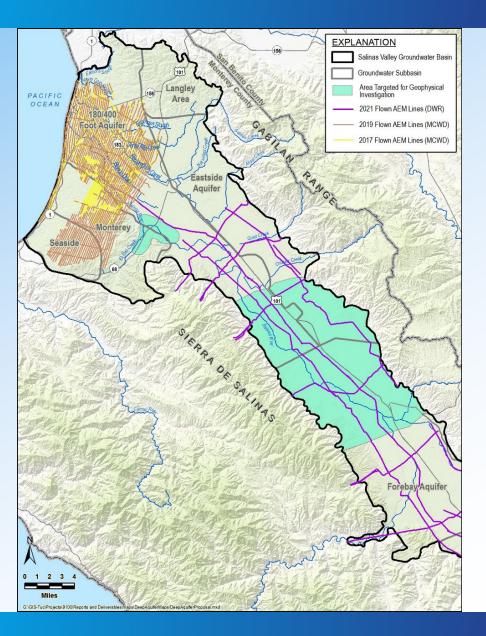


BUILD OFF DEEP AQUIFERS DATA



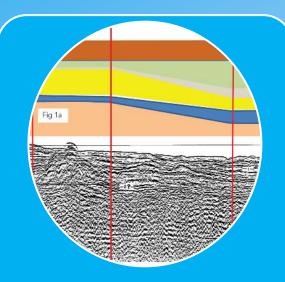
PHASE 1: PRELIMINARY INVESTIGATION

- Define the Deep Aquifers
- Scrutinize existing data with respect to new definition and to define field study locations and techniques
- Develop interim monitoring and management recommendations





PHASE 2: FIELD STUDIES



Geophysics maps important geologic features

RAMBOLL



Aquifer testing

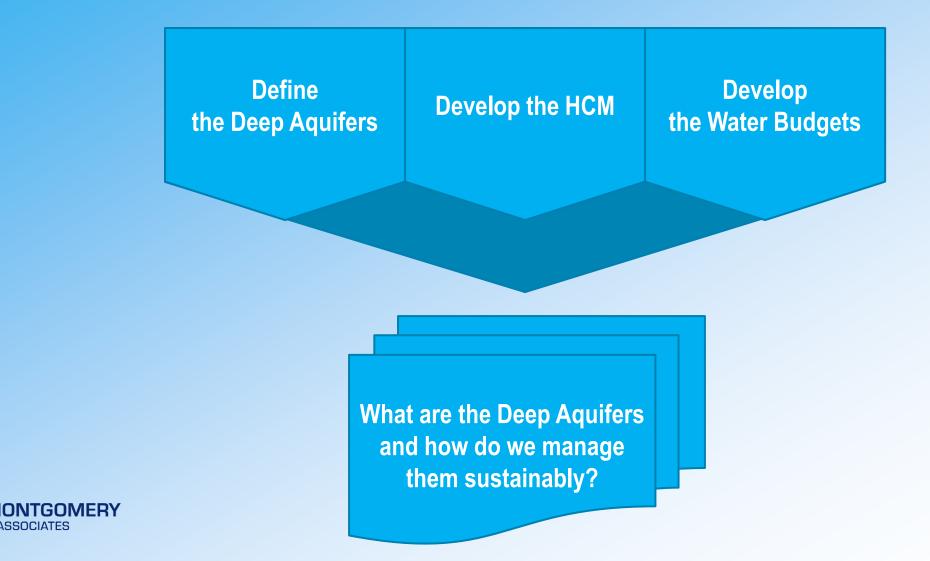
provides data on groundwater movement and storage



Groundwater quality samples identify aquifer connectivity and recharge areas

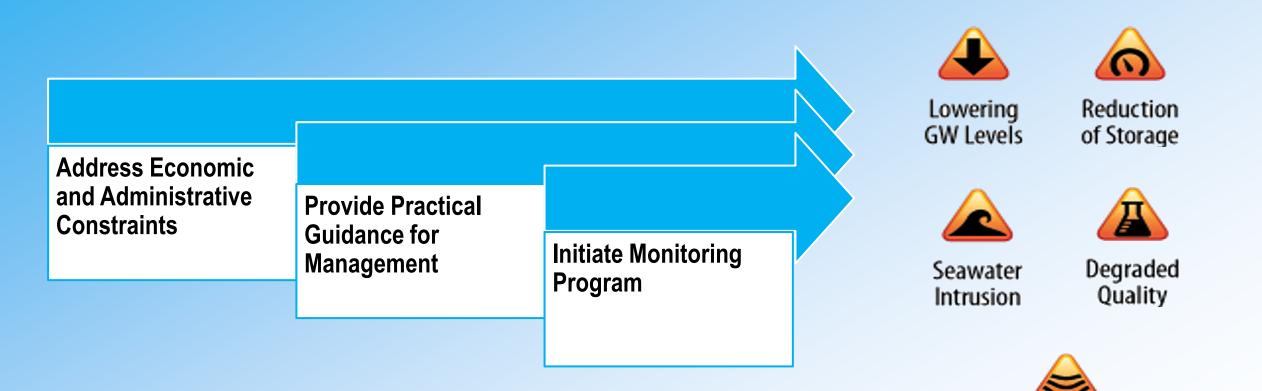
Early phase results will guide what additional data are useful, and which tools are necessary

PHASE 3: BRINGING IT ALL TOGETHER



ASSOCIATES

INCORPORATE INTO SUSTAINABLE MANAGEMENT



Land Subsidence



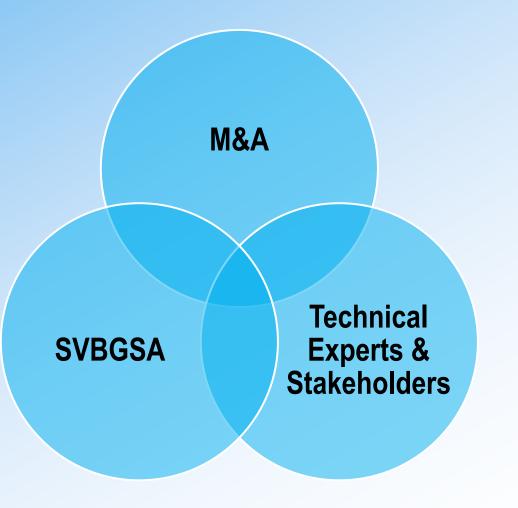
WE'RE NOT ALONE – KEY POINTS OF ENGAGEMENT

4 Technical Meetings to get feedback on key parts of the study:

- Conceptual definition of the Deep Aquifers
- Field Study Results & HCM
- Draft Water Budget
- Draft Management Guidance

Update on Preliminary Investigation and Interim Monitoring and Management Recommendations to the Board (summer 2022)





THIS STUDY WILL PROVIDE

Defined extent of the Deep Aquifers

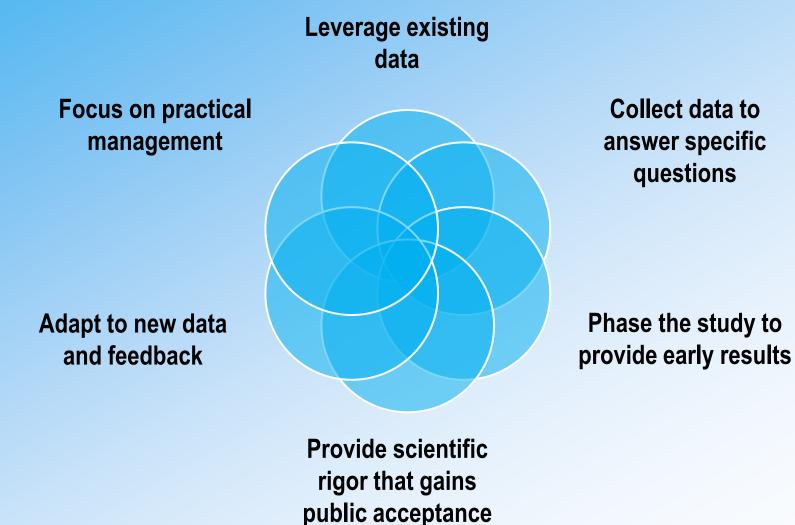
Hydrogeologic Conceptual Model of the Deep Aquifers, that builds on existing data, fills in key data gaps with new data, and informs the:

Lateral extent

- Connectivity with overlying aquifers
- Risk of seawater intrusion
- Water budget for the Deep Aquifers
- Guidance for management based on science
- Proposal for Deep Aquifers monitoring



GUIDING PRINCIPLES OF APPROACH





QUESTIONS?

