

DRAFT



Westlands Water District

# Groundwater Management Strategy- Concept

WWD Board Meeting  
September 18, 2018

# Outline

- August 14, 2018 Groundwater Allocation Concept Recap
- Alternative Management Strategy
- Policy Direction
  - Water Level Elevation Triggers
  - Groundwater Status Report Frequency
  - Pumping Exceedance
  - Management Strategy Preference



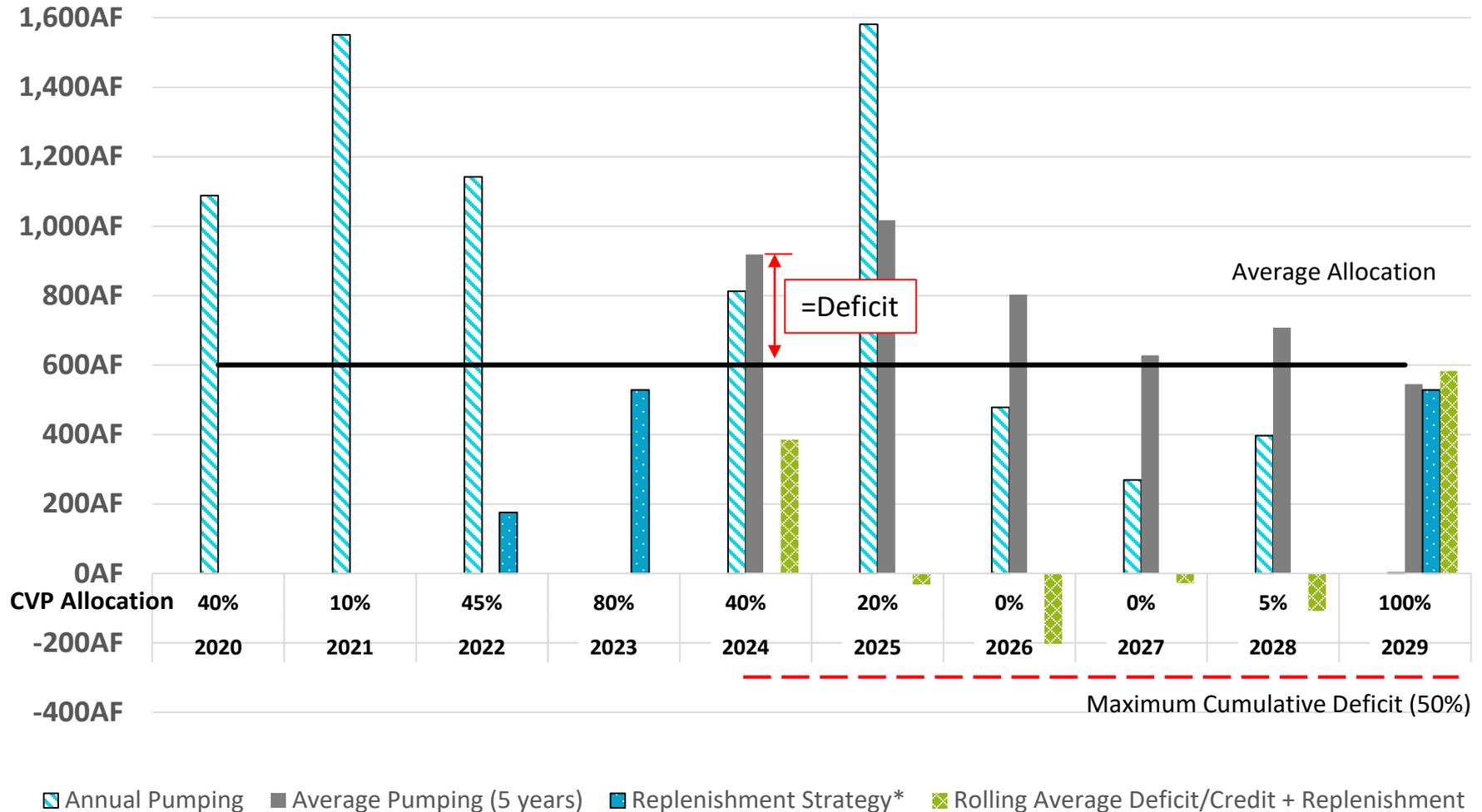
# Groundwater Allocation Concept Recap

- Projected groundwater pumping post- GSP
- 3-year groundwater pumping rolling average
- Identified a pumping deficit/credit for annual and cumulative groundwater pumping
- Illustrated the potential benefits from replenishment projects

How does the graph change if the information based on a 5-year rolling average?

# 5- Year Rolling Average + Replenishment Strategy

- Assumptions:**
- Lower Aquifer
  - 1,200 Acres
  - 0.5 AF/Acre

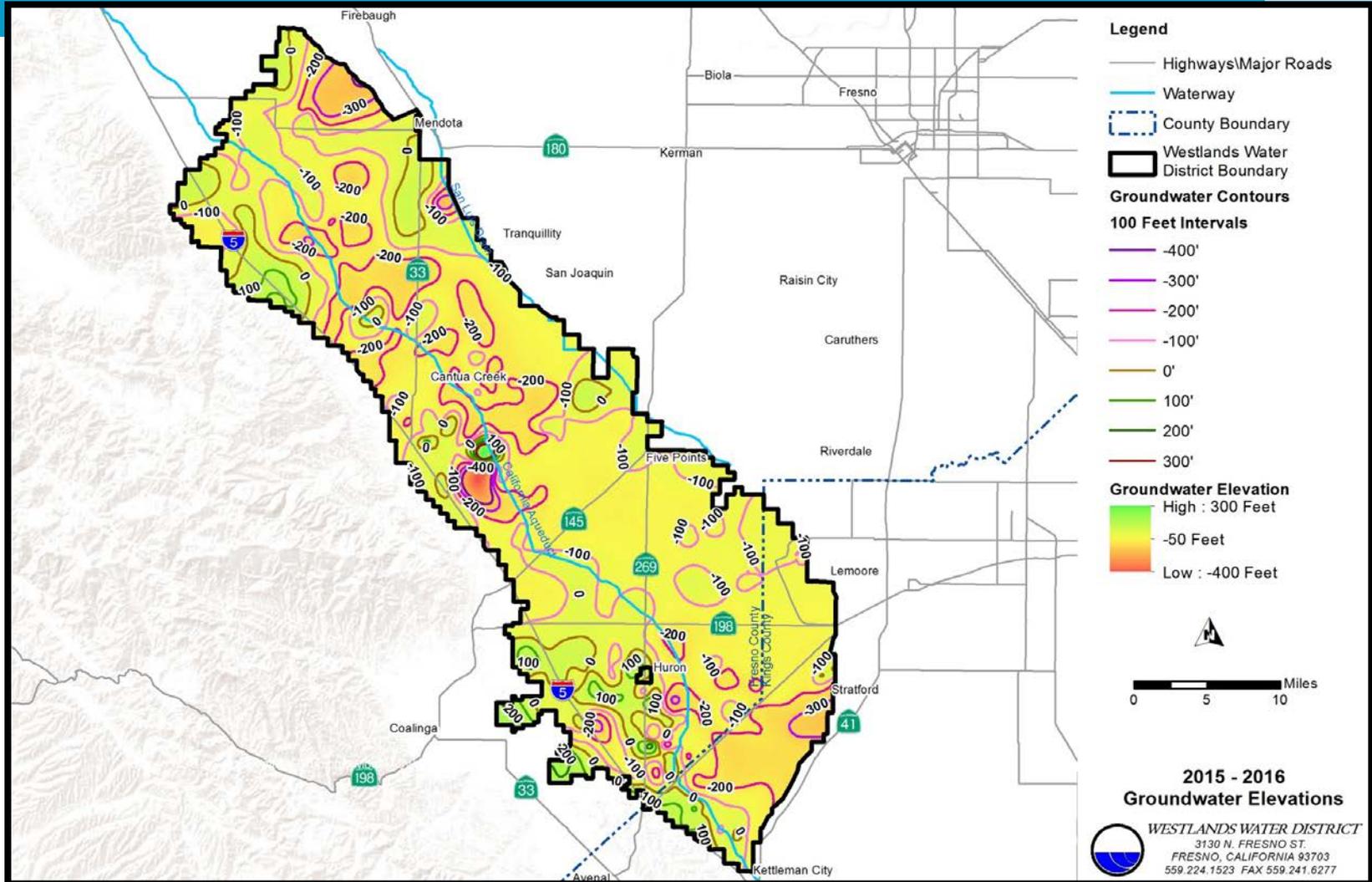


\* Augmentation based on years for risk of spill and wet years

# Alternative Management Strategy

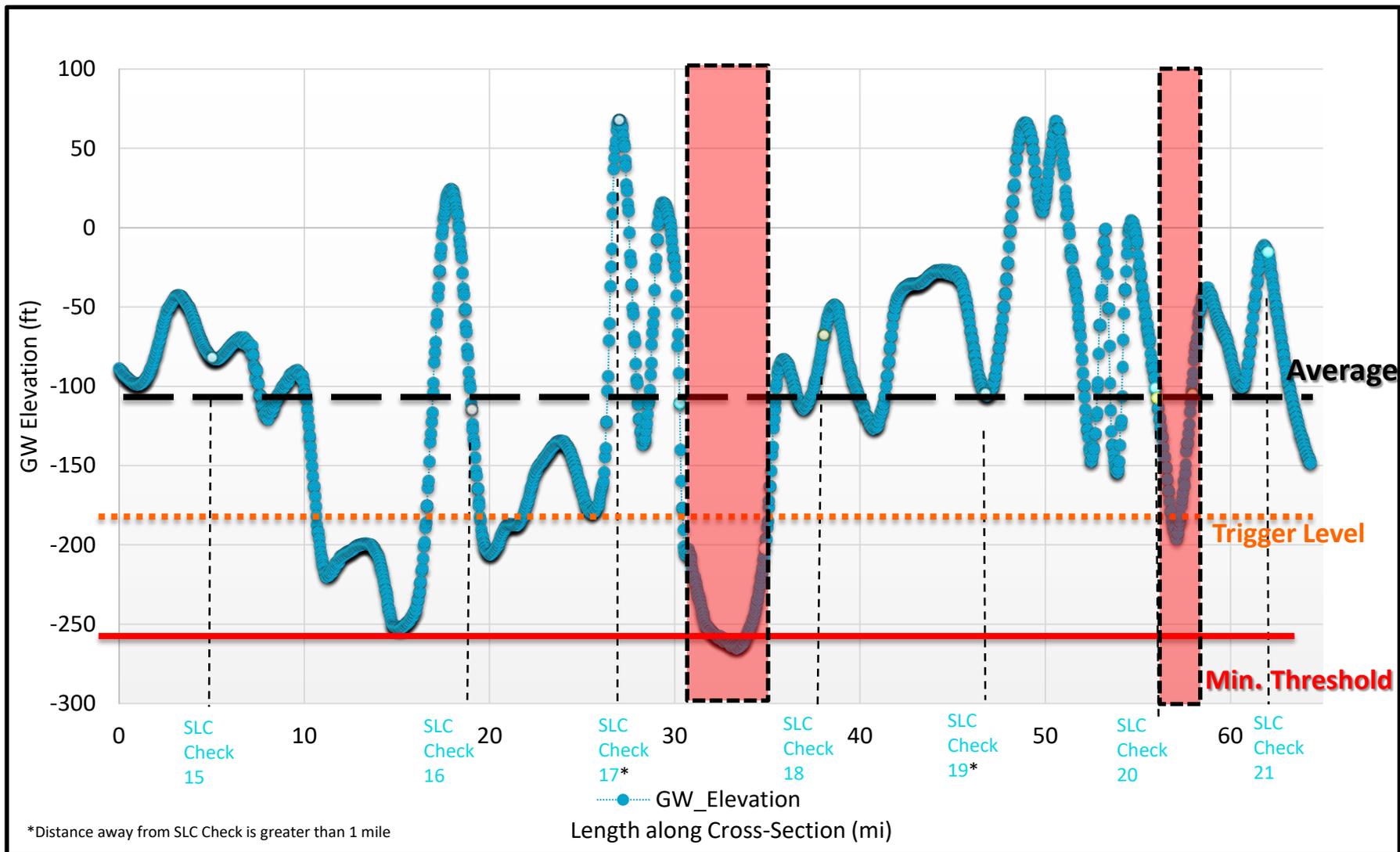
- Increase groundwater management flexibility
- Provide a platform that only restricts pumping when **water levels approach minimum threshold levels**
- Allow groundwater pumpers to manage water supplies

# December 2015 Lower Aquifer- Groundwater Level



# Cross Section along SLC- December 2015

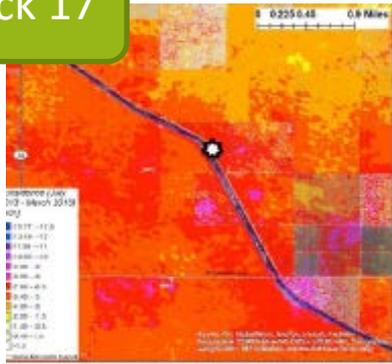
## Groundwater Elevation



\*Distance away from SLC Check is greater than 1 mile

# Subsidence- Concern Locations

Check 17



# Accounting Requirements

- Meter all groundwater wells
  - Track Groundwater Pumping
  - Provide annual groundwater status report to all pumpers
- Impose restrictions when
  - Water level falls below trigger level
  - First to stop pumpers that extracted more than their allocation
- What about neighbor impacts?
  - Water levels create undesirable results to neighboring pumpers
  - Should restrictions be imposed?

## POLICY DIRECTION

Water Level Elevation

Triggers

Groundwater Status Report

Frequency

Pumping Exceedance

# QUESTIONS

