



Groundwater Sustainability Program Update

Santa Margarita Groundwater Agency

Board of Directors Meeting

May 25, 2023

Agenda Item 3.2

2023 Dry Season Monitoring

- Winter storms heavily damaged Newell Creek and Bean Creek at Mt. Hermon sites
- Both locations were relocated and rebuilt



Newell Creek Site



- Santa Cruz County providing in-kind monitoring of groundwater-dependent ecosystems
- Equipment loaned from United States Geological Survey

Stream Monitoring Process



1. Data logger installed

2. Stream conductivity measured

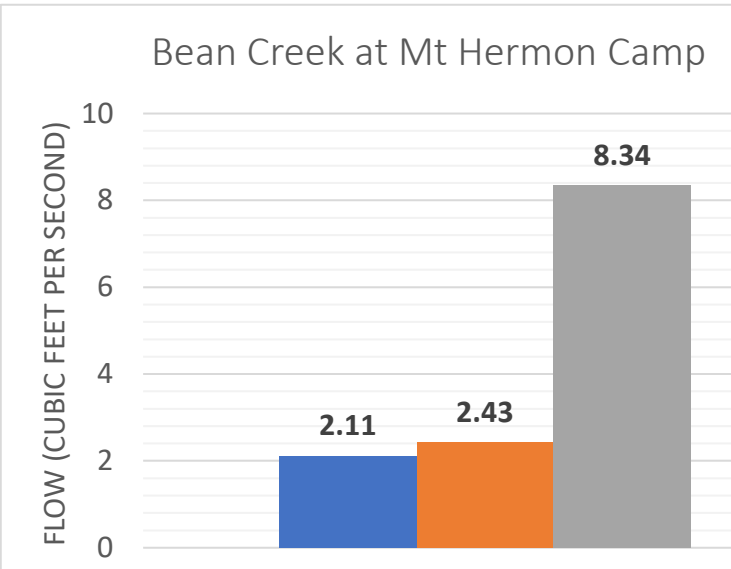
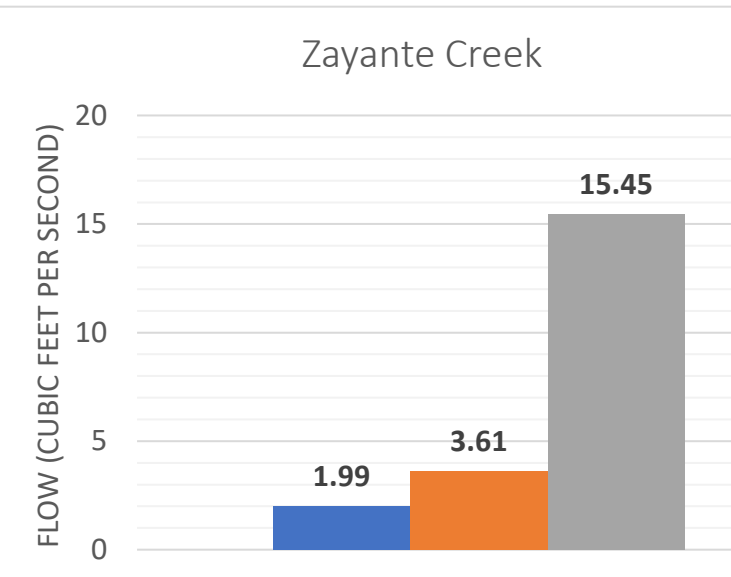
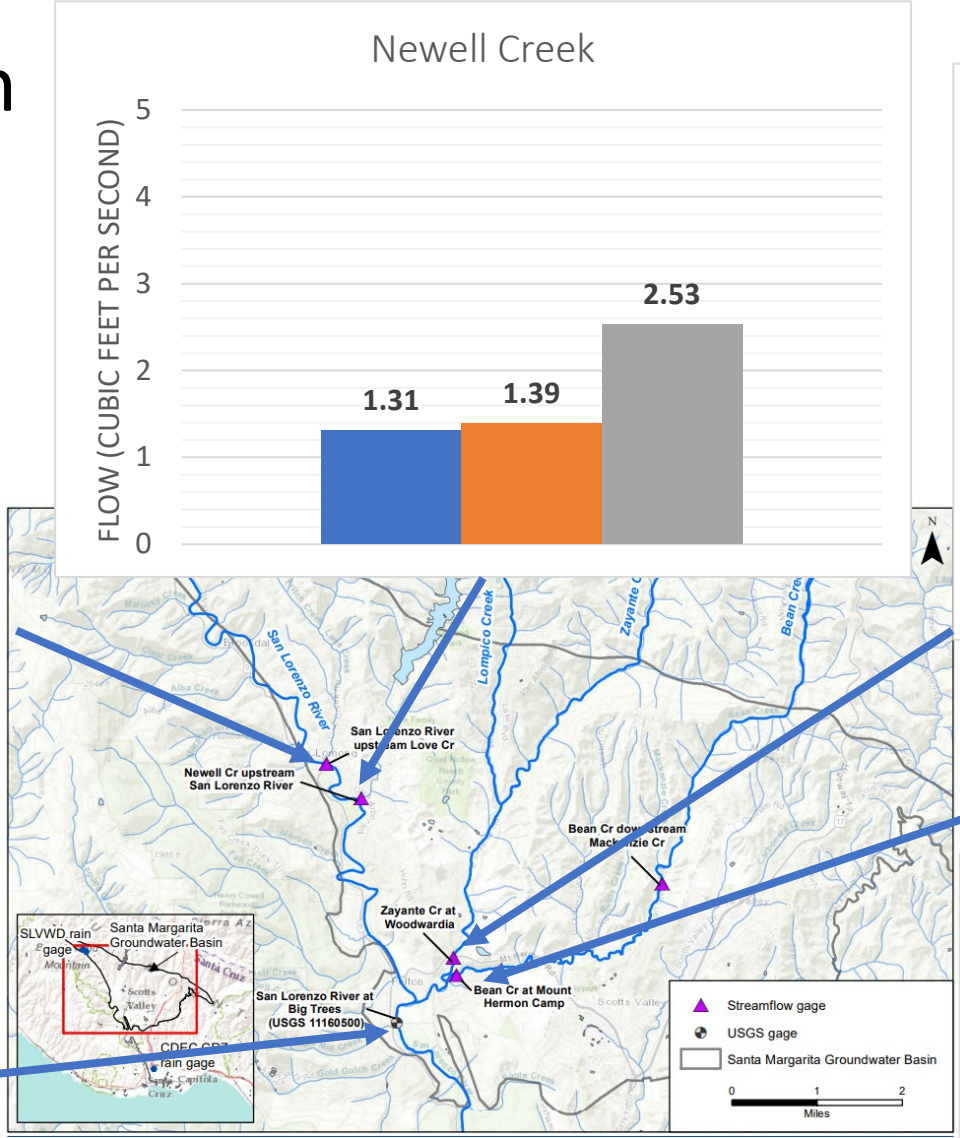
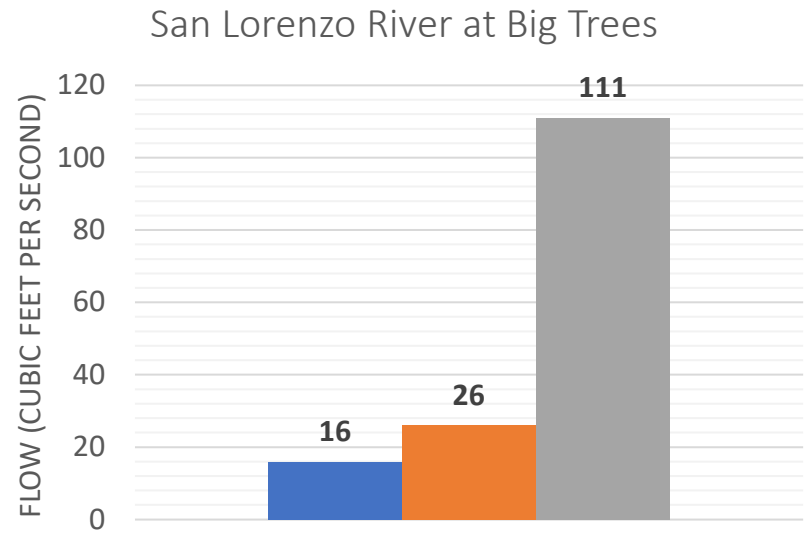
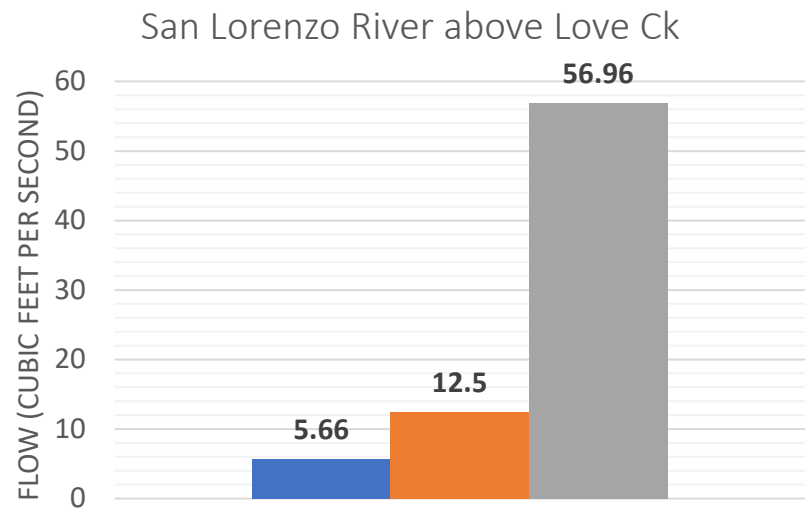


3. Measurements at 20 points along channel section

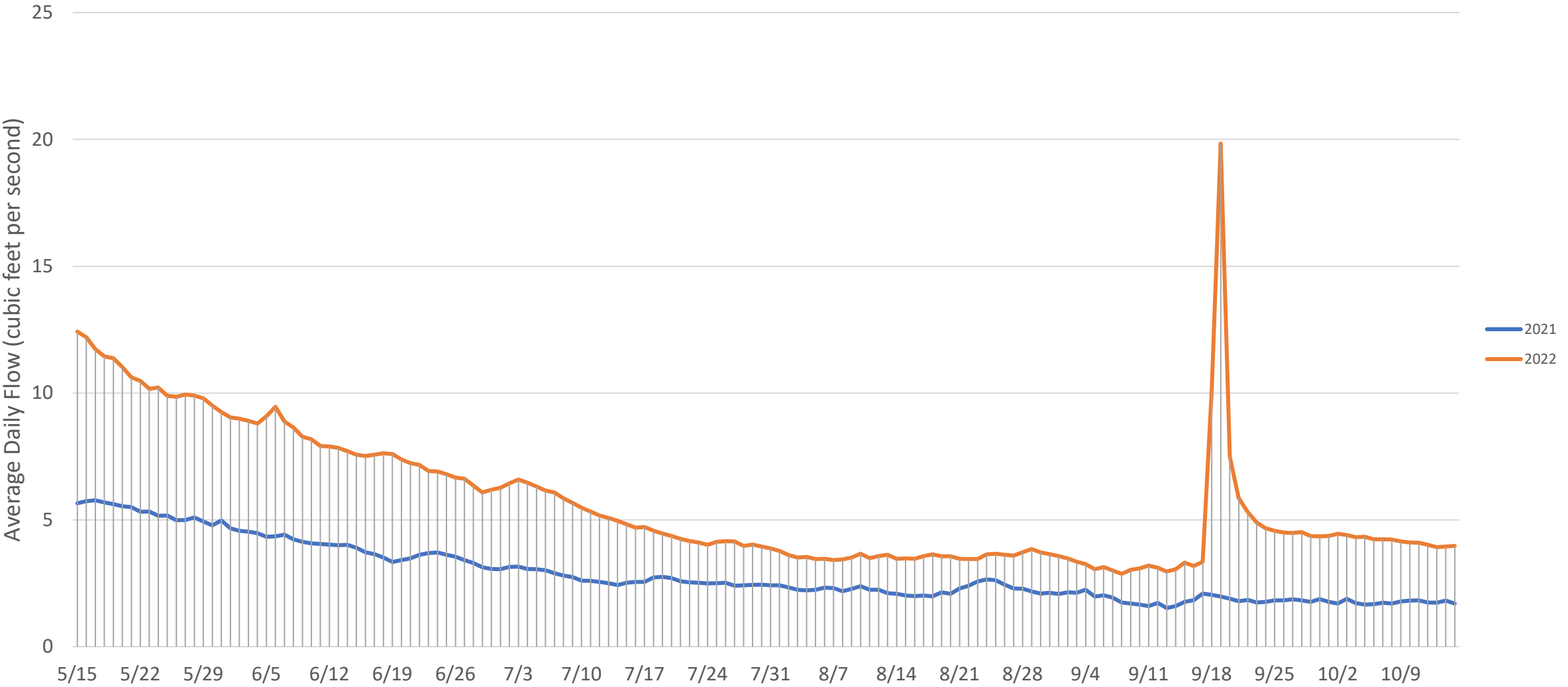


4. Point Flow Measurement

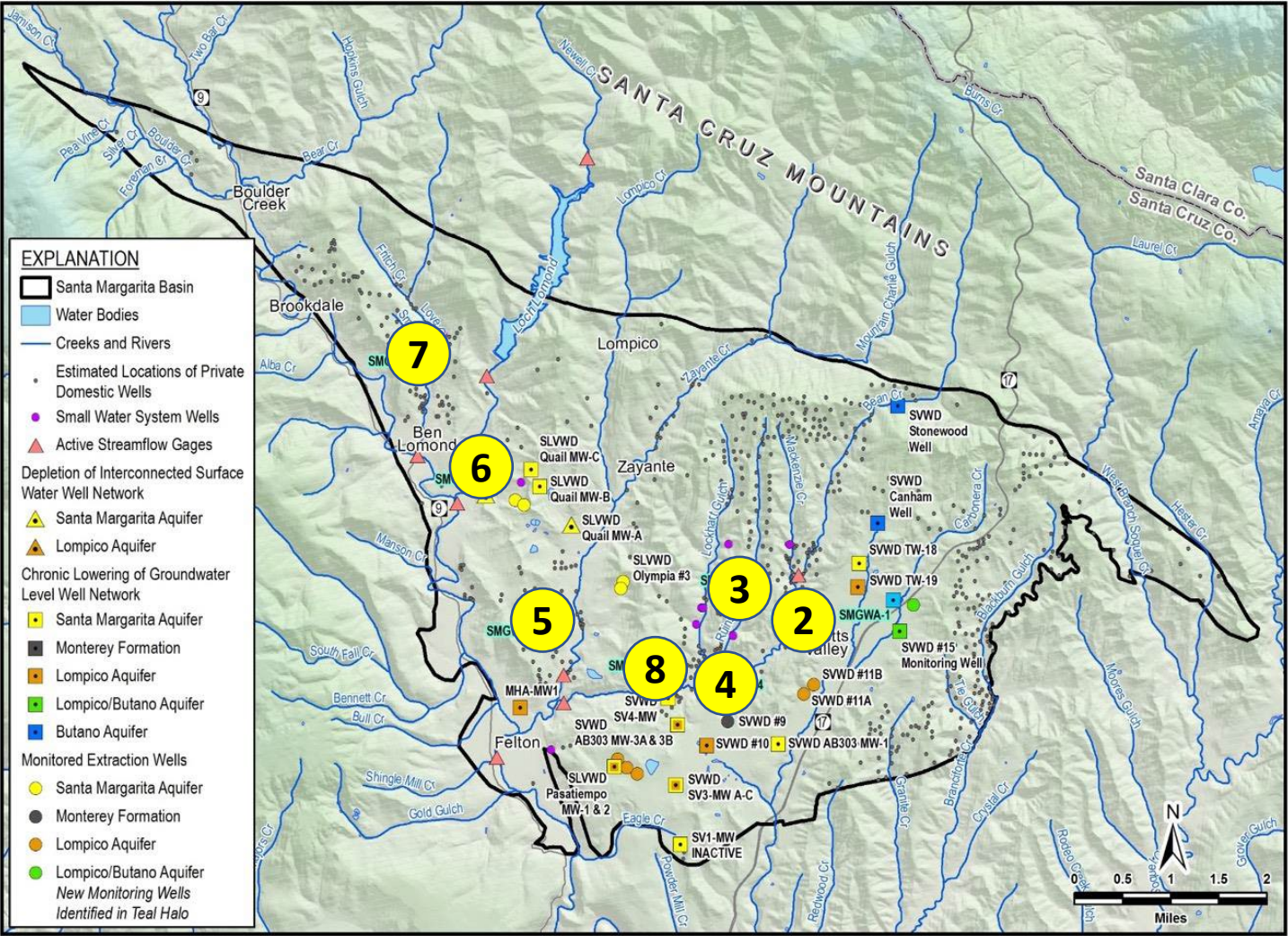
Beginning of Dry Season Flow Measurements



Dry Season Flow Measured at San Lorenzo River above Love Creek



Monitoring Well Construction Update



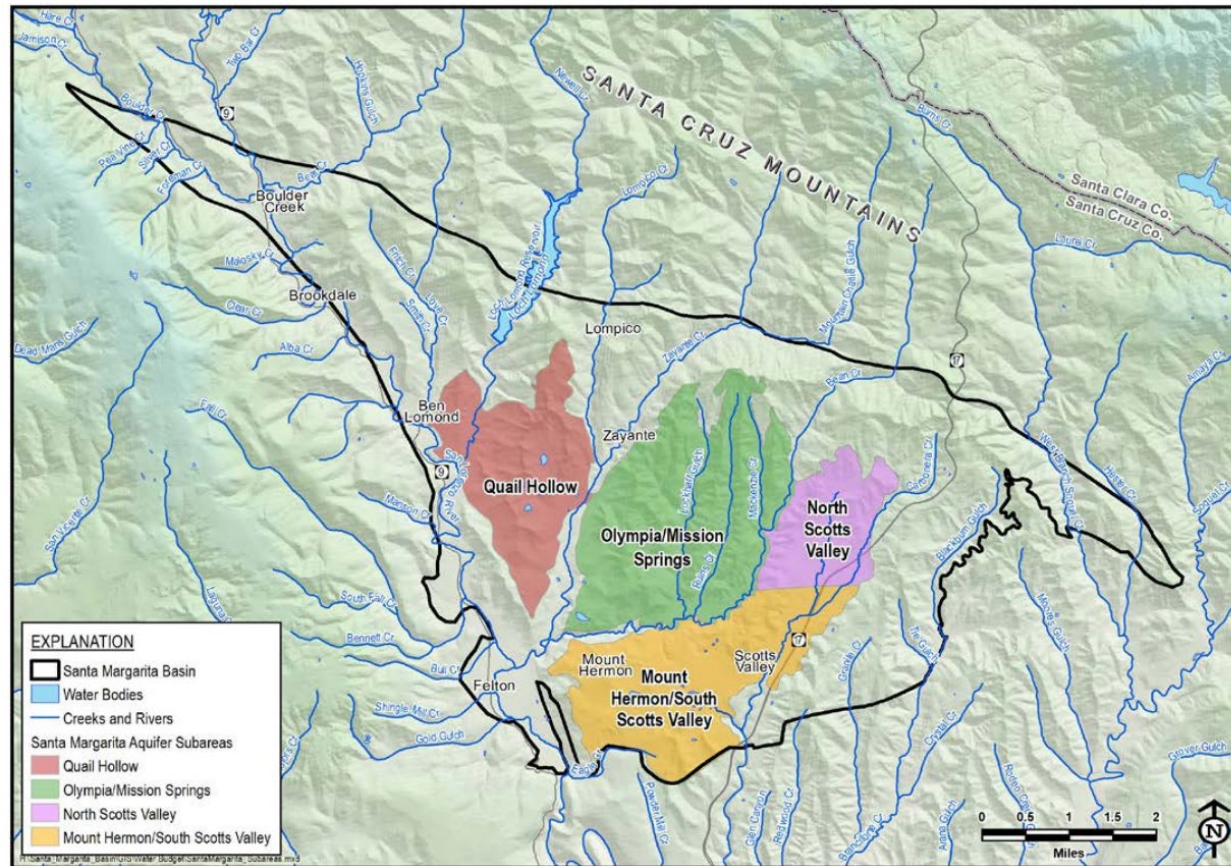
Well ID	Status/Comments
SMGWA- 2	Site needs tree trimming and smaller drill rig
SMGWA- 3	Ready to schedule drilling
SMGWA- 4	Need to coordinate timing with contractor currently using site for staging
SMGWA- 5	Well constructed to depth of 60 feet
SMGWA- 6	Need Sand Hills Mitigation forms and site easement
SMGWA- 7	Ready to schedule drilling
SMGWA- 8	Site under construction

Monitoring Well Drilling

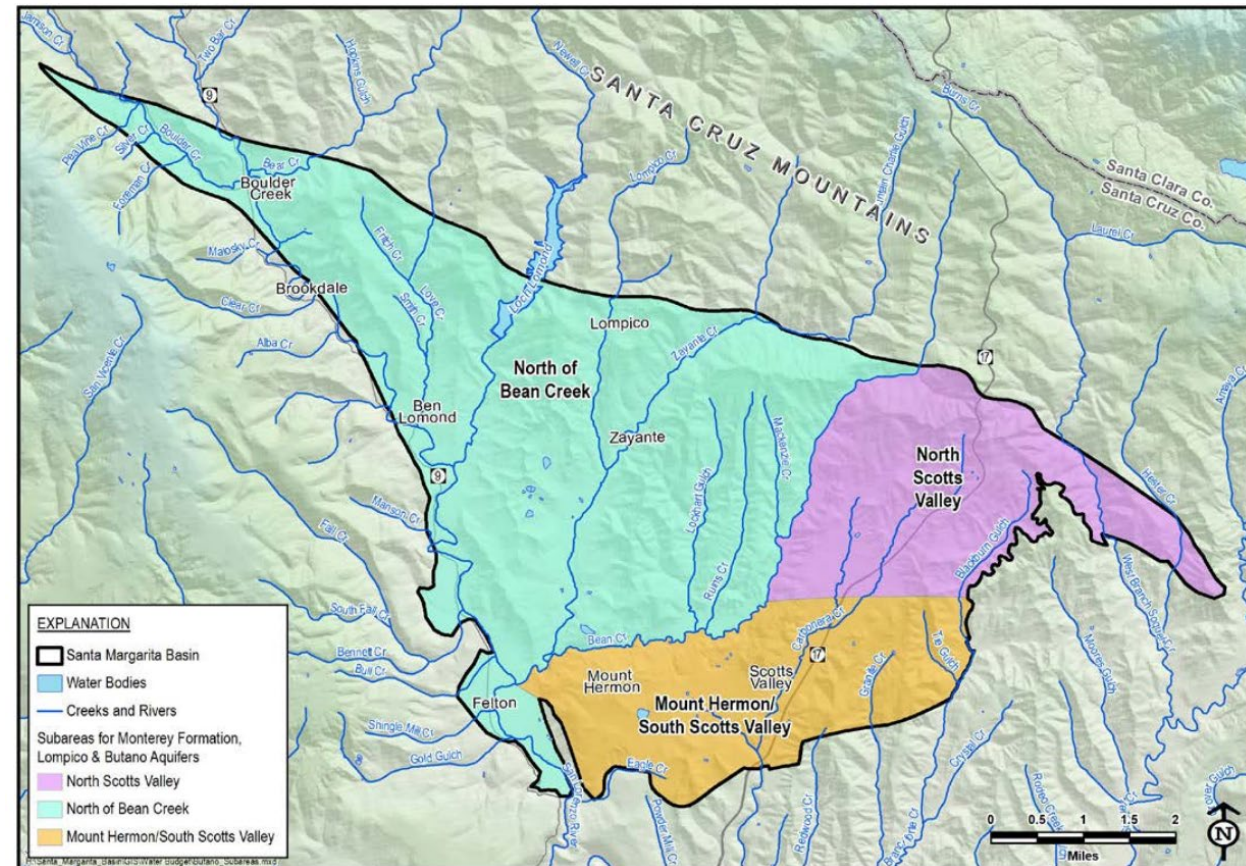


Funding has been provided in part from the Water Quality, Supply, and Infrastructure Improvement Act of 2014 and the Parks, Environment, and Water Bond Act of 2018

Spring 2023 Groundwater Level Review



Santa Margarita Aquifer Subareas

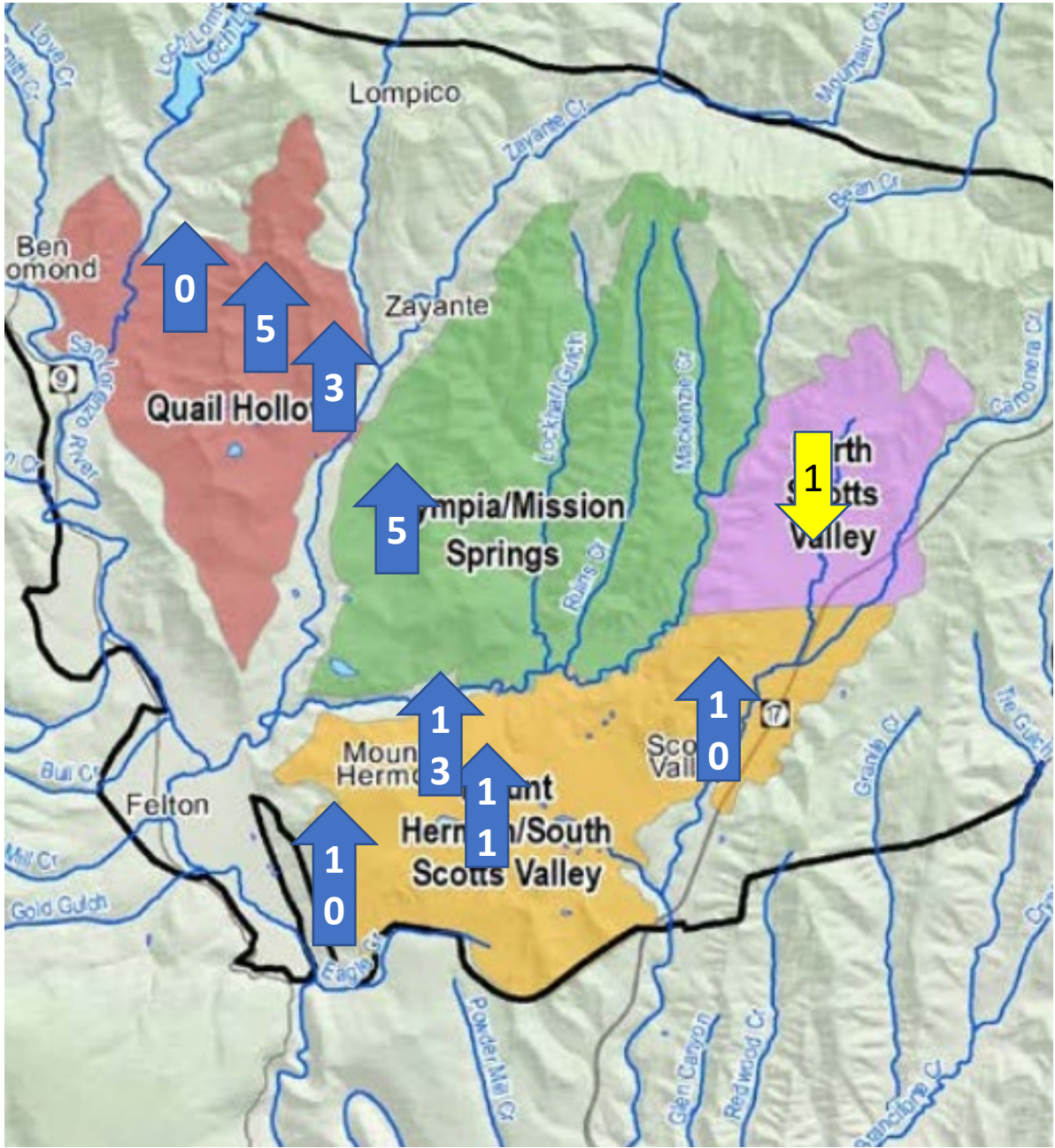


Monterey Formation and Lompico/Butano Aquifer Subareas

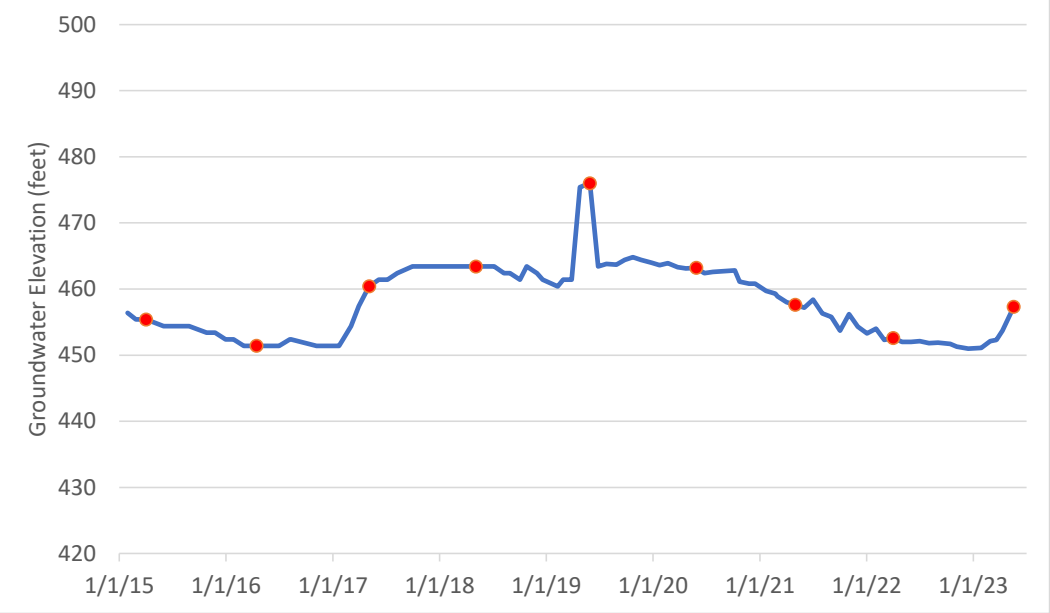
Spring 2023 compared to Spring 2022 in shallow aquifers

Key

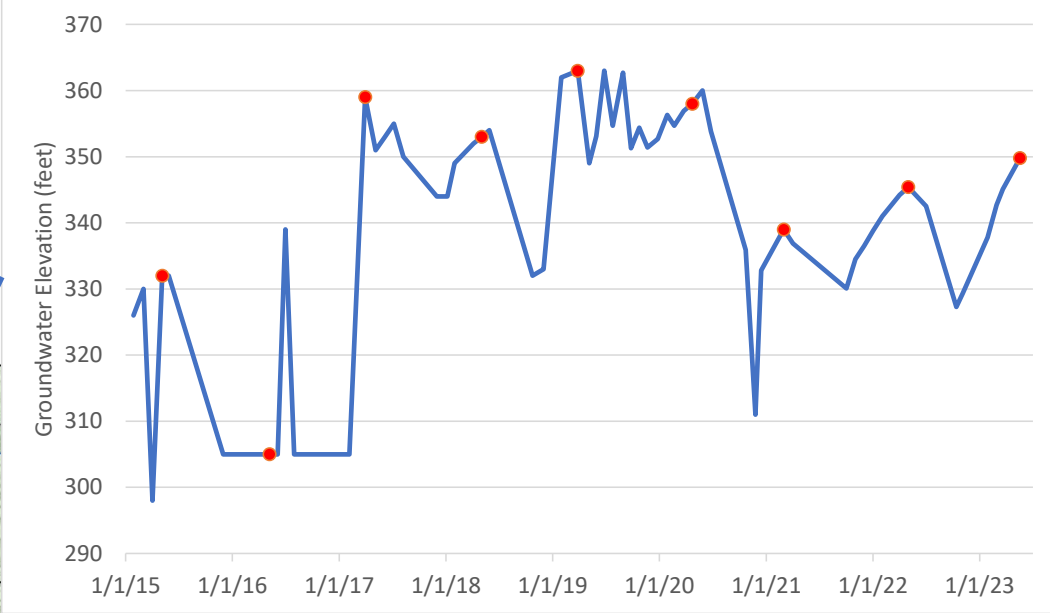
-  Increase (feet)
-  Decrease (feet)



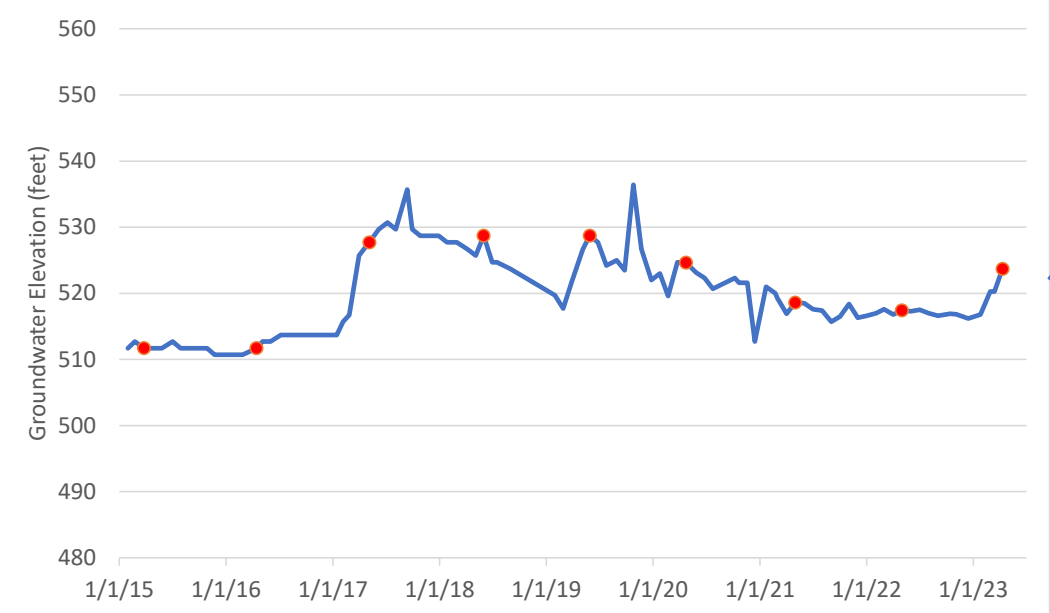
Quail Hollow MW-B



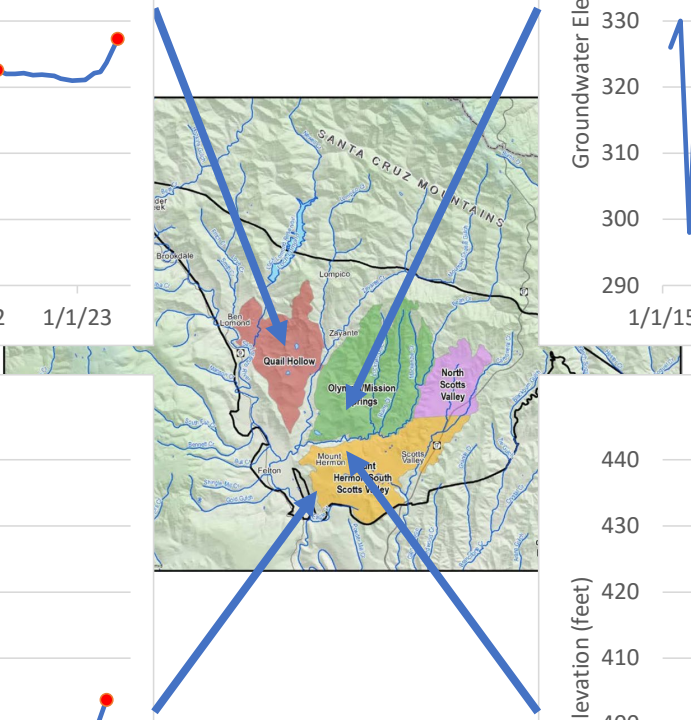
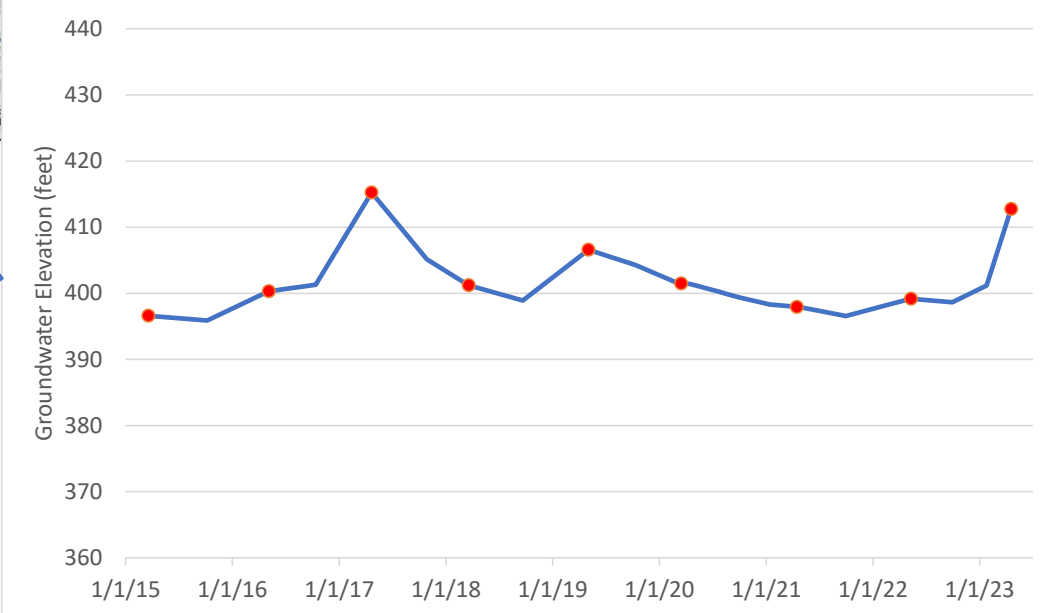
Olympia 3



Pasatiempo MW-2



SV4-MW



Spring 2023 compared
to Spring 2022 in
deeper formation/
aquifers

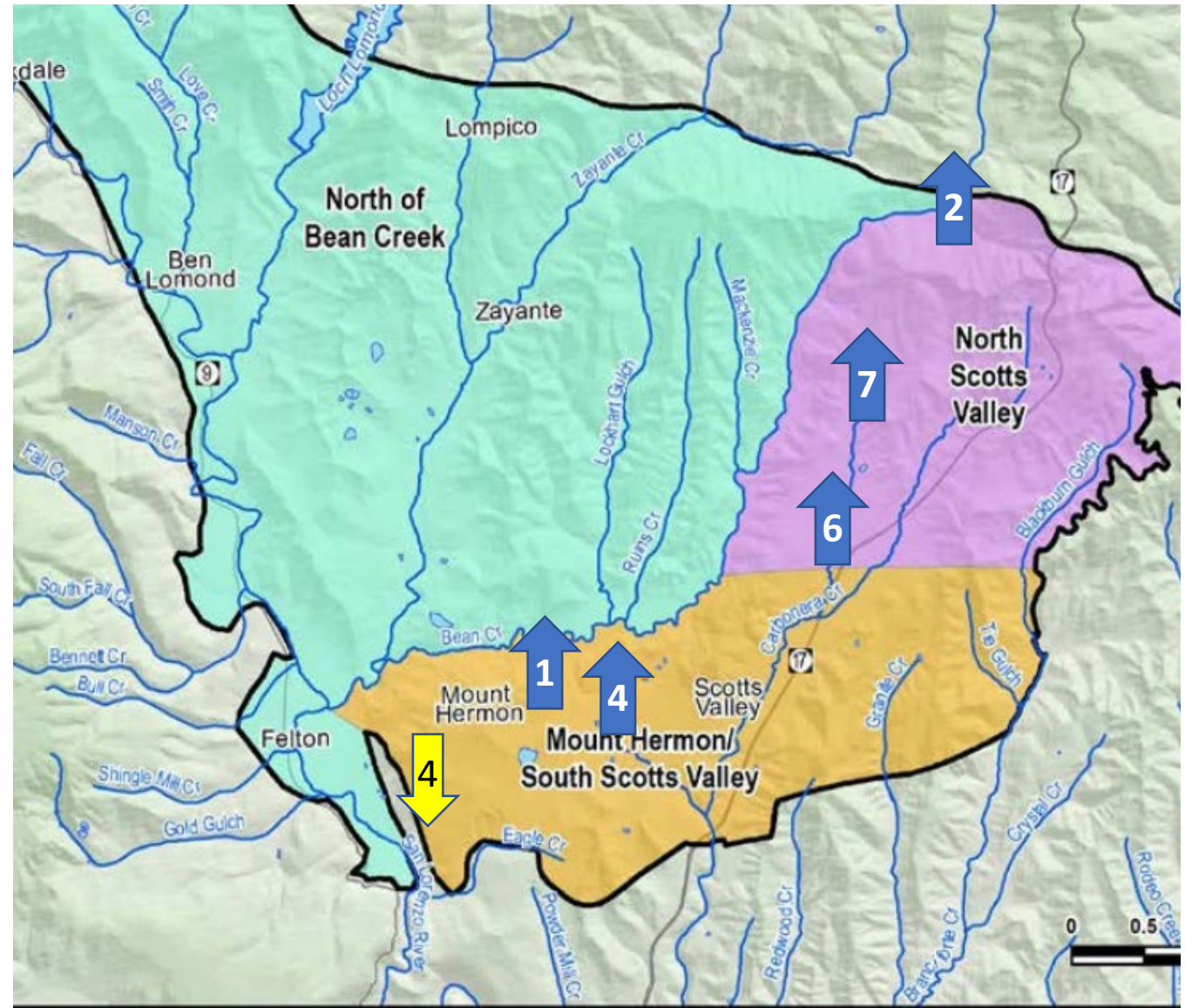
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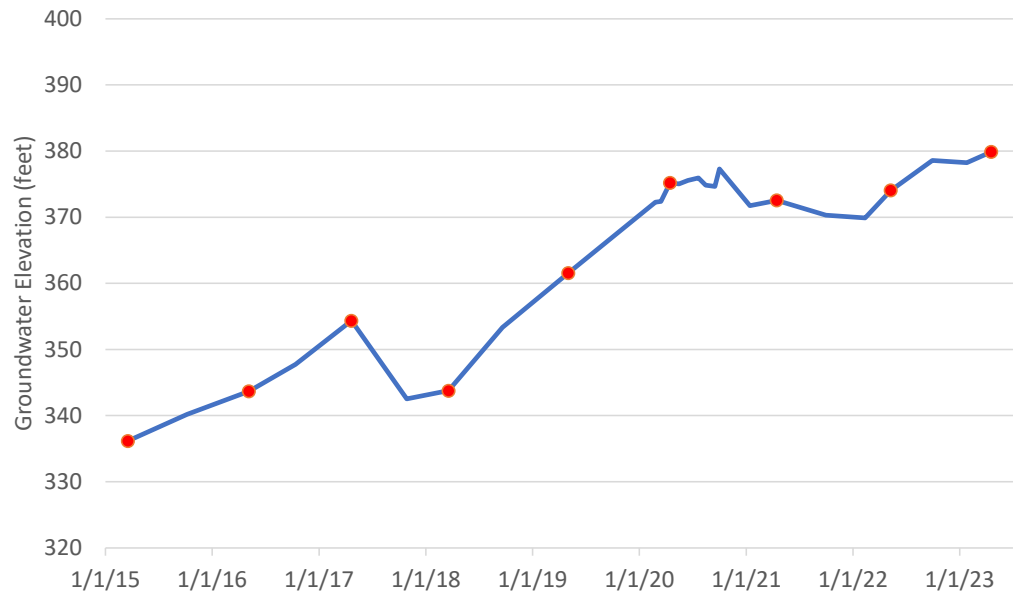
Increase (feet)



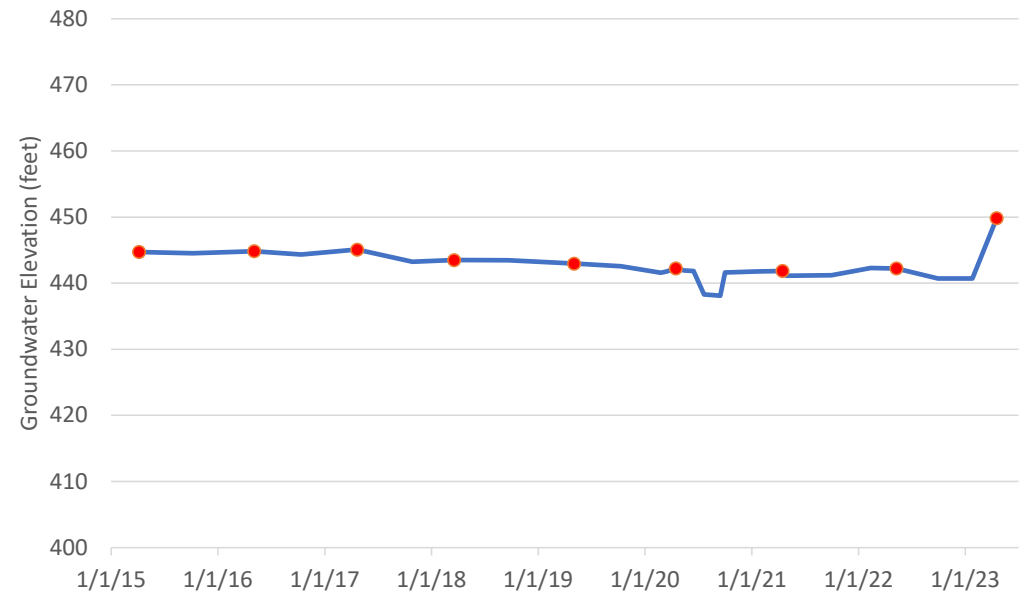
Decrease (feet)



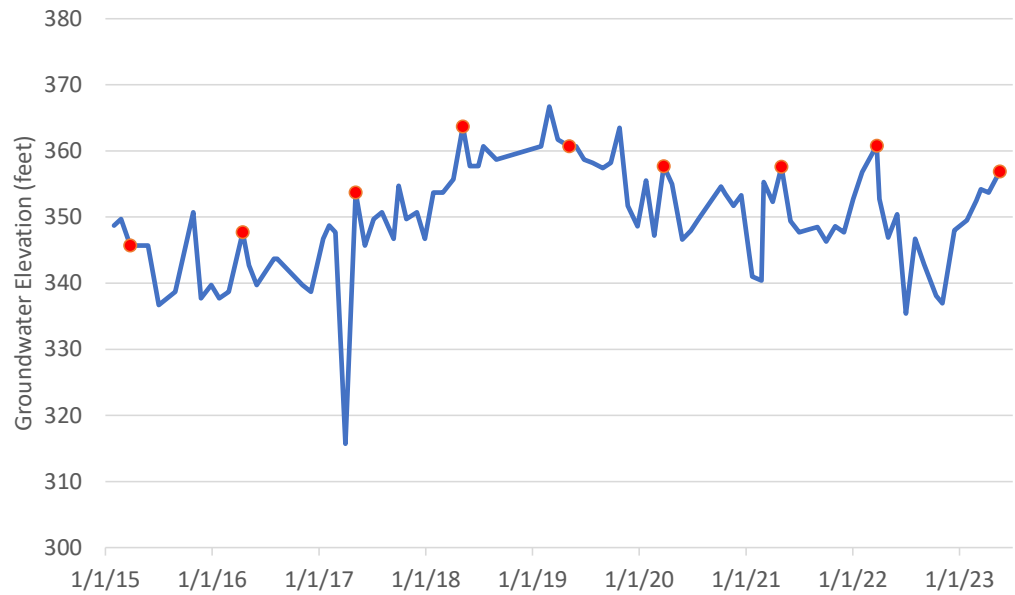
SVWD TW-19



SVWD Canham



Pasatiempo MW-1



SVWD #9

