

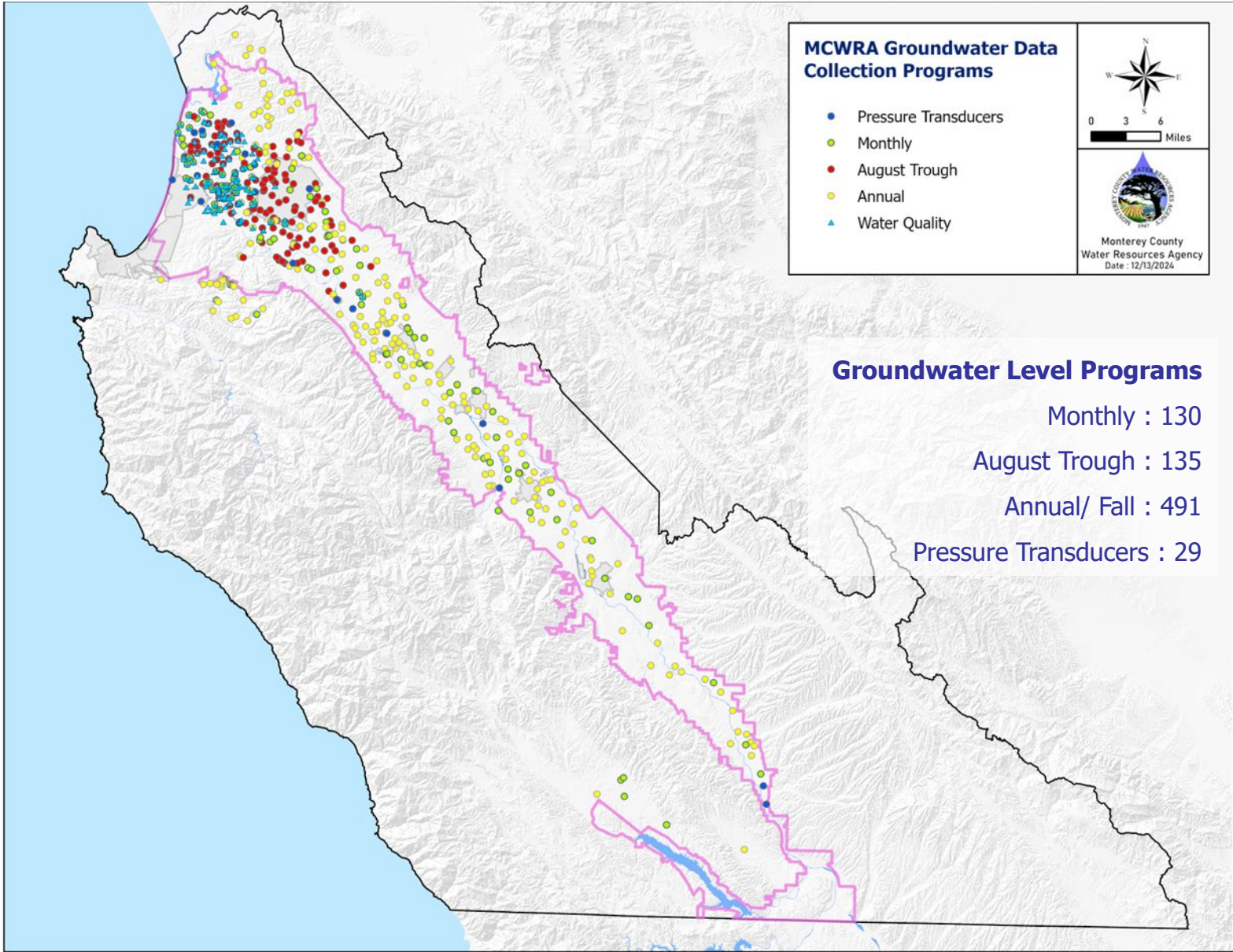


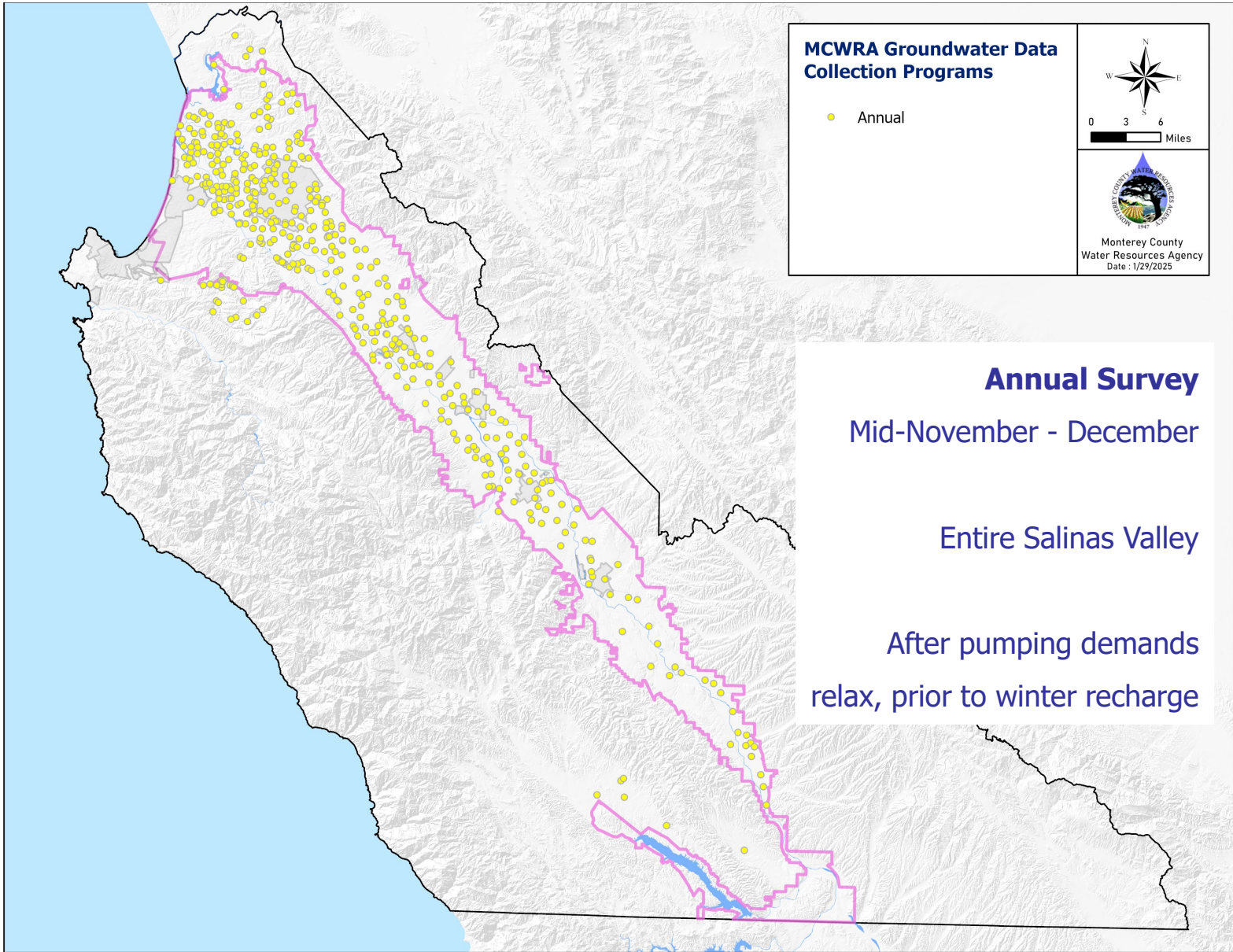
# Update on the 2024 Annual Groundwater Level Program



# Financial Impact/Strategic Plan

- Basin Management Advisory Committee gets this report every year
- Activities associated with this program are funded by Funds 111 and 116, and are included in each year's budget
- 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






**MCWRA Groundwater Data Collection Programs**

- Annual

0 3 6 Miles

  
 Monterey County  
 Water Resources Agency  
 Date : 1/29/2025

**Annual Survey**  
 Mid-November - December

Entire Salinas Valley

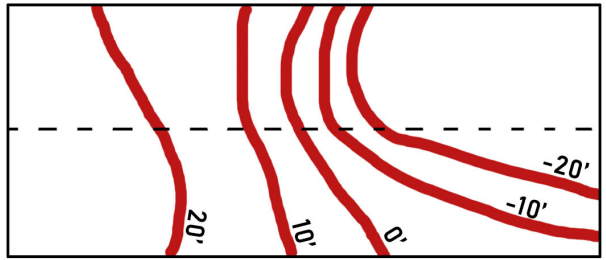
After pumping demands  
 relax, prior to winter recharge



# What are Groundwater Elevation Contours?

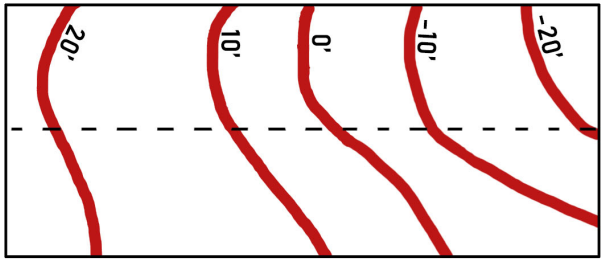
- Lines on a map representing equal lines of groundwater levels, or elevations relative to mean sea level

Lines closer together

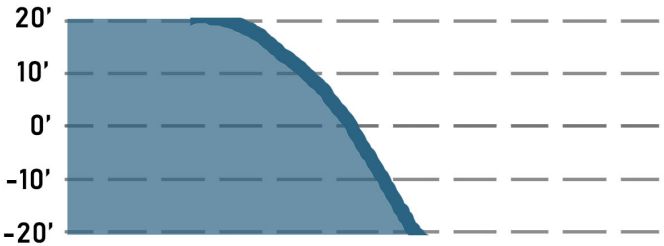


Map View

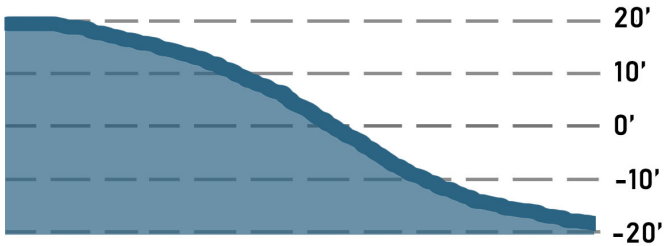
Lines further apart



Side View



Steep Groundwater Gradient



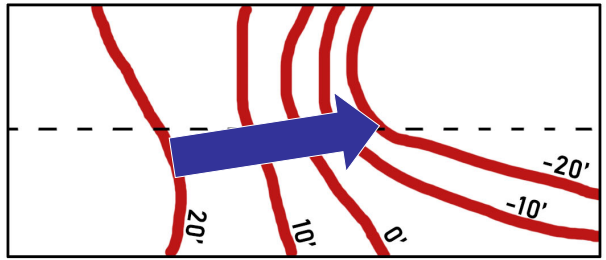
Gentle Groundwater Gradient



# What are Groundwater Elevation Contours?

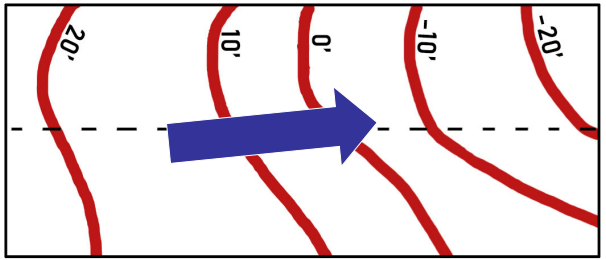
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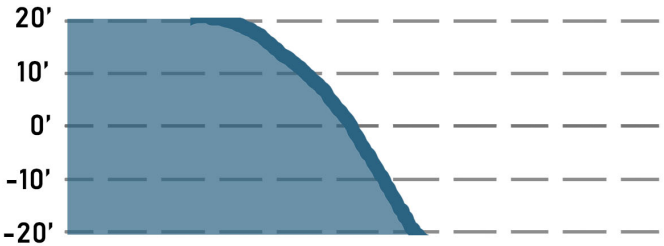


Map View

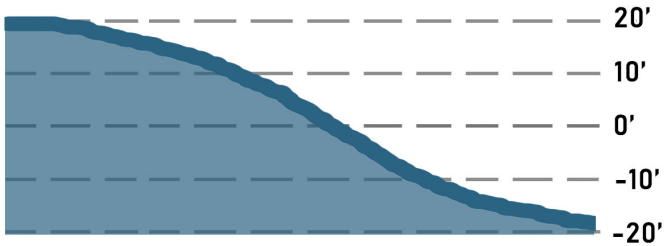
Lines further apart



Side View



Steep Groundwater Gradient



Gentle Groundwater Gradient





# Annual 2024 Groundwater Level Contours

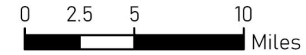


# Salinas Valley Basin Annals 2024

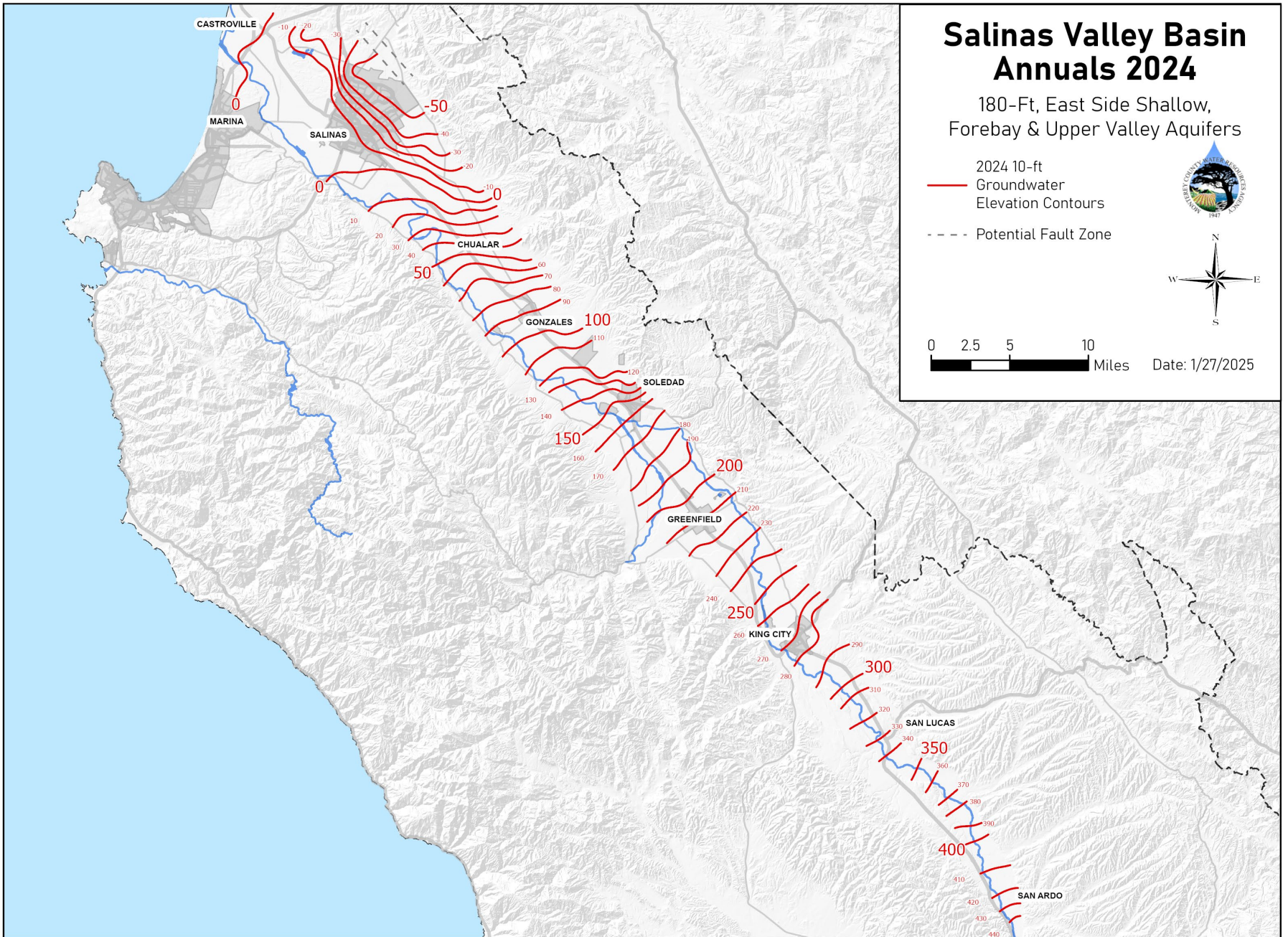
180-Ft, East Side Shallow,  
Forebay & Upper Valley Aquifers

2024 10-ft  
Groundwater  
Elevation Contours

- - - Potential Fault Zone



Date: 1/27/2025



Note: These groundwater contours represent a regional-scale approximation of the groundwater surface, based on available hydrogeological data, illustrating general groundwater flow patterns. They should not be interpreted as precise or localized features.



# Salinas Valley Basin Annuals 2024

180-Ft, East Side Shallow,  
Forebay & Upper Valley Aquifers

2024 10-ft  
Groundwater  
Elevation Contours

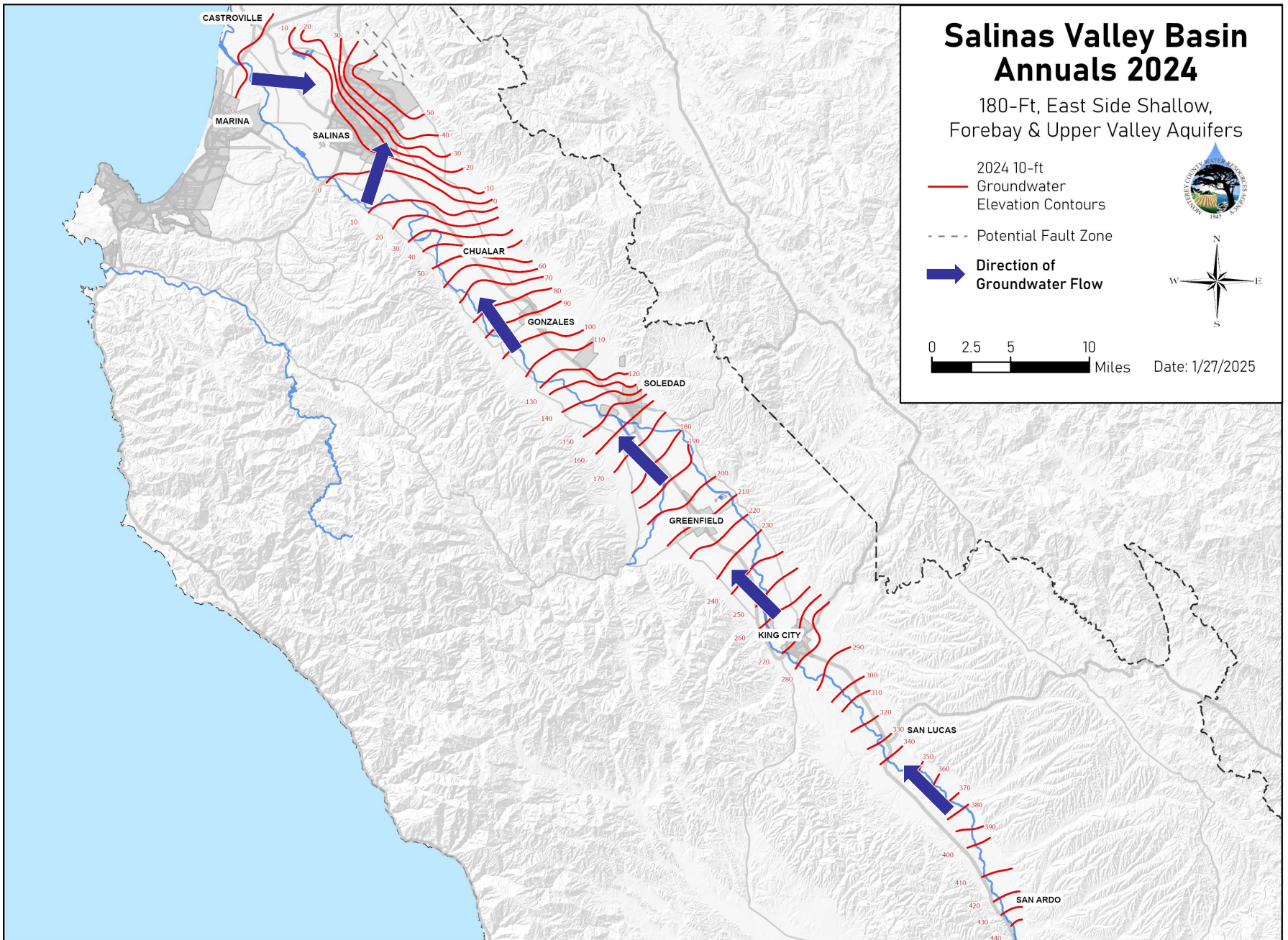
- - - Potential Fault Zone

➔ Direction of  
Groundwater Flow



0 2.5 5 10  
Miles

Date: 1/27/2025



Note: These groundwater contours represent a regional-scale approximation of the groundwater surface, based on available hydrogeological data, illustrating general groundwater flow patterns. They should not be interpreted as precise or localized features.

# Salinas Valley Basin Annuals 2024

400-foot and East Side Deep  
Aquifers

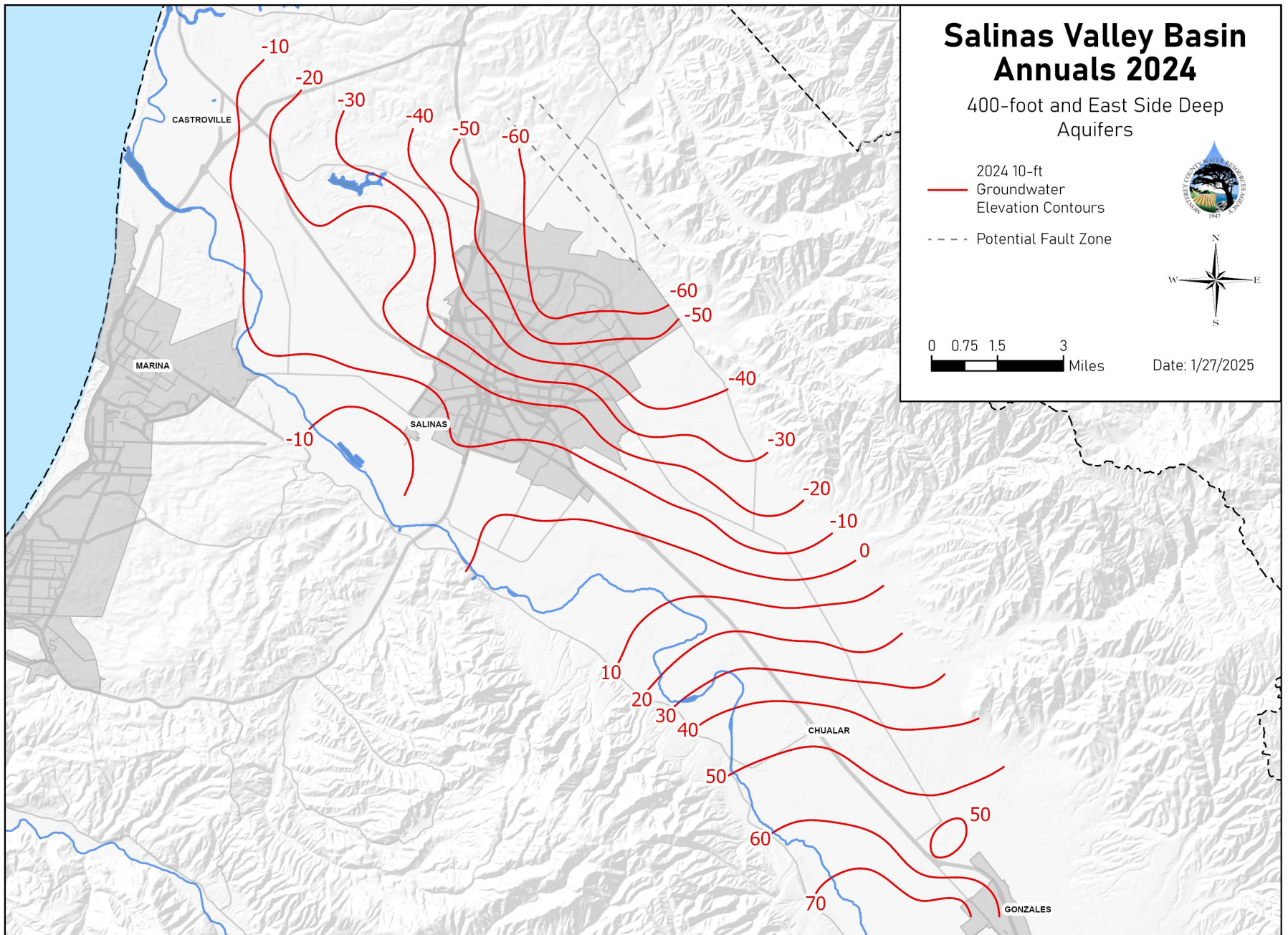
— 2024 10-ft  
Groundwater  
Elevation Contours

- - - Potential Fault Zone



0 0.75 1.5 3  
Miles

Date: 1/27/2025

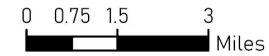
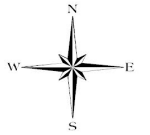


Note: These groundwater contours represent a regional-scale approximation of the groundwater surface, based on available hydrogeological data, illustrating general groundwater flow patterns. They should not be interpreted as precise or localized features.

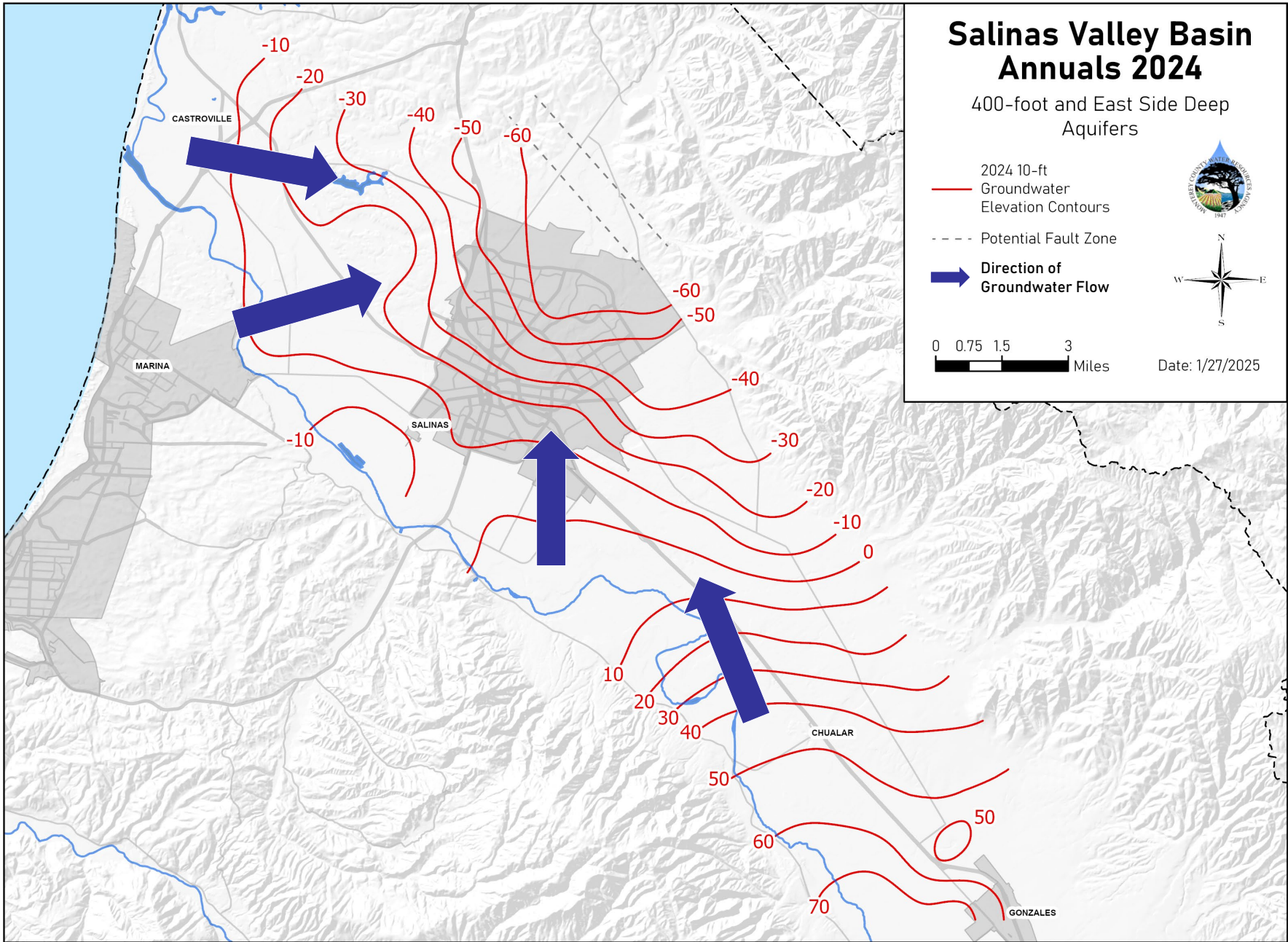
# Salinas Valley Basin Annuals 2024

400-foot and East Side Deep  
Aquifers

- 2024 10-ft Groundwater Elevation Contours
- - - Potential Fault Zone
- ➔ Direction of Groundwater Flow



Date: 1/27/2025



Note: These groundwater contours represent a regional-scale approximation of the groundwater surface, based on available hydrogeological data, illustrating general groundwater flow patterns. They should not be interpreted as precise or localized features.

# Annual 2024 Summary: Changes Since 2023

- 180-Ft Aquifer, East Side Shallow, Forebay, Upper Valley
  - Increase near coast of 0-2'
  - Overall rise in the East Side trough and the area north of Salinas by 1-10 feet
  - Overall increase in elevations of 2-5' between Salinas and Greenfield, and 1-2' between Greenfield and San Lucas
  - South of San Lucas, levels similar to last year
  - Localized decreases throughout the valley
- 400-Ft Aquifer, East Side Deep
  - Increase near coast of 1-3'
  - Overall rise in the East Side trough and the area north of Salinas by 1-8 feet.
  - Increase in elevations up valley of 1-5'
  - Localized decreases

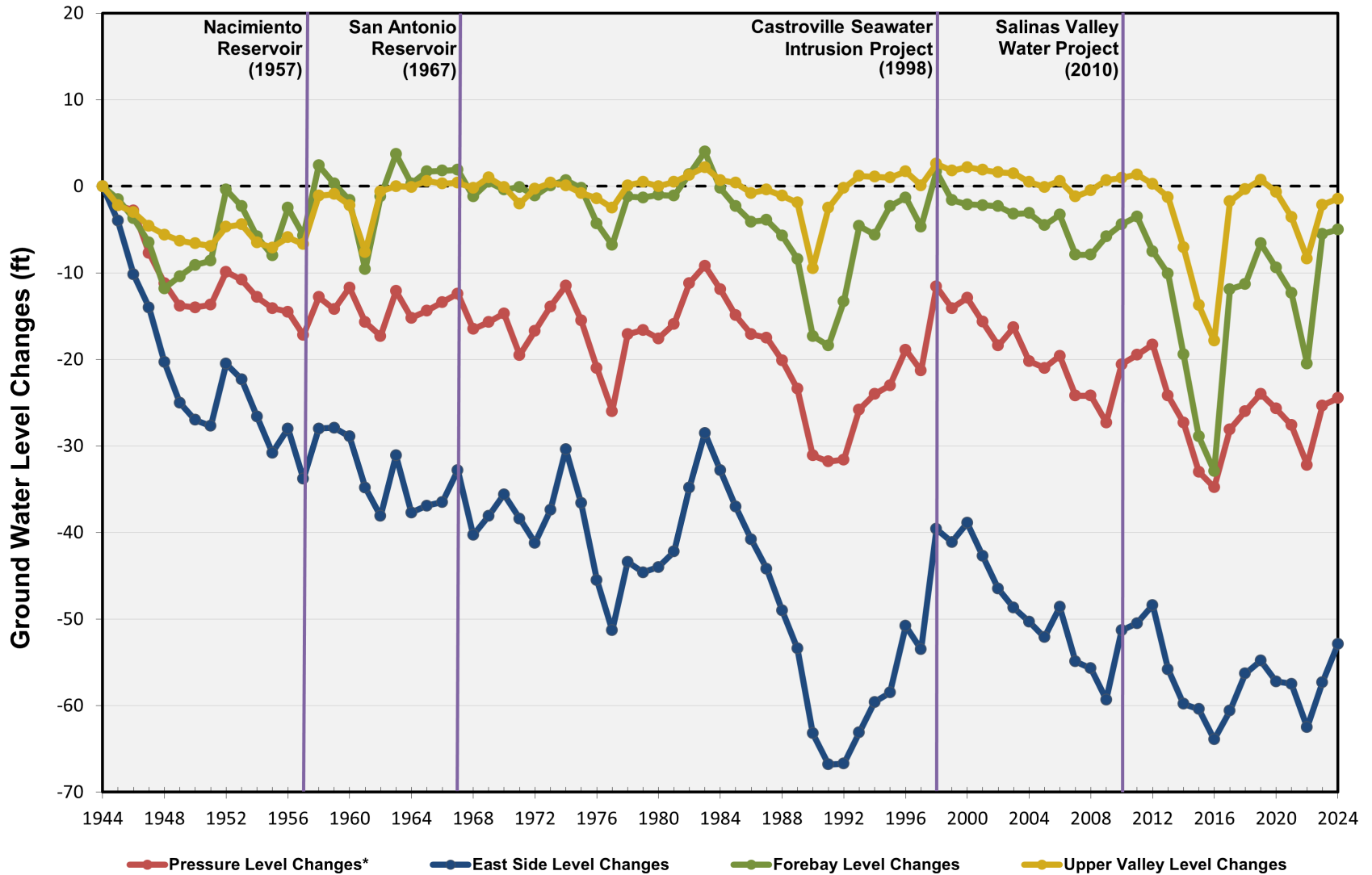


# Cumulative Change Chart

- Cumulative summary of the average annual change, for each subarea
- Groundwater storage changes and trends since 1944

# Salinas Valley Groundwater Level Changes

## 1944 - 2024 Average Annual Groundwater Level Changes

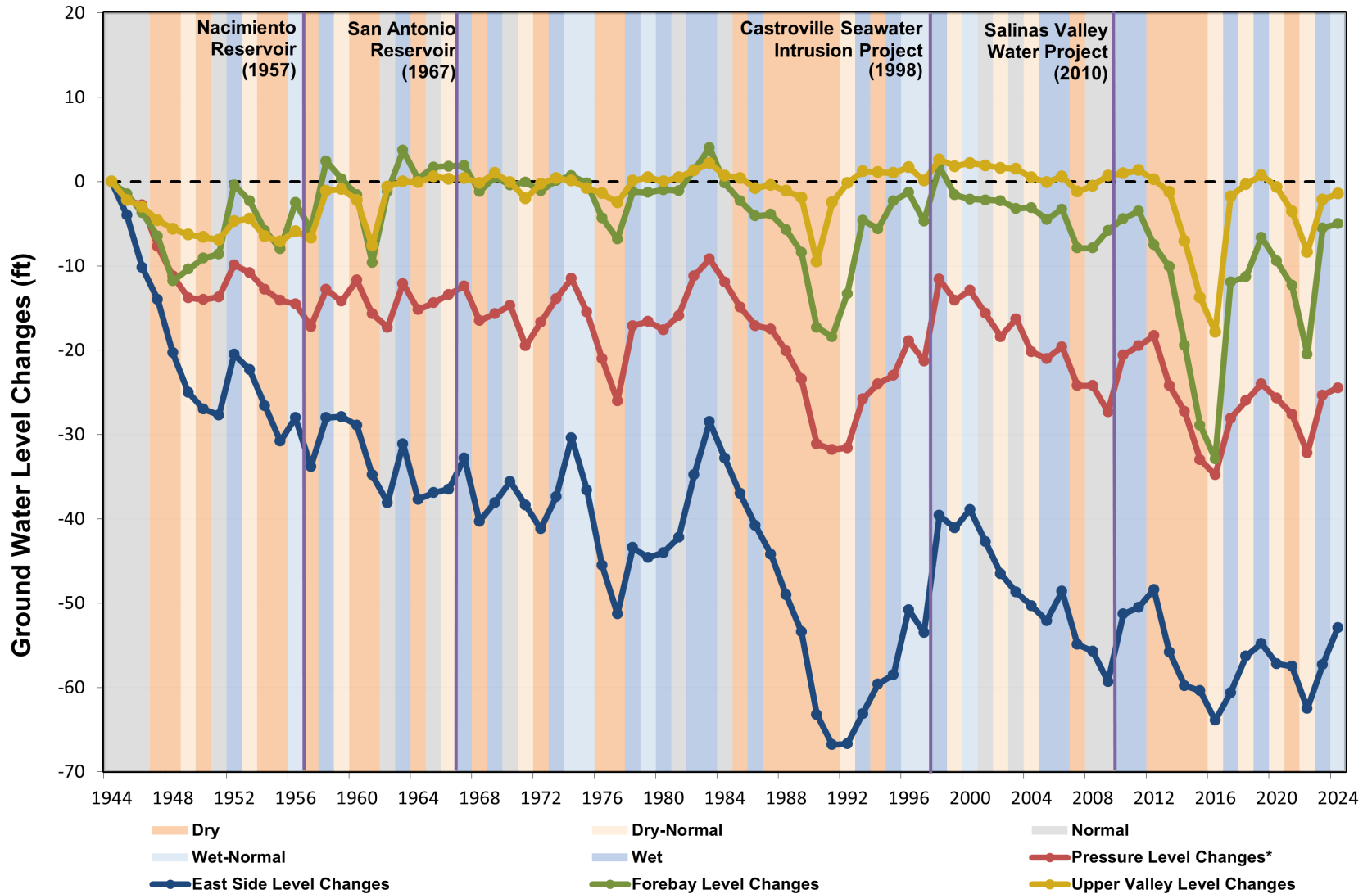


\*Level Changes for the Pressure subarea are calculated using a weighted average between the 180-Ft and 400-Ft Aquifers.



# Salinas Valley Groundwater Level Changes

## 1944 - 2024 Average Annual Groundwater Level Changes



\*Level Changes for the Pressure subarea are calculated using a weighted average between the 180-Ft and 400-Ft Aquifers.

