





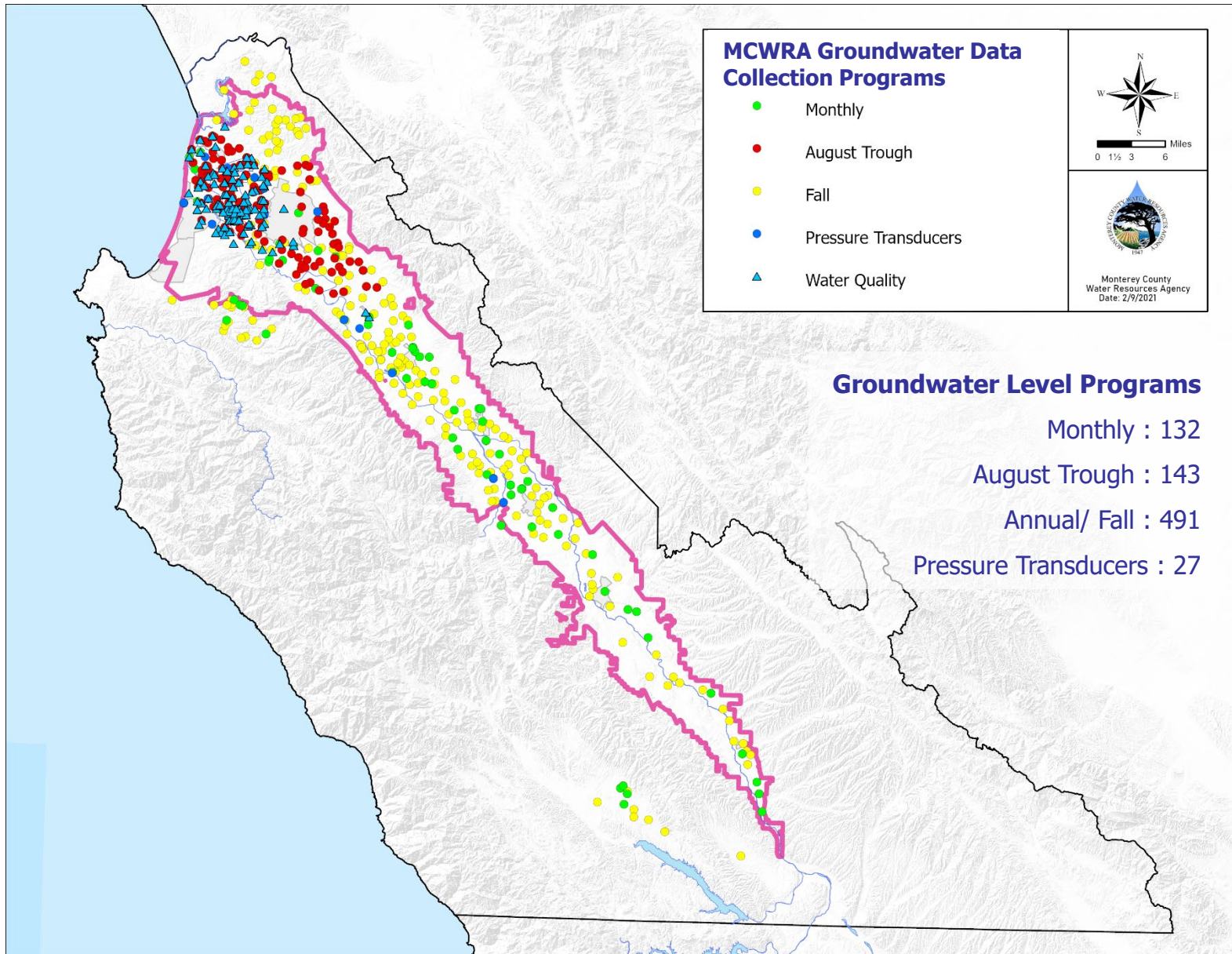
Update on the 2023 August Trough Groundwater Level Program



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

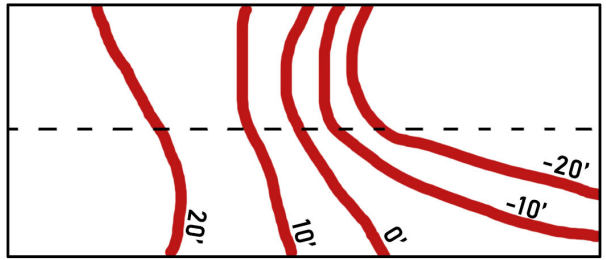




What are Groundwater Elevation Contours?

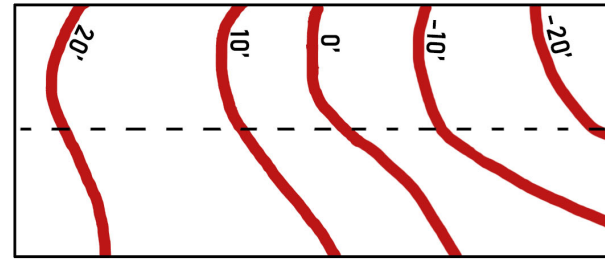
- Lines on a map representing equal lines of groundwater levels, or elevations relative to mean sea level

Lines closer together

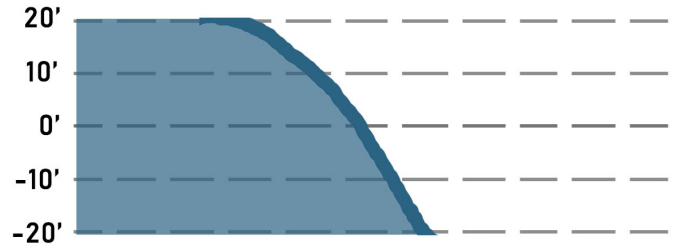


Map View

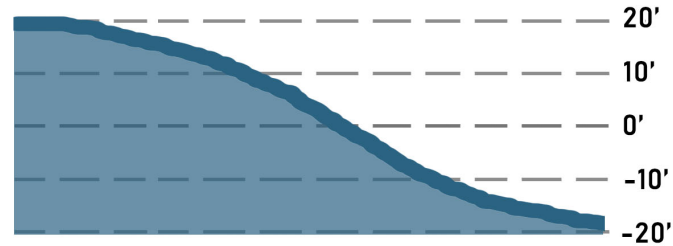
Lines further apart



Side View



Steep Groundwater Gradient



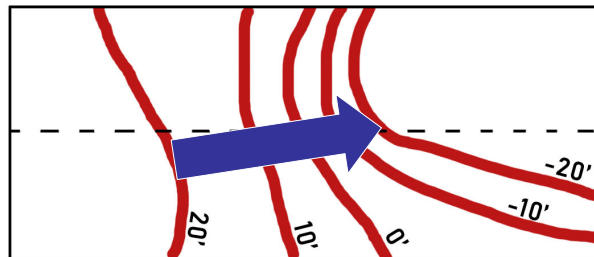
Gentle Groundwater Gradient



What are Groundwater Level Contours?

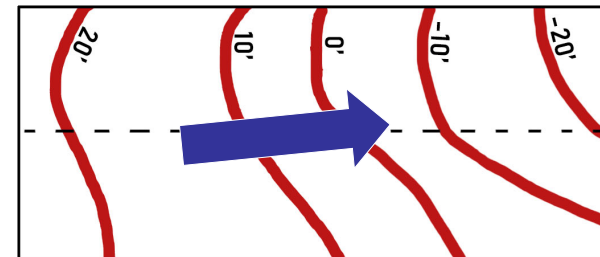
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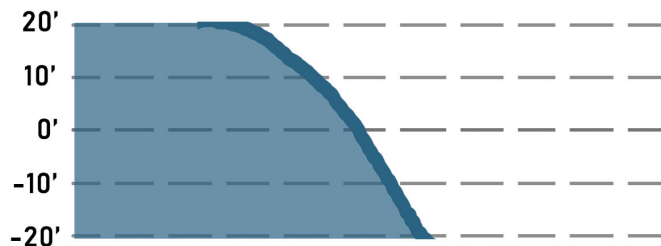


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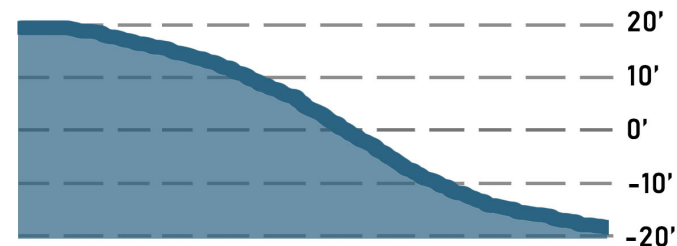
Lines further apart



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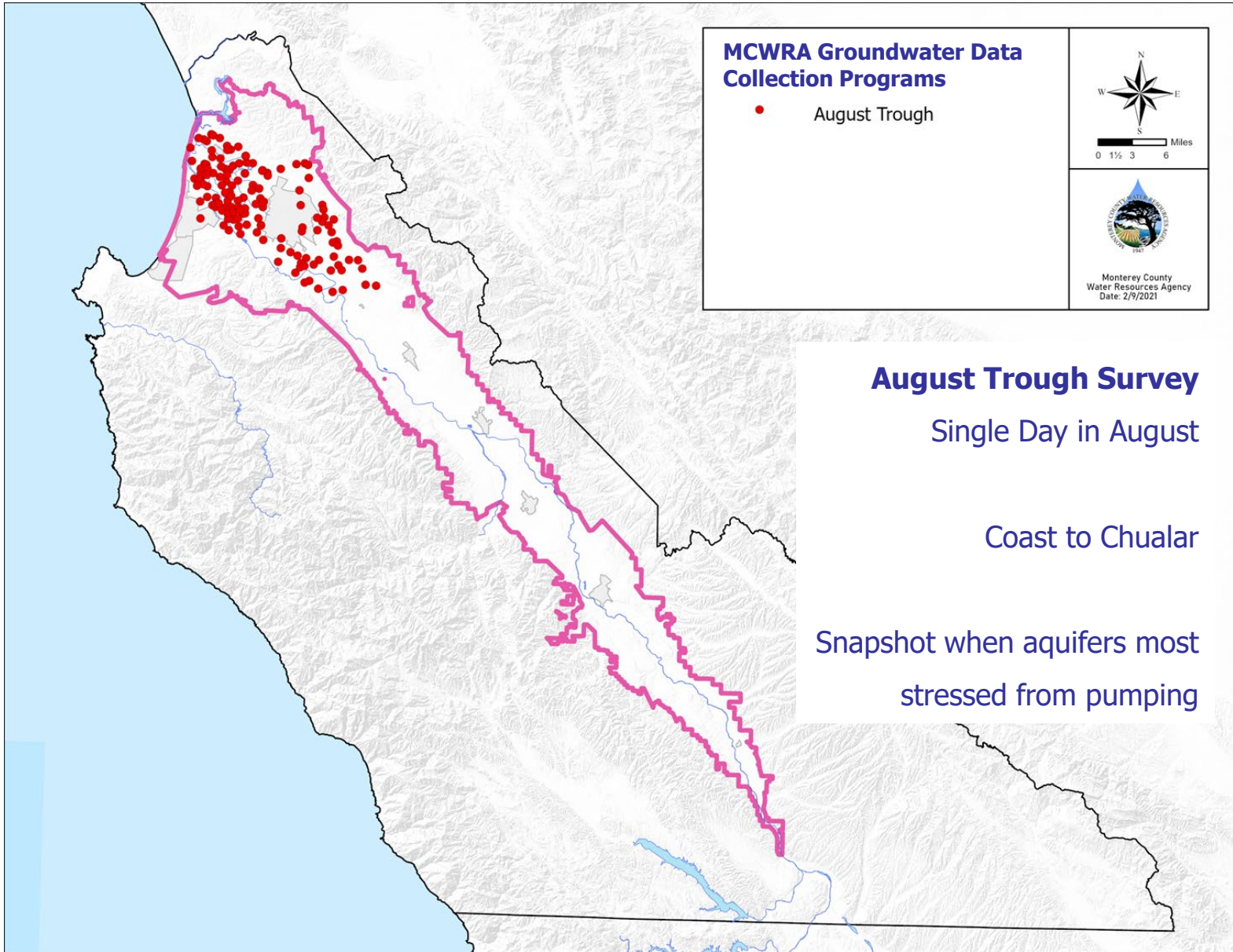
Gentle Groundwater Gradient





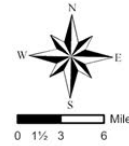
August 2023 Groundwater Level Contours





MCWRA Groundwater Data Collection Programs

● August Trough



Monterey County
Water Resources Agency
Date: 2/9/2021

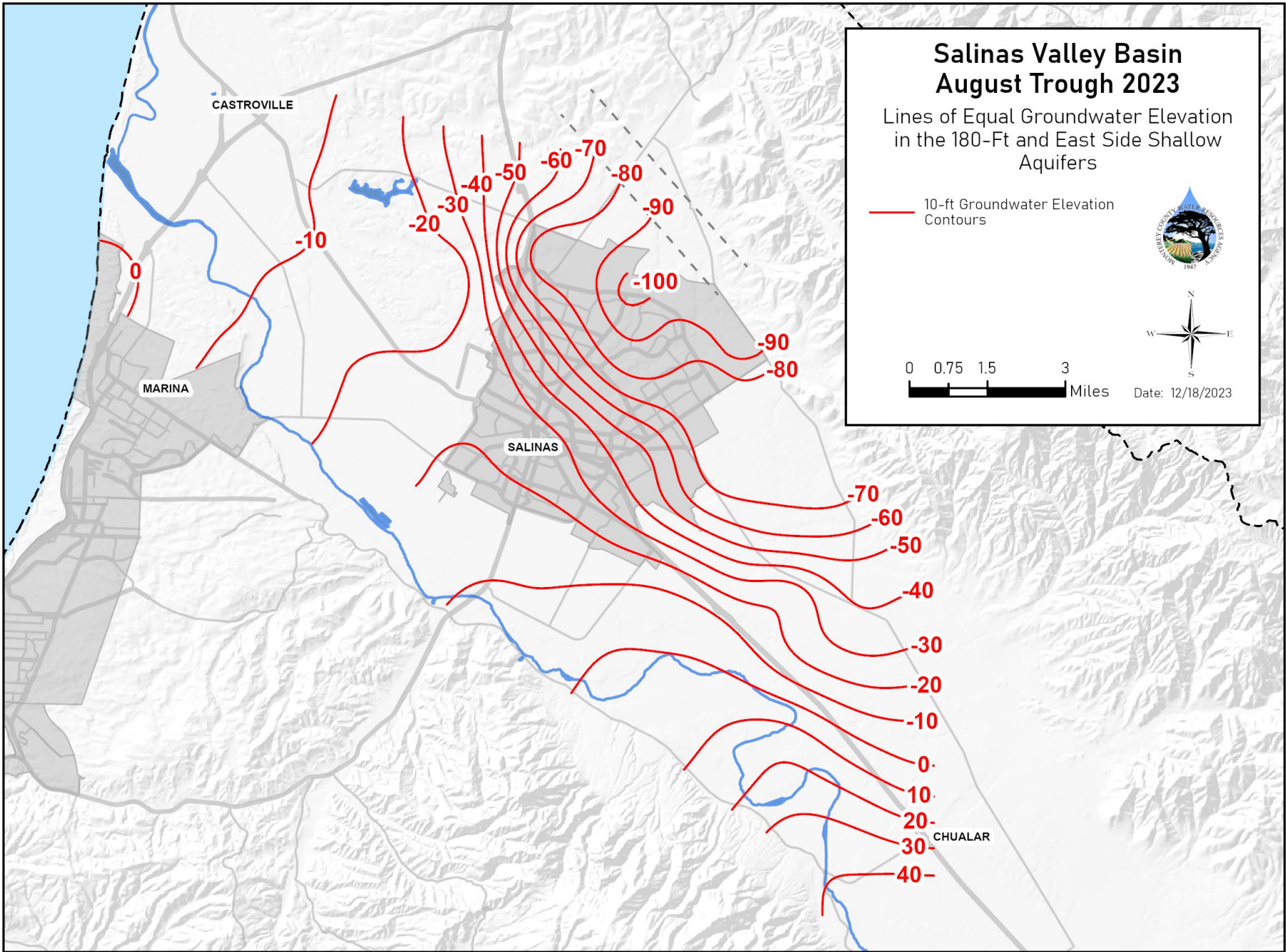
August Trough Survey

Single Day in August

Coast to Chualar

Snapshot when aquifers most stressed from pumping





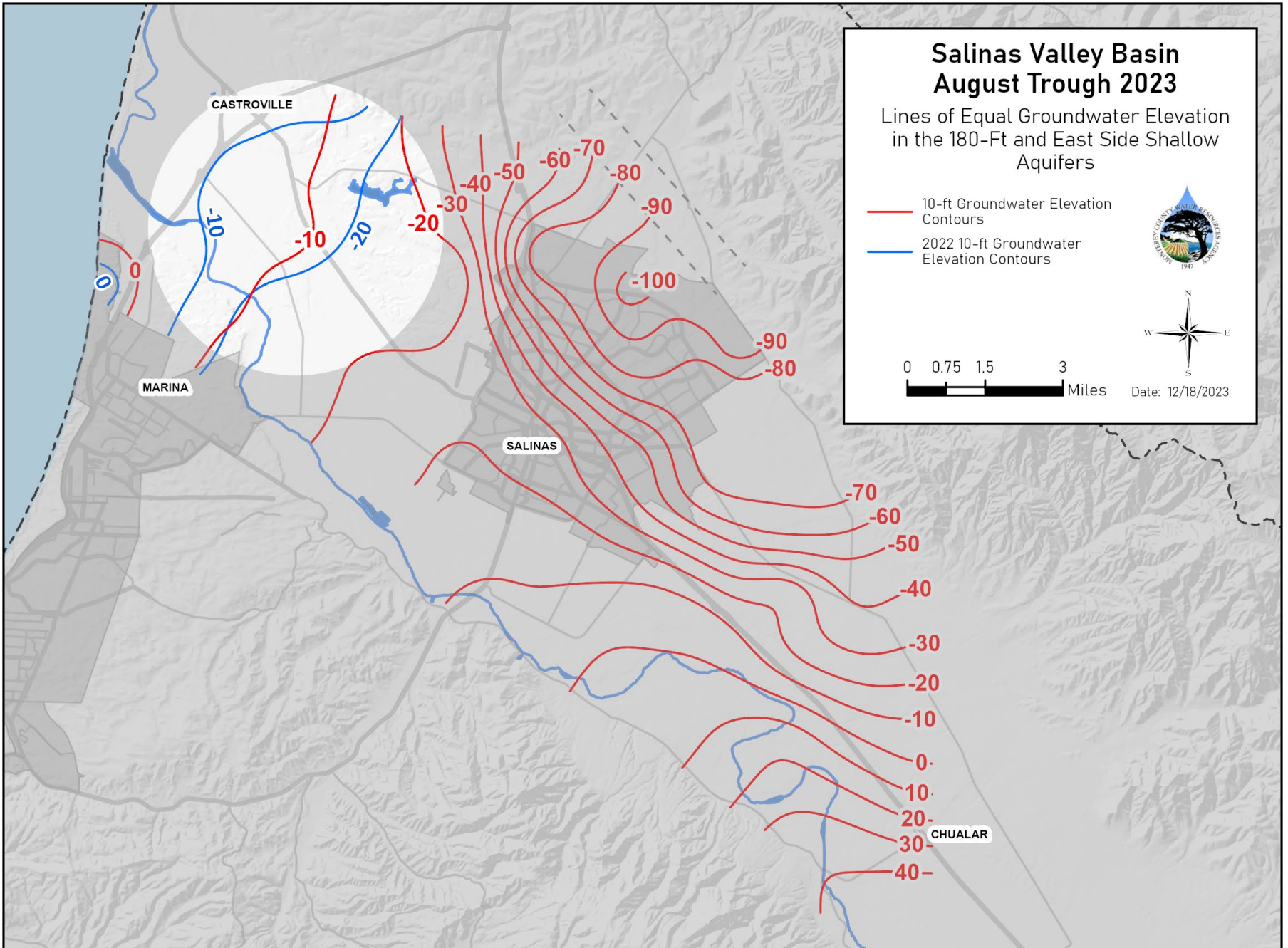
Salinas Valley Basin August Trough 2023

Lines of Equal Groundwater Elevation
in the 180-Ft and East Side Shallow
Aquifers

- 10-ft Groundwater Elevation Contours
- 2022 10-ft Groundwater Elevation Contours



Date: 12/18/2023



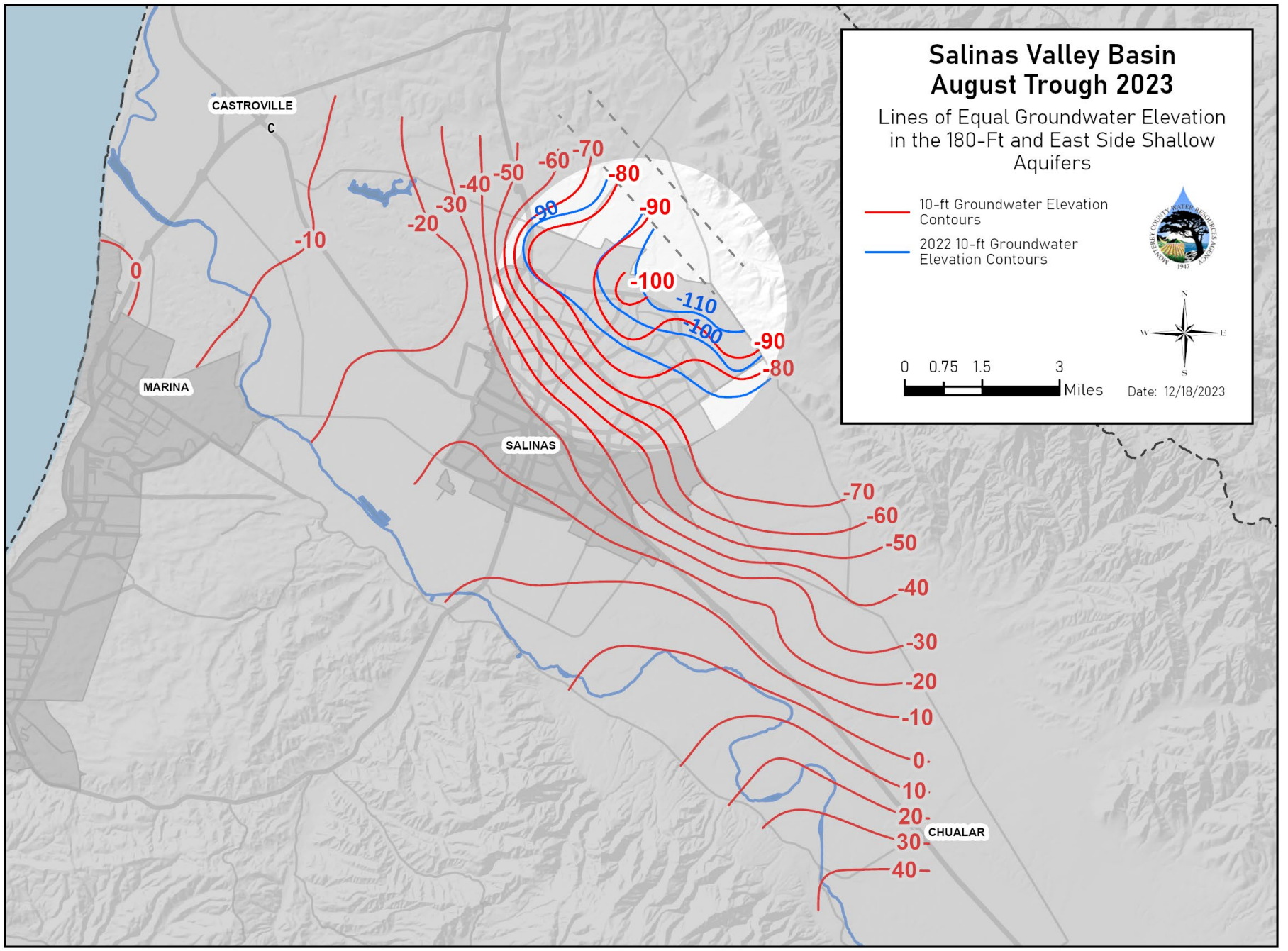
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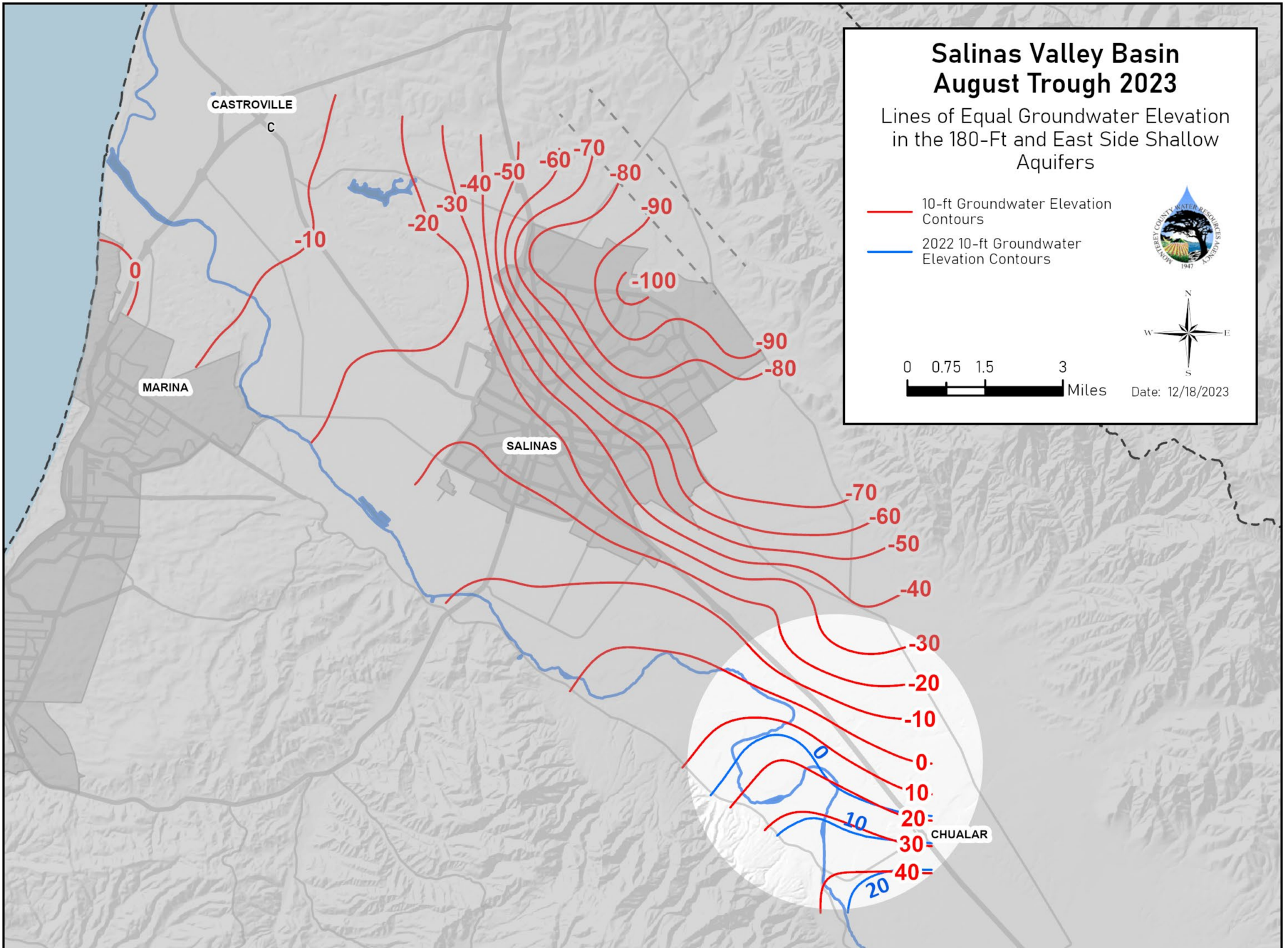
Salinas Valley Basin August Trough 2023

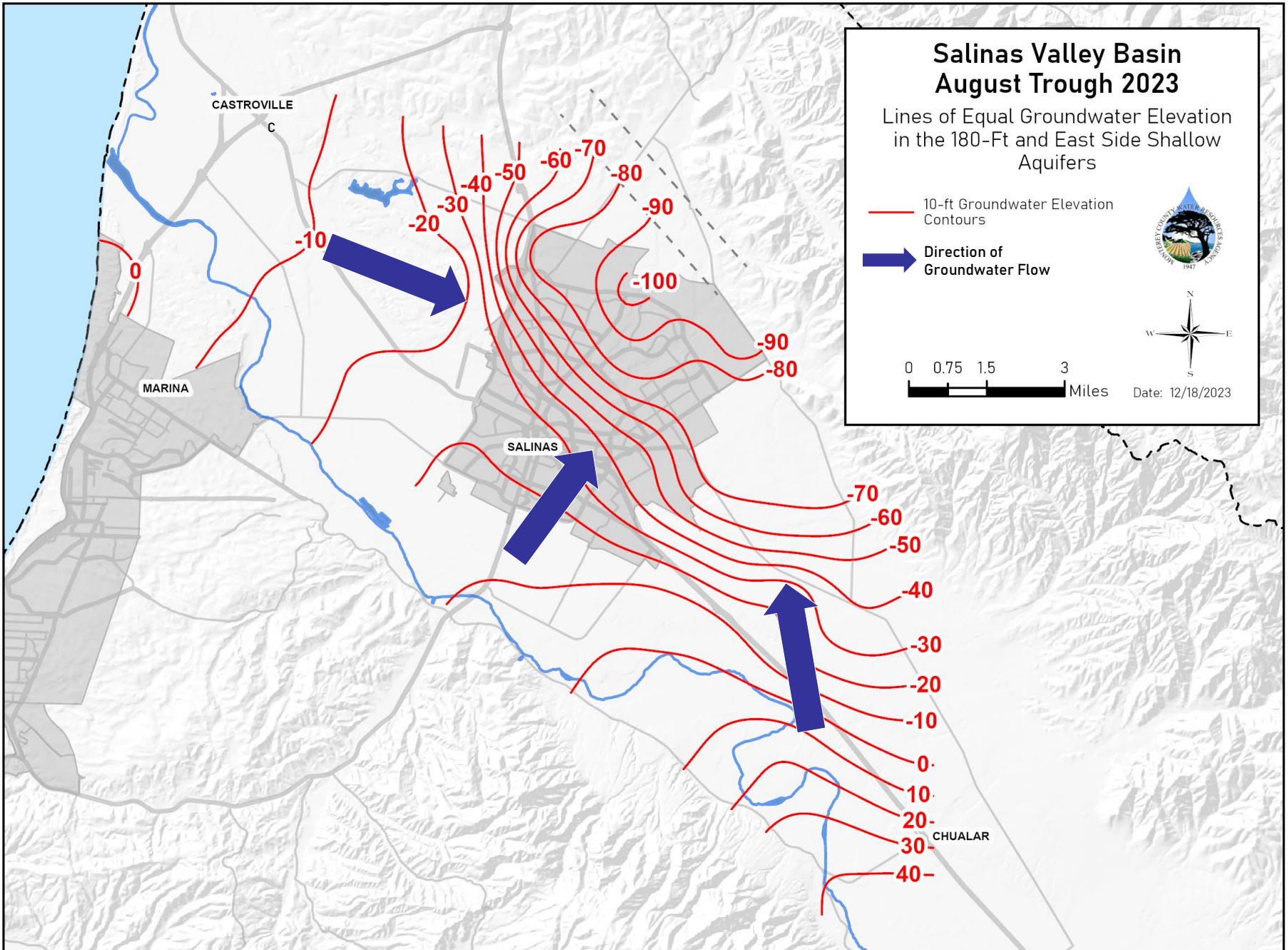
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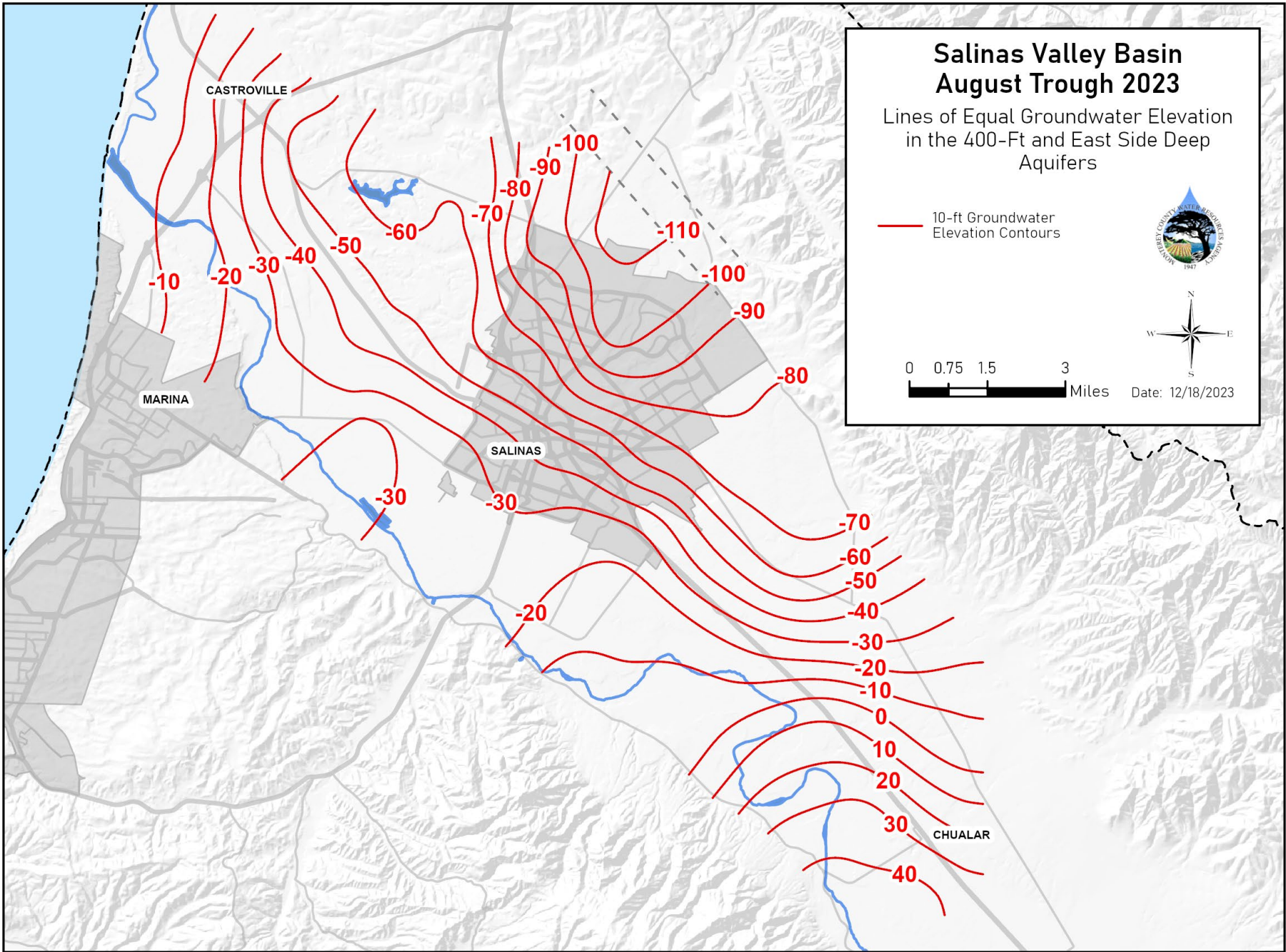
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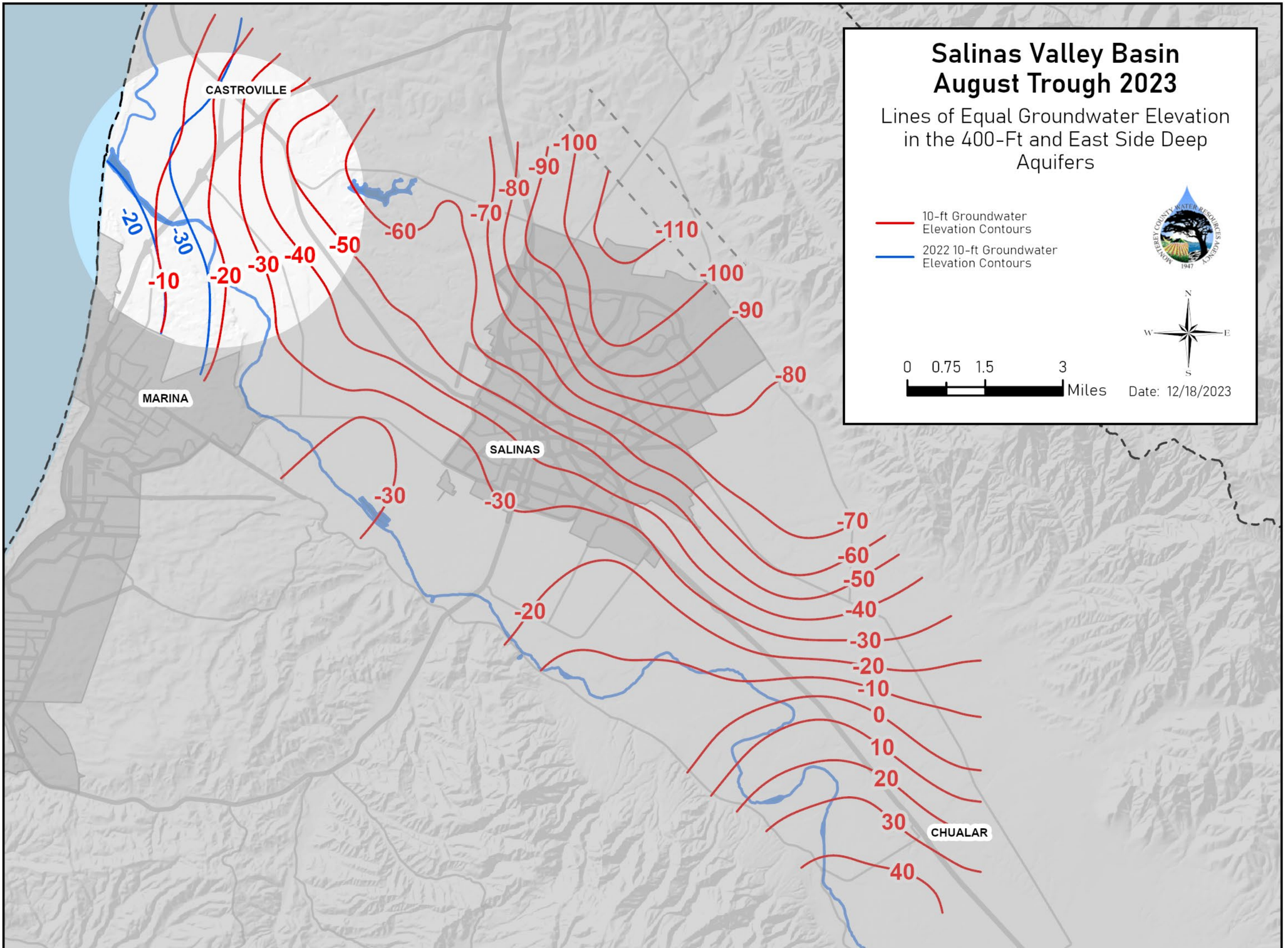
Salinas Valley Basin August Trough 2023

Lines of Equal Groundwater Elevation
in the 400-Ft and East Side Deep
Aquifers

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- 2022 10-ft Groundwater Elevation Contours



Date: 12/18/2023



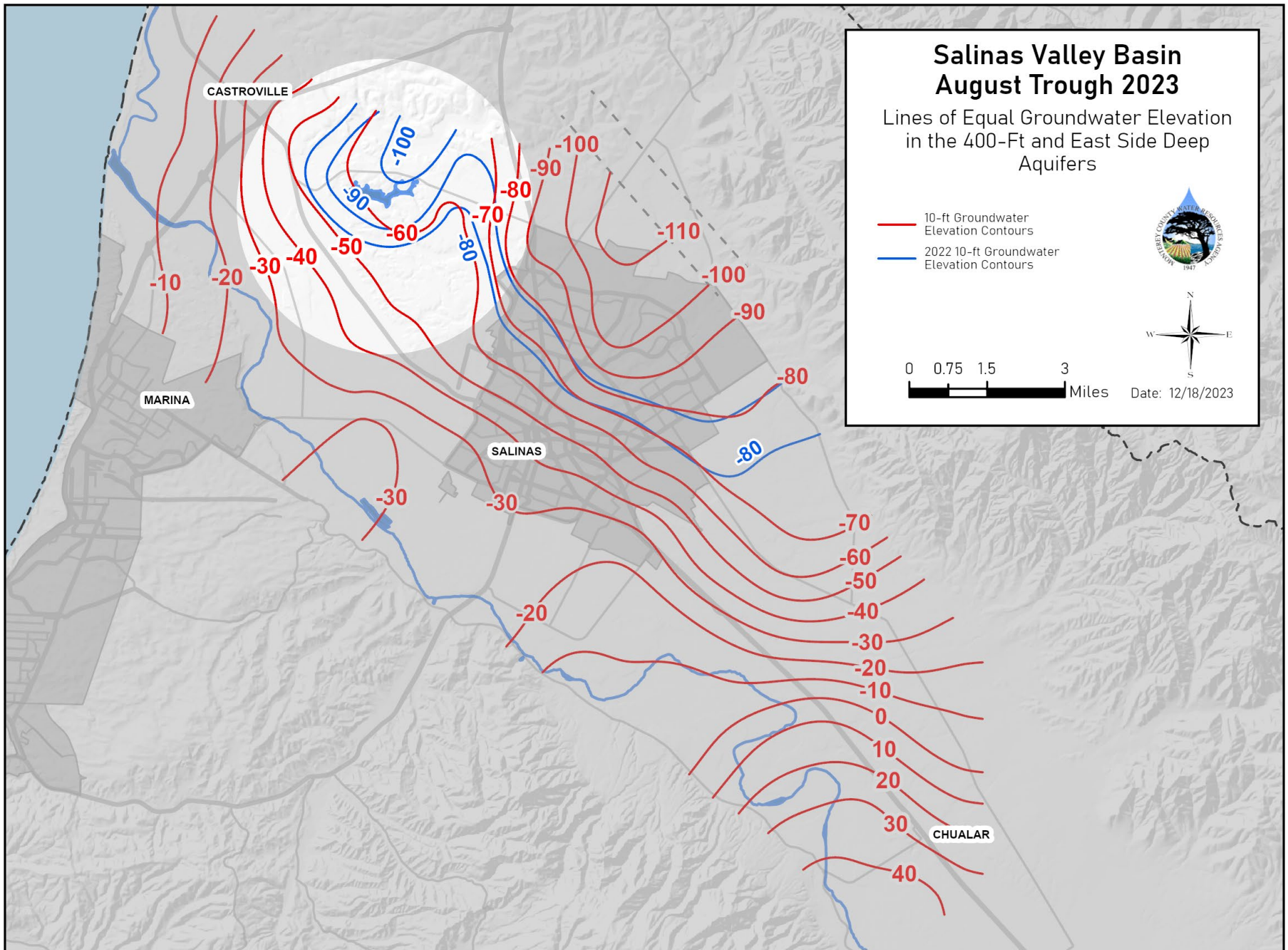
Salinas Valley Basin August Trough 2023

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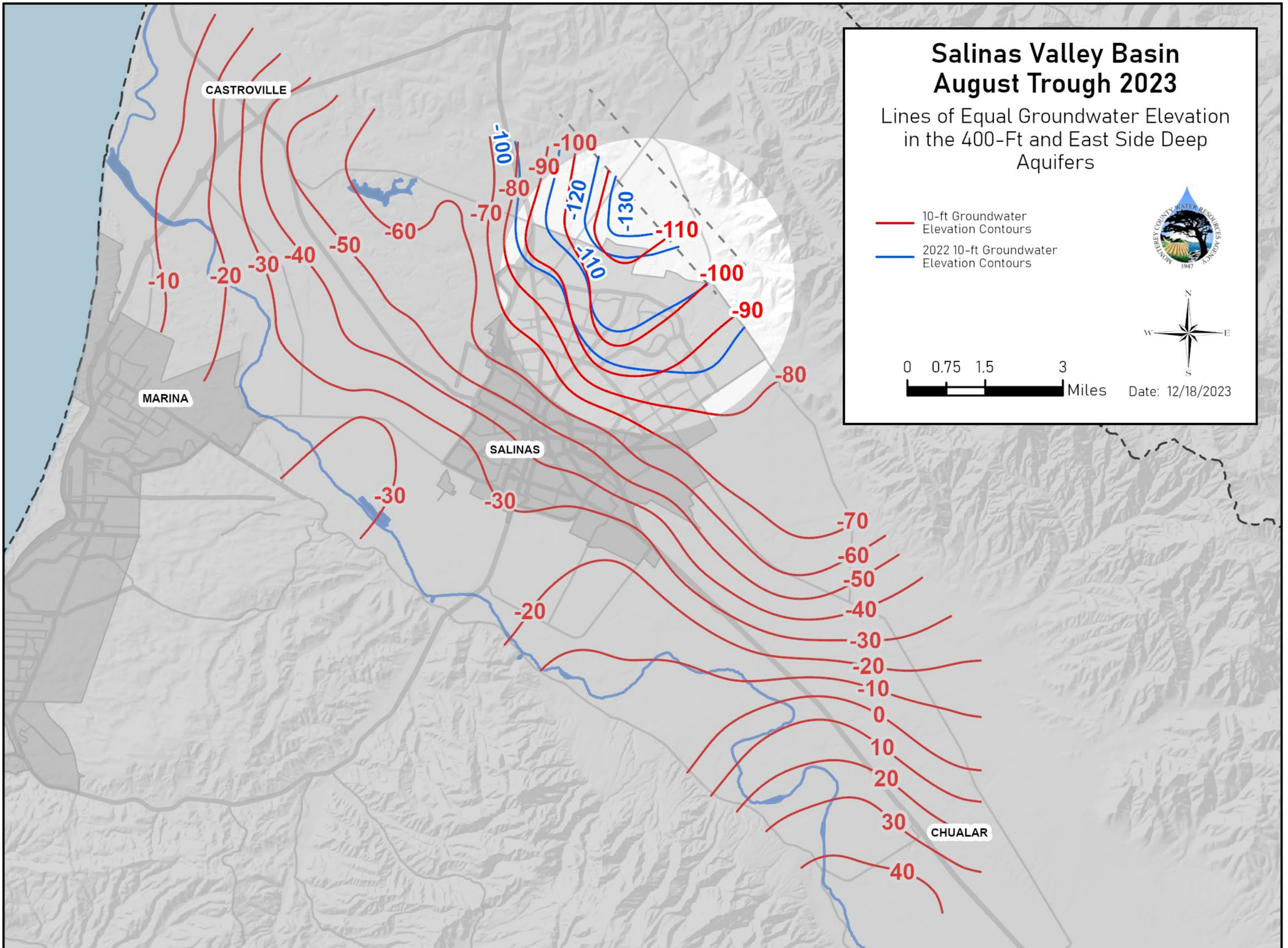
Salinas Valley Basin August Trough 2023

Lines of Equal Groundwater Elevation
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Aquifers

- 10-ft Groundwater
Elevation Contours
- 2022 10-ft Groundwater
Elevation Contours



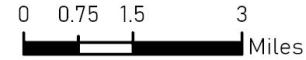
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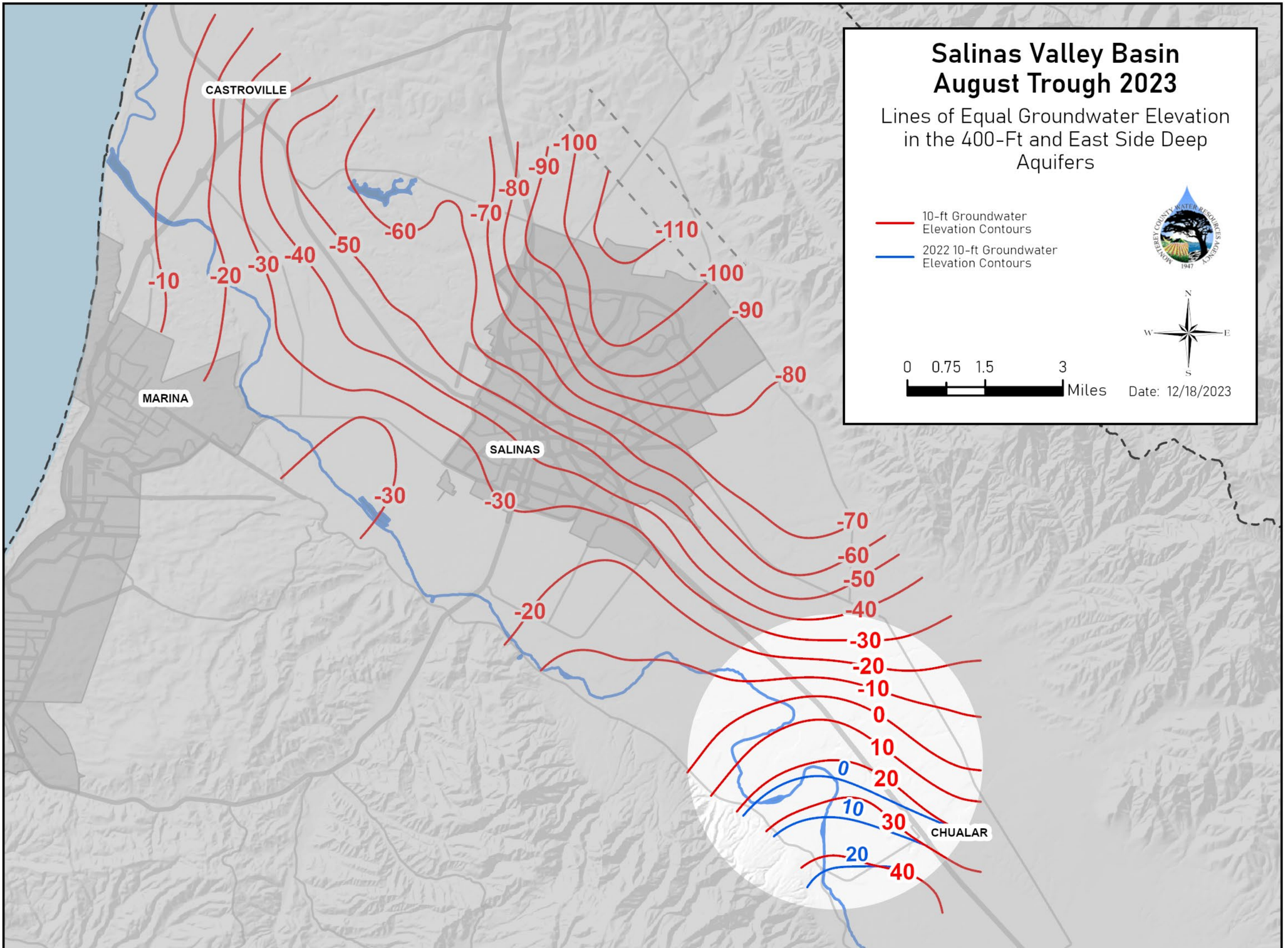
Salinas Valley Basin August Trough 2023

Lines of Equal Groundwater Elevation
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- 10-ft Groundwater Elevation Contours
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Salinas Valley Basin August Trough 2023

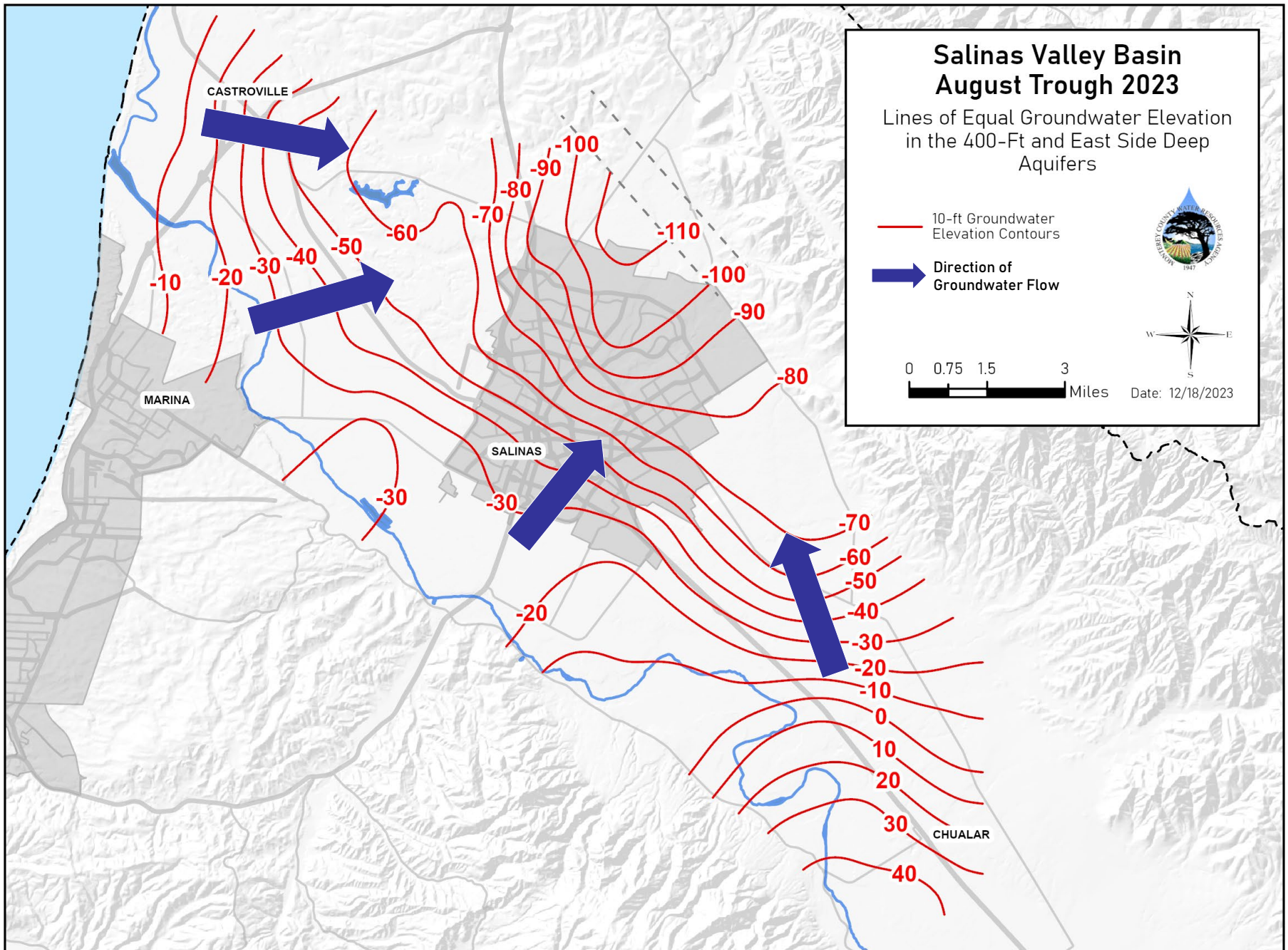
Lines of Equal Groundwater Elevation
in the 400-Ft and East Side Deep
Aquifers

— 10-ft Groundwater
Elevation Contours

➔ Direction of
Groundwater Flow



Date: 12/18/2023





August 2023 Summary: Changes Since 2023

- 180-Ft Aquifer, East Side Shallow
 - Increase near coast of 4-7’
 - Lessening of East Side trough, and area north of Salinas by 5-15’
 - Increase in elevations up valley of 10-20’
- 400-Ft Aquifer, East Side Deep
 - Increases at coast, ranging from 10’ near river, 10-20’ towards Castroville, and 30-35’ north of Espinosa Lake
 - Lessening of East Side trough by 10-15’
 - Increase in elevations up valley of 12-25’



