

Today's Action

Consider receiving the 2022 August Trough Groundwater Level and Seawater Intrusion Contour Maps



Previous Committee Action

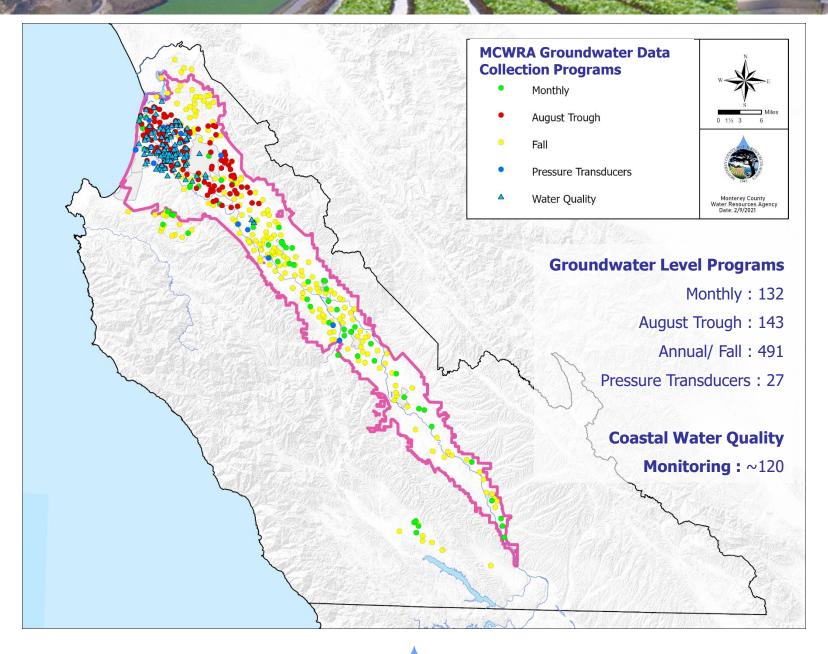
- Basin Management Advisory Committee received this report at their February meeting
- These activities can be linked to Strategic Plan Goals
 - B7 Using data and analysis to make informed decisions based on science
 - E1 Improve public outreach to increase transparency, communication education and information about Agency projects and programs
 - Program line items
 - 23 Groundwater monitoring of dedicated wells
 - 50 August Trough
 - 52 Coastal WQ Monitoring Program



Financial Impact

- No financial impact to receive this report
- Activities associated with this program are funded by Funds 111 and 116, and are included in each year's budget

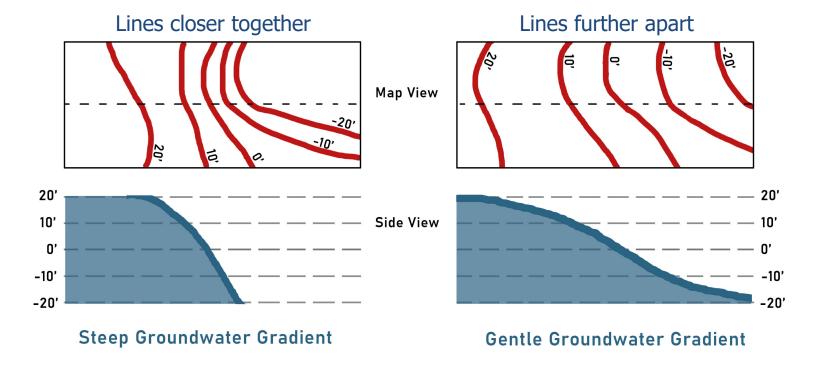






What are Groundwater Level Contours?

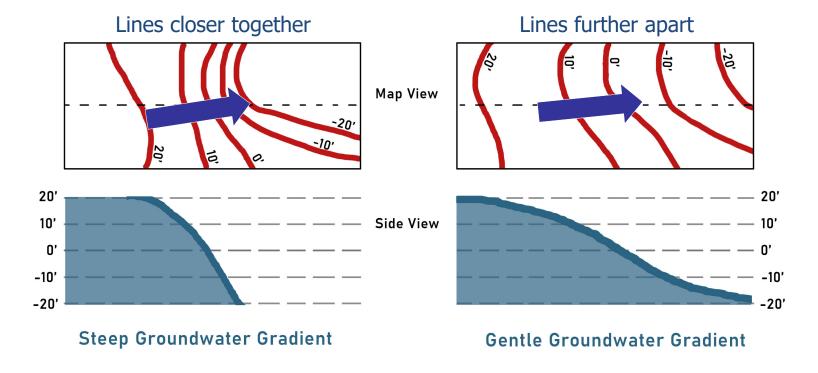
 Lines on a map representing equal lines of groundwater levels, or elevations relative to mean sea level





What are Groundwater Level Contours?

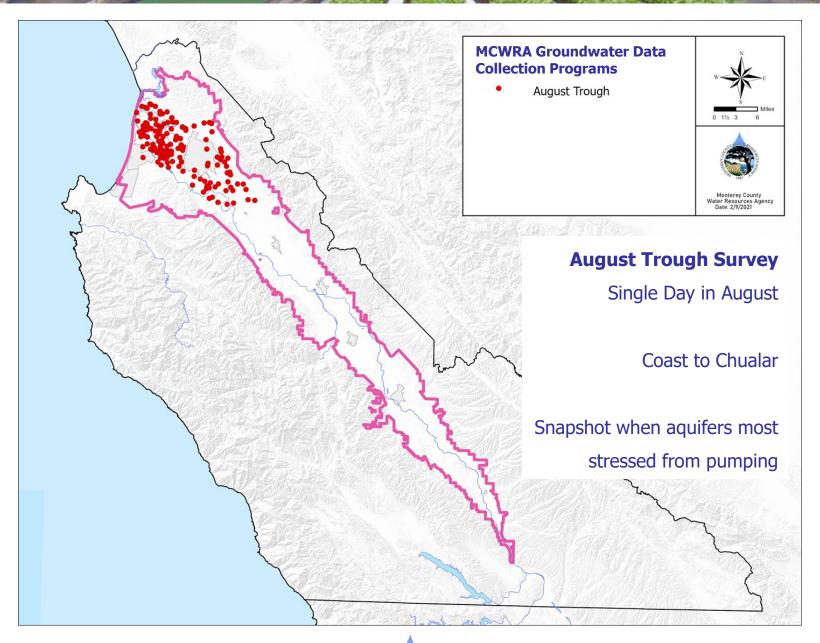
 Lines on a map representing equal lines of groundwater levels, or elevations relative to mean sea level



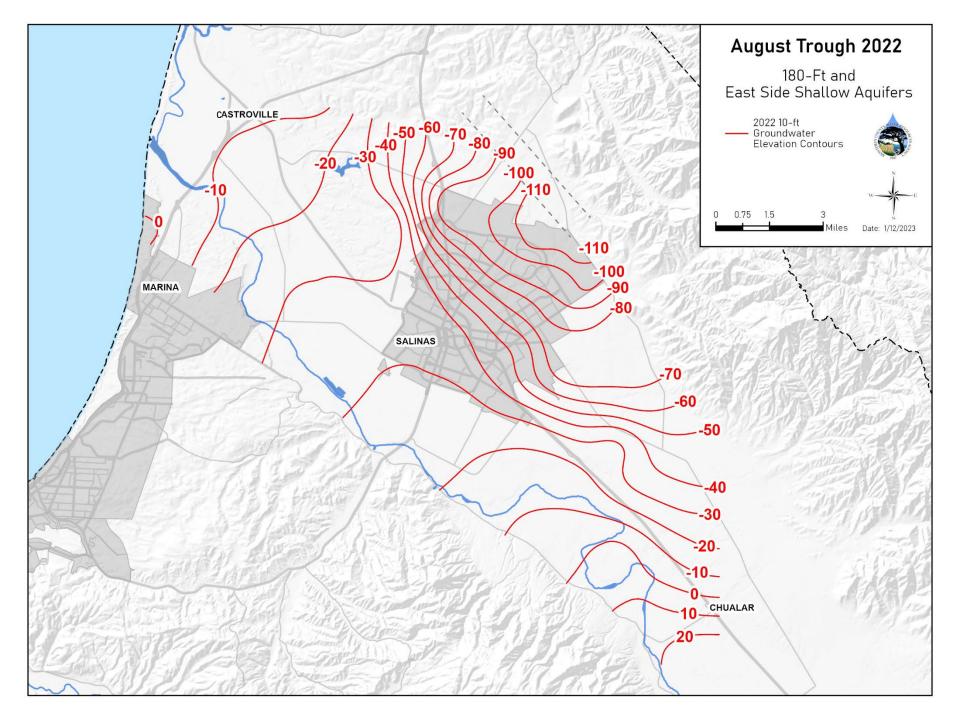


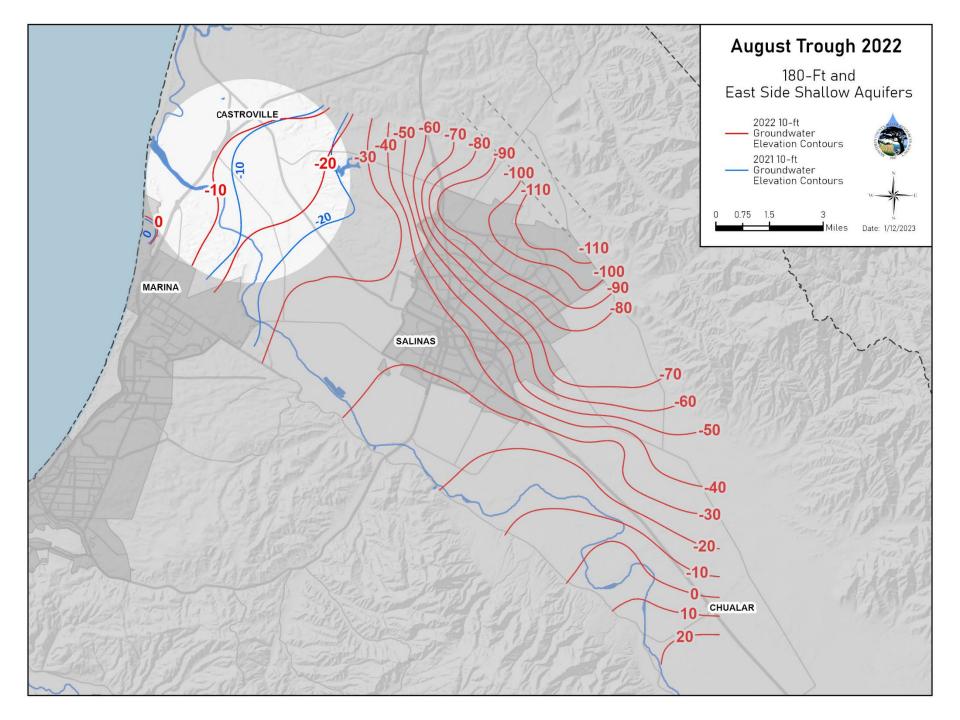
August 2022 Groundwater Level Contours

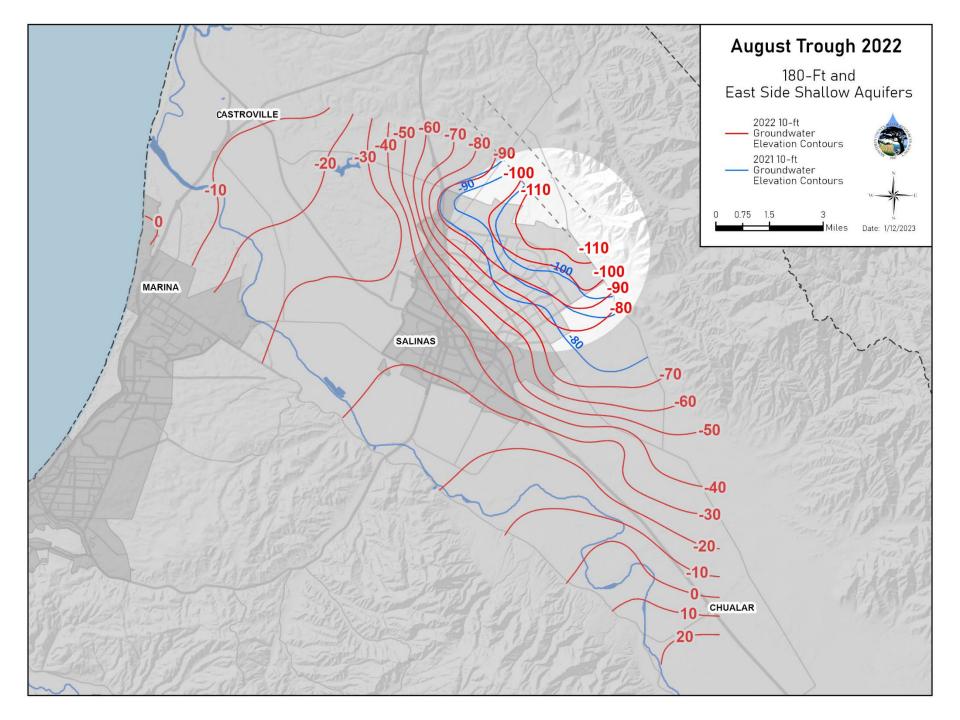


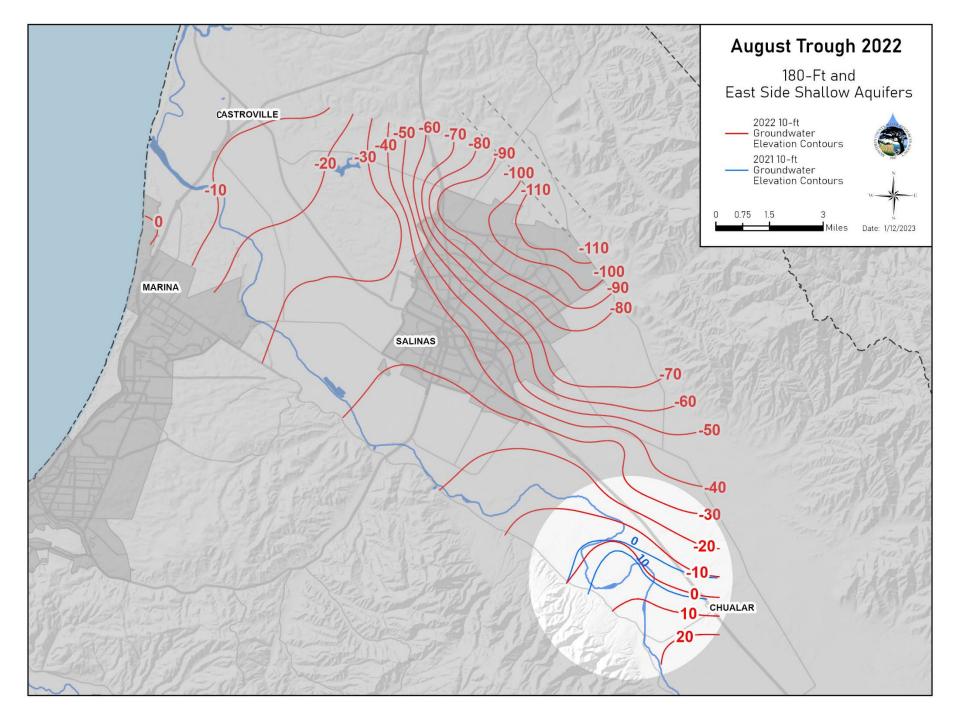


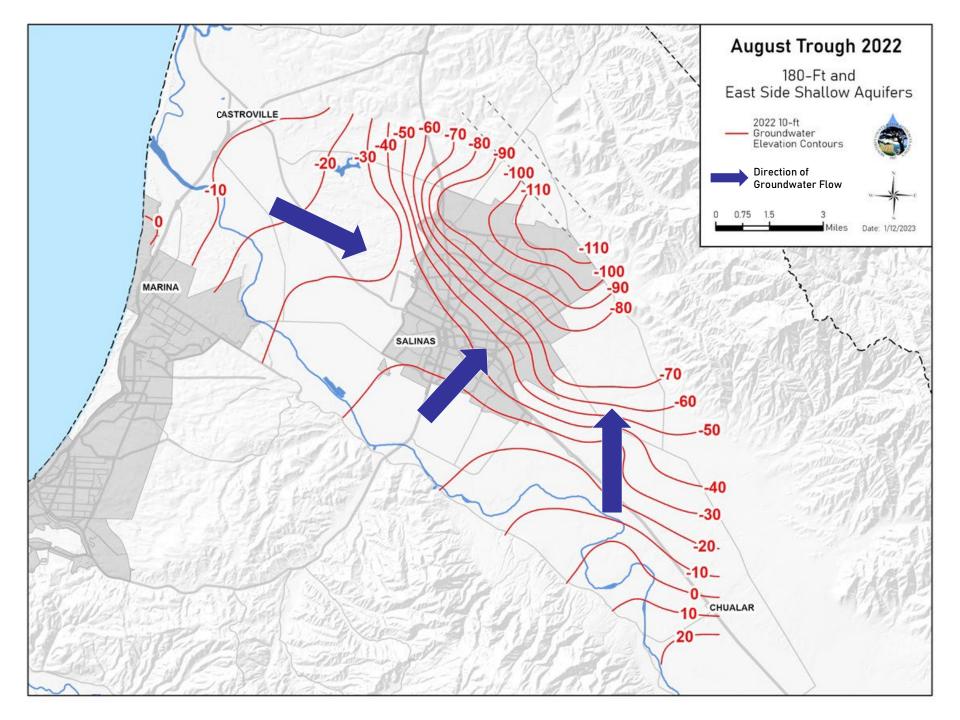


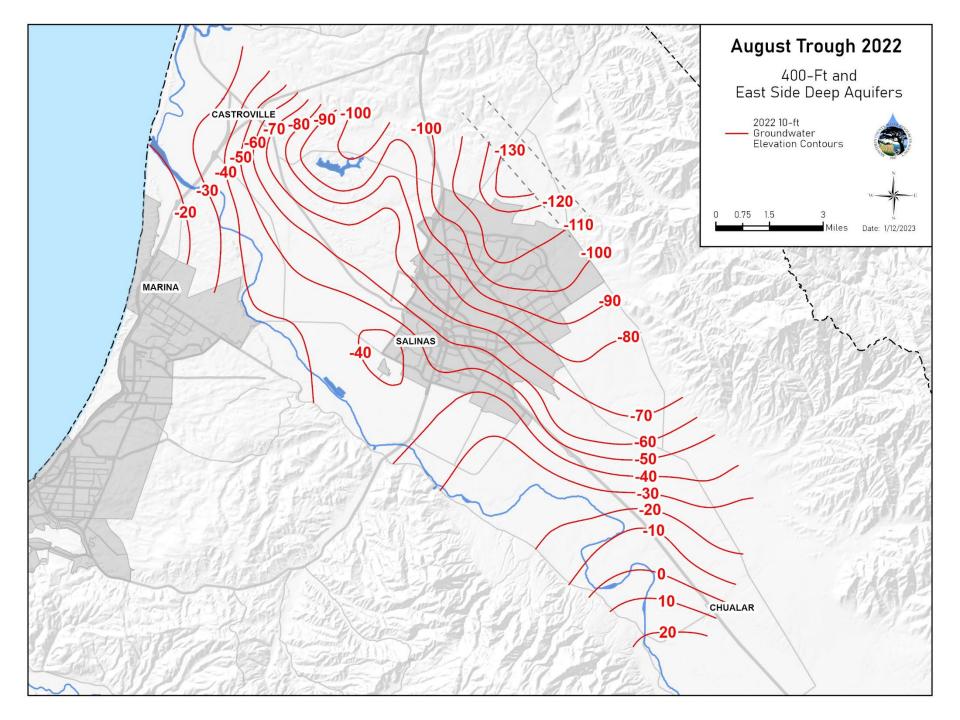


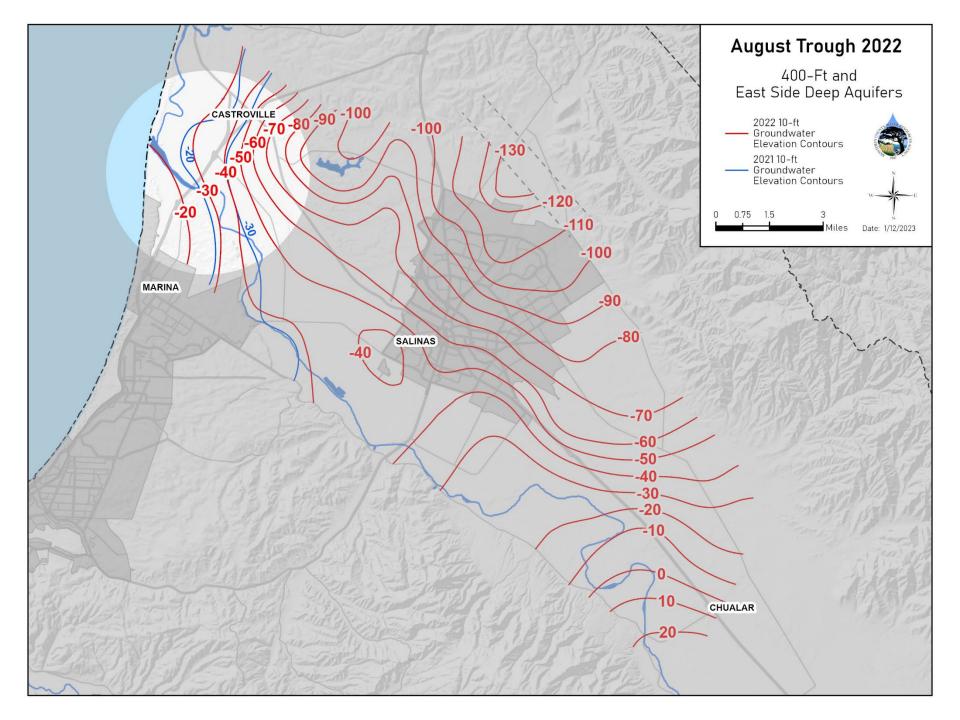


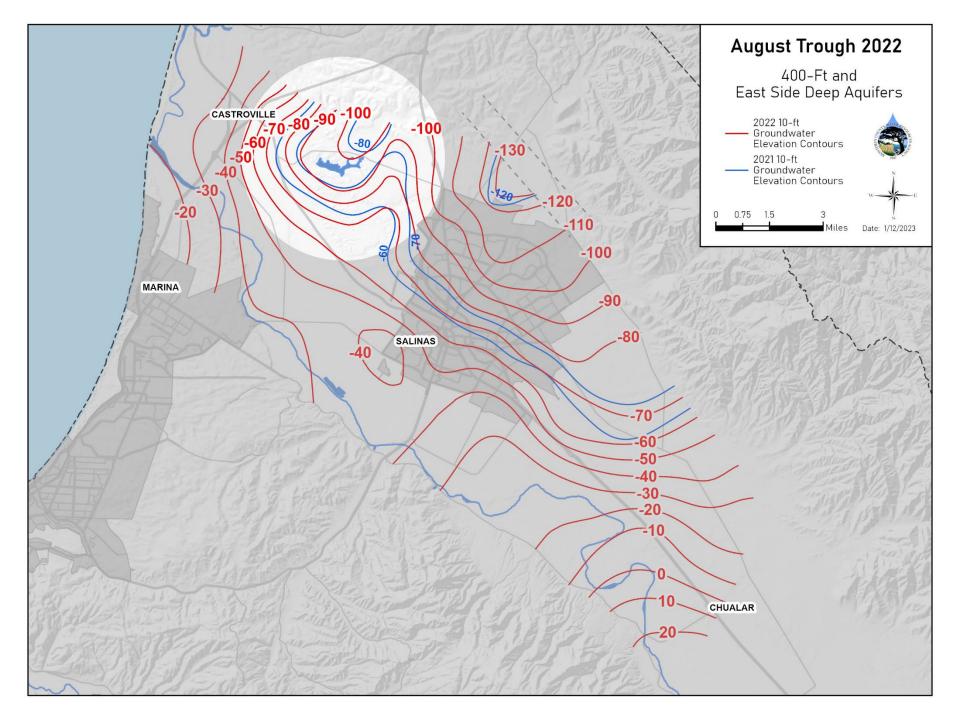


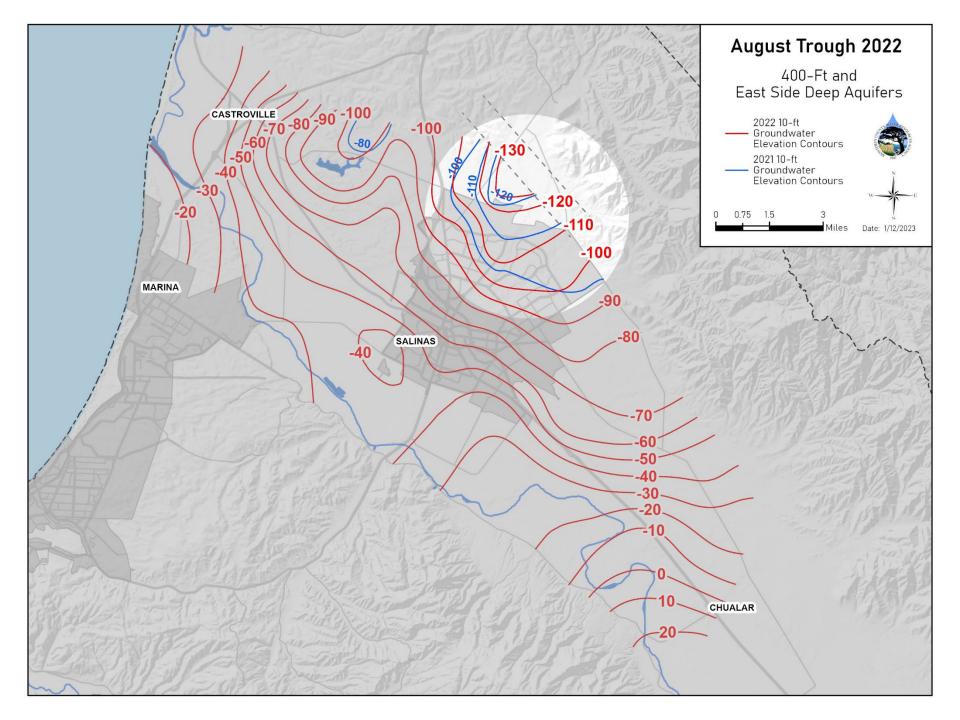


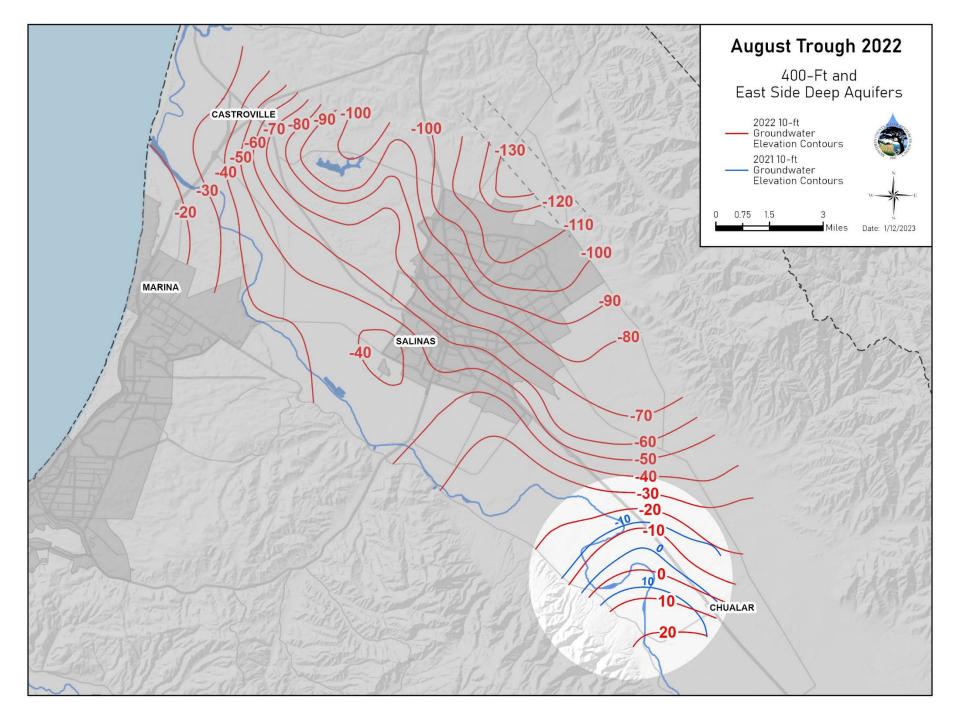


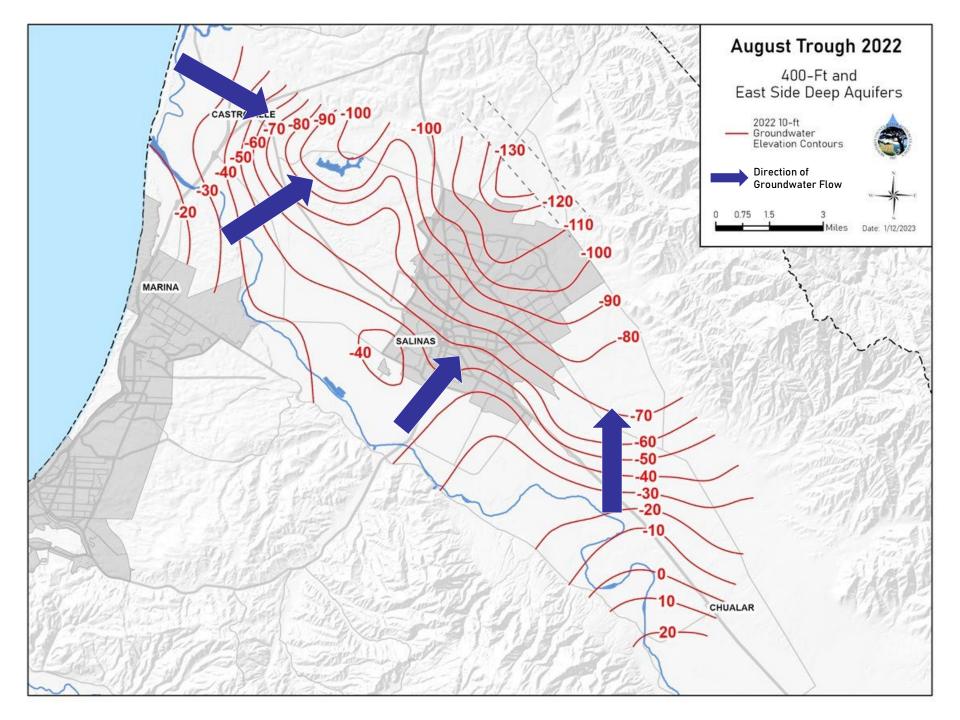












August 2022 Summary: Changes Since 2021

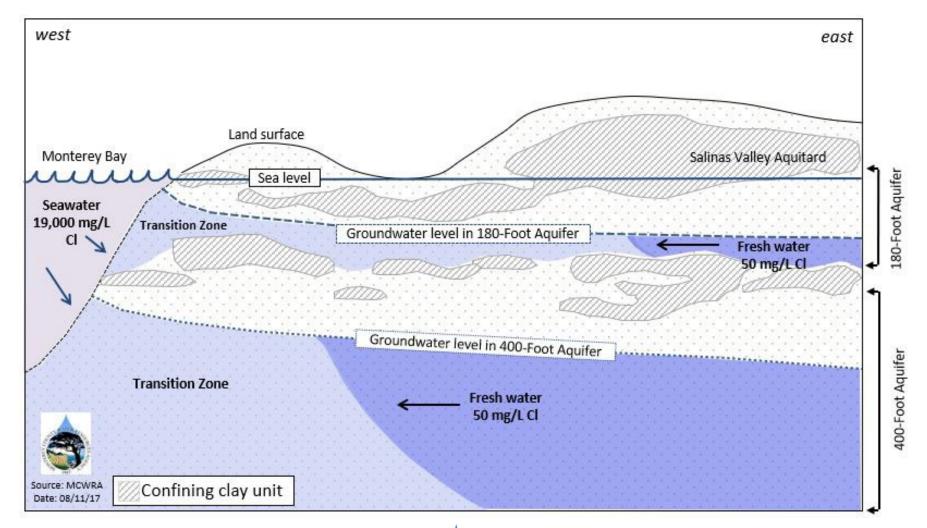
- 180-Ft Aquifer, East Side Shallow
 - Decline near coast of 2-4'
 - Deepening of East Side trough, and area north of Salinas by 10'
 - Decline in levels up valley of 4-12'
- 400-Ft Aquifer, East Side Deep
 - Declines at coast, ranging from 3-6' near river, -10 towards Castroville, and -25' north of Espinosa Lake
 - Deeping of East Side trough by 10'
 - Decline in levels up valley of 5-12'



2022 Seawater Intrusion Contours



Seawater Intrusion – Transition Zone

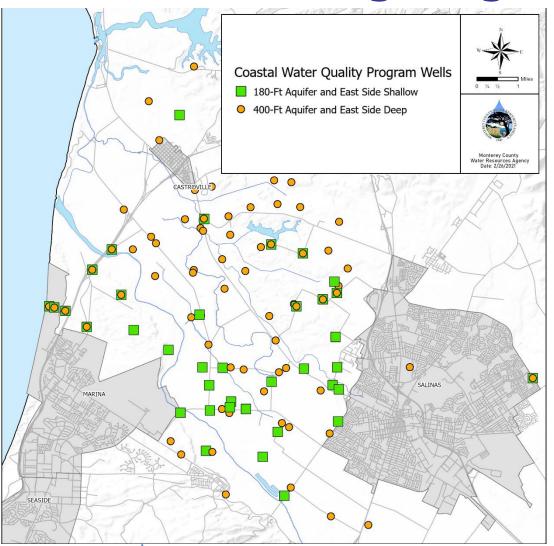




Seawater Intrusion – Monitoring Program

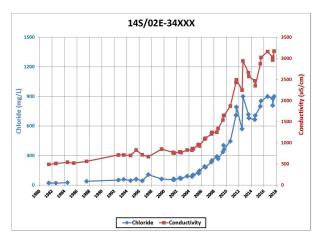
Groundwater Wells

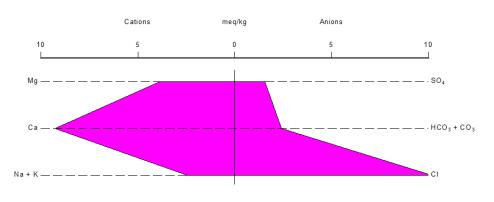
- Ag & Urban wells
- Dedicated monitoring wells
- Analyzed for Ag Waiver Panel (ELAP #1395)

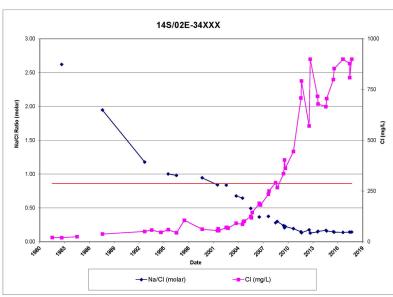


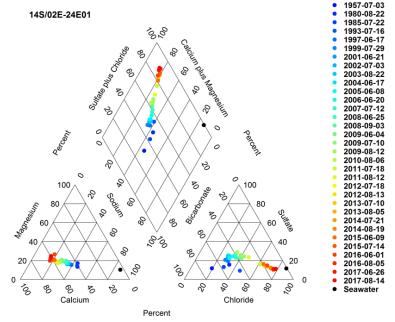


Seawater Intrusion – Data Analysis

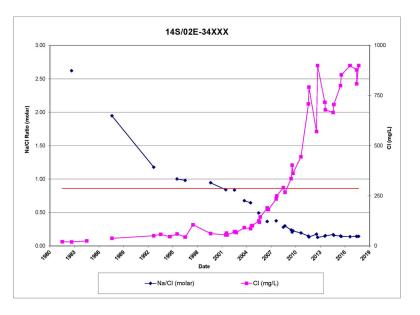




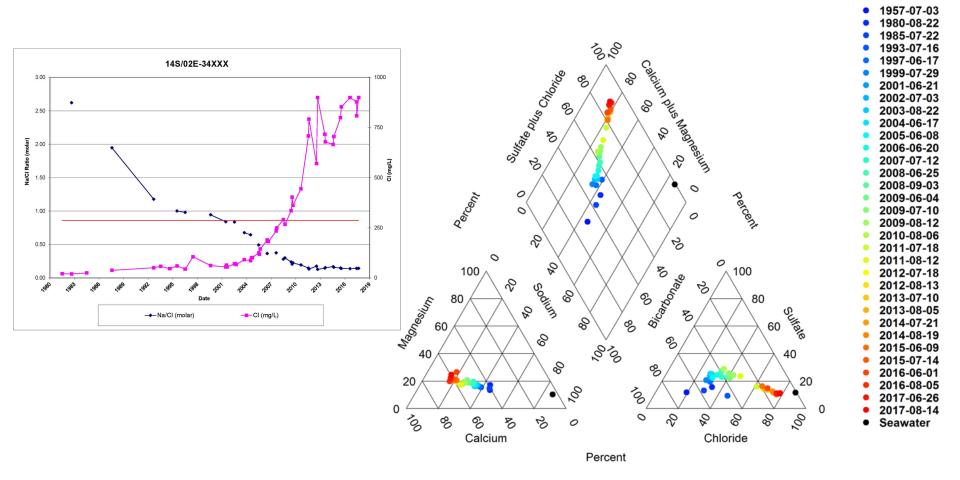




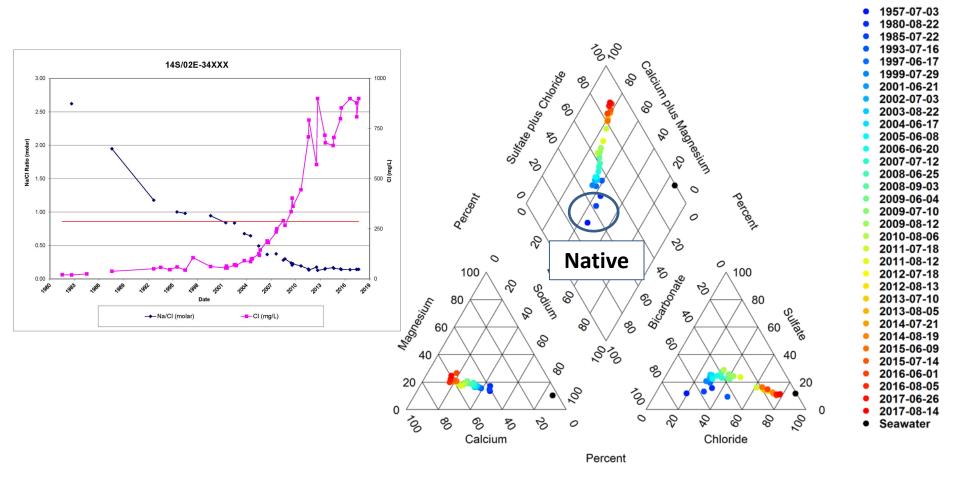




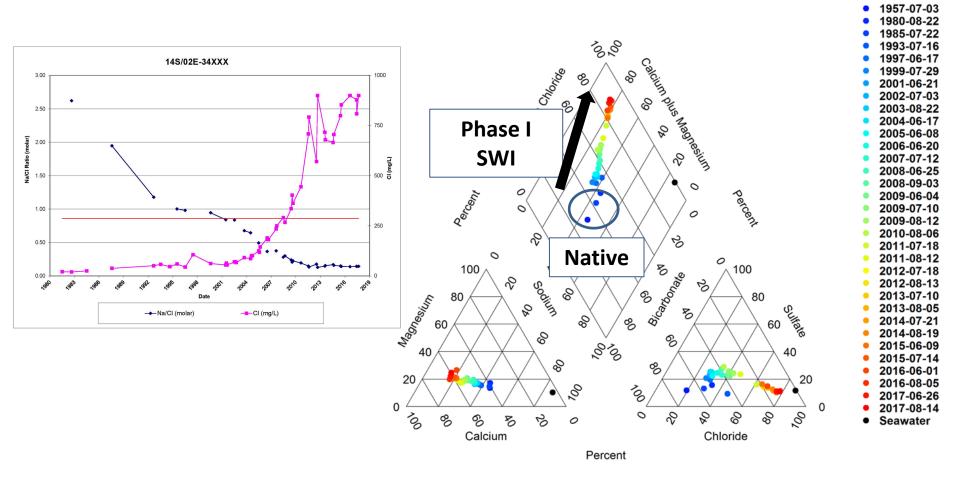




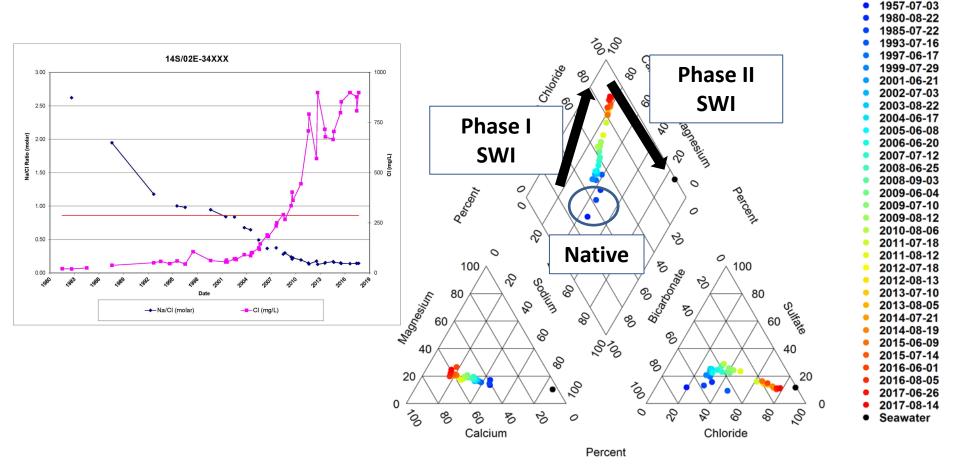












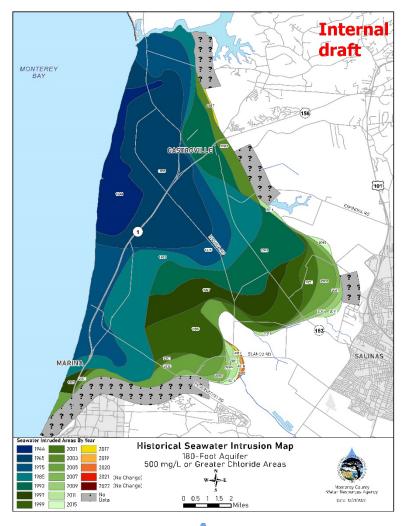


Seawater Intrusion – Data Analysis

- Data Development Process
 - ➤ Water Quality
 - ➤ Well Construction
 - ➤ Well Pumping Data
 - ➤ Groundwater Level Contours

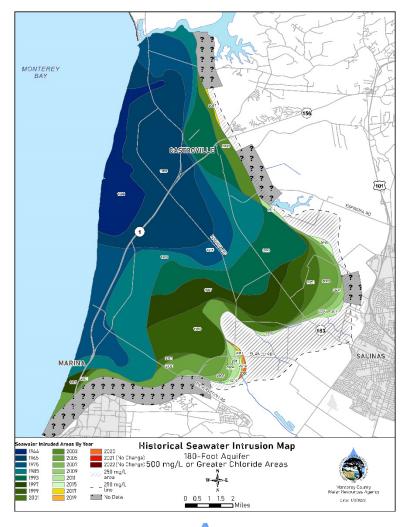


2022 180-Foot Aquifer 500 mg/L Chloride Areas



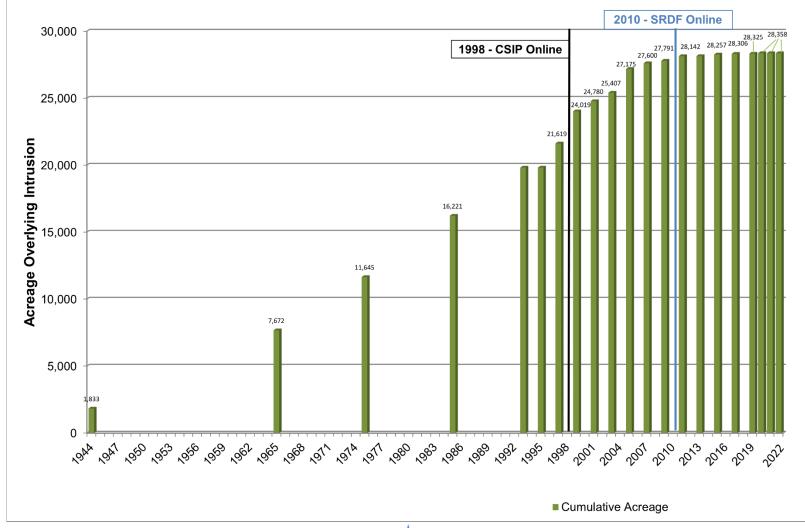


2022 180-Foot Aquifer 250 mg/L & 500 mg/L Chloride Areas



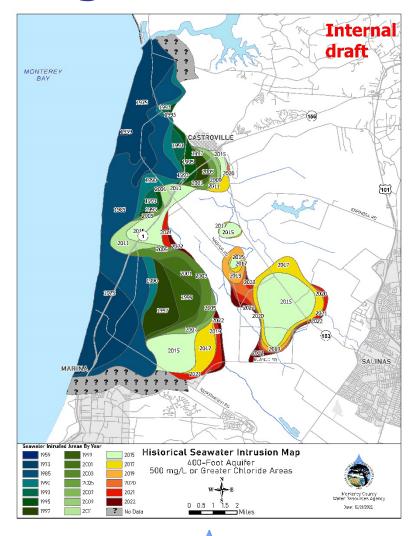


Acreage Overlying the 500 mg/L Chloride Contour 180-Foot Aquifer



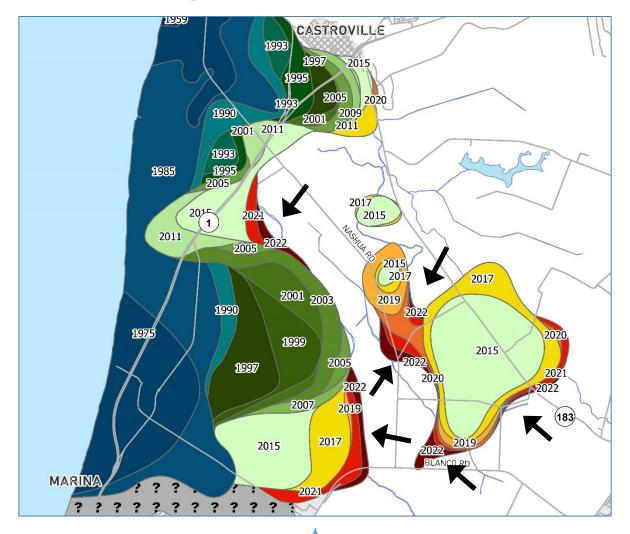


2022 400-Foot Aquifer 500 mg/L Chloride Areas



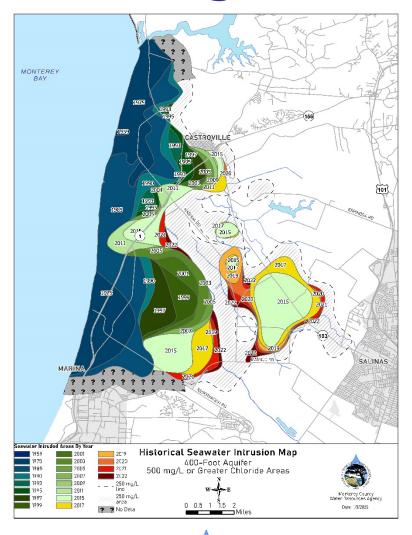


2022 400-Foot Aquifer 500 mg/L Chloride Areas



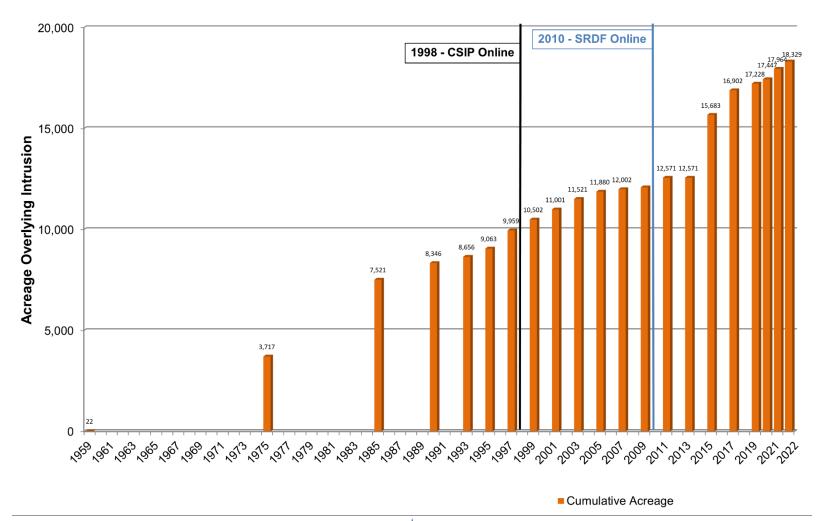


2022 400-Foot Aquifer 250 mg/L & 500 mg/L Chloride Areas





Acreage Overlying the 500 mg/L Chloride Contour 400-Foot Aquifer





Conclusion

180-Ft Aquifer Contours

 No Advancement from 2021 Contours

400-Ft Aquifer Contours

- Some Lateral Advancement – Middle and Southern Lobe
- Expansion of the Large Cl "Island" Continues
- Expansion at the "Arm" connecting Middle and Large Islands



Conclusion

Program Constraints

- Limitation of the Existing Monitoring Network
- Need for Additional Monitoring Techniques
- Need for More Data

Lack of Data Behind the Front



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Consider receiving the
2022 August Trough
Groundwater Level and
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