



Implementing the Sustainable Groundwater Management Act In the Salinas Valley



2011-2017



CALIFORNIA REPUBLIC



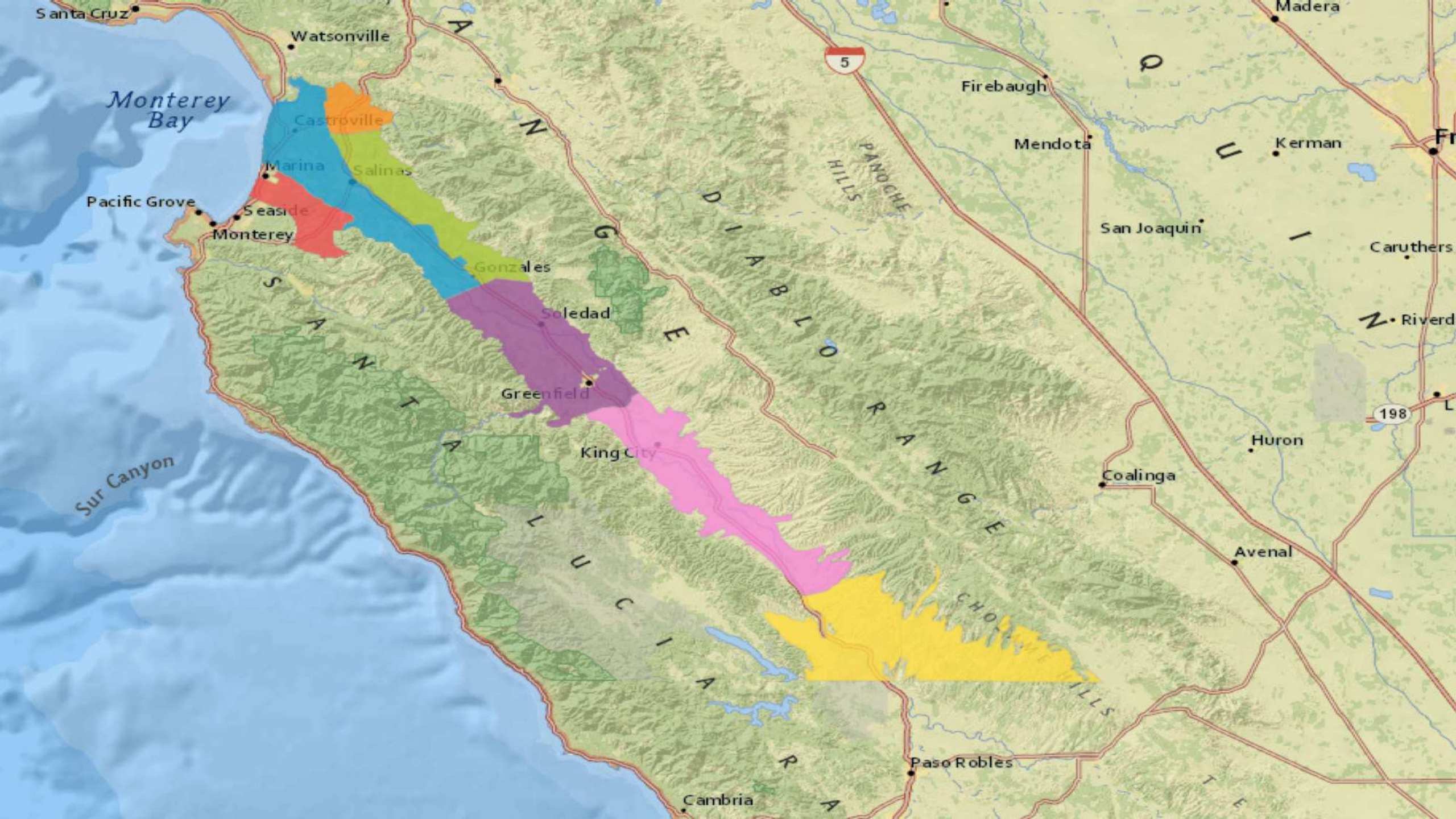
Who Does SGMA Apply To?

- There are 515 groundwater basins in the State
- SGMA applies to the 127 “high and medium priority” basins
- 21 basins are critically-over drafted
 - Parts of Salinas Valley
 - Santa Cruz Mid-County
 - Pajaro Valley



Salinas Valley Basin Groundwater Sustainability Agency

- Formed as a Joint Powers Authority
 - Monterey County
 - Monterey One-Water
 - Monterey County Water Resources Agency
 - Castroville Community Service District
 - Cities
 - King City
 - Soledad
 - Gonzales
 - Salinas
 - Contract Agency
 - No full time employees
 - No legacy costs
 - Regional Government Services
- Board Representation
 - Agriculture
 - Forebay
 - Eastside/Langley
 - Pressure 180-400
 - Upper Valley
 - CPUC Regulated Water Company
 - Environmental
 - Disadvantaged Community/ Small Public Water Systems
 - Other Eligible GSA Entity
 - City of Salinas
 - South County Cities
 - Public Member



Guiding Principles

- Understanding where people are and what they want will direct our actions
- Inclusion and diversity produce better results
- Doing it together is the right, though difficult, thing to do.

Public Meetings 2018-19

Total Governance Meetings 83

Total Public Info Meetings 35



Number of Meetings 128

Fee Approved March 14, 2019

Calculated Fee Schedule for Fiscal Year 2019/20

Proposition 26 Regulatory fee

Sustainable Groundwater Beneficiary	Annual Fee FY 2019/20		Water Usage
Agricultural	\$4.79	Per Irrigated Acre	90%
All Other	\$2.26	Per Service Connection	10%
State of California Cost	\$110 Row Crop \$93.50 Berries	Per Irrigated Acre Per Irrigated Acre	

Estimated Domestic Water Usage Per Connection .36 acre foot
(approximately 117K) gals)

SGMA Timeline

SGMA Start
Jan 1, 2015

Basin Modification
2016

GSA Formation
2017

GSP Development
2018 – Jan, 31 2020 (or 2022)



Lowering
GW Levels



Reduction
of Storage



Seawater
Intrusion



Degraded
Quality



Land
Subsidence

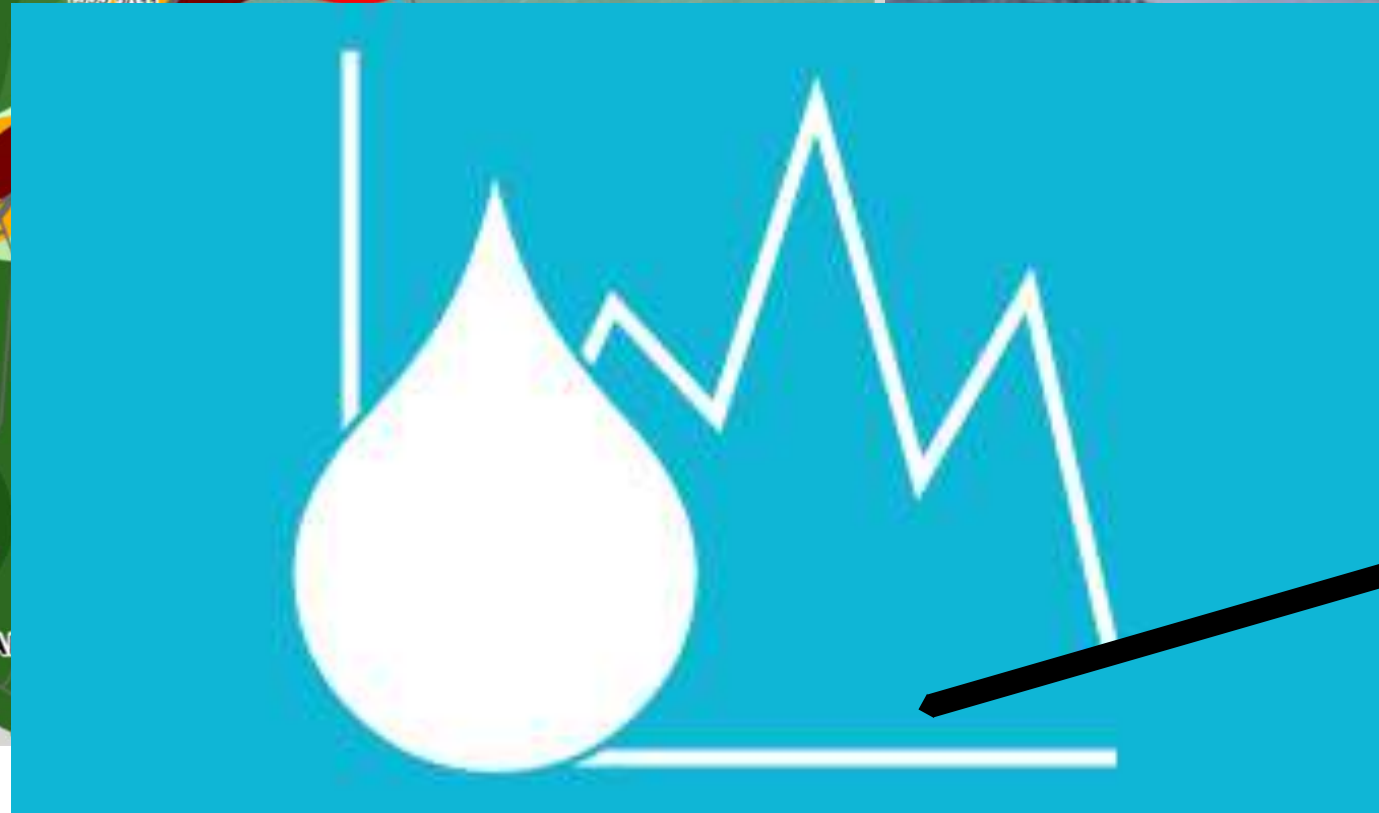
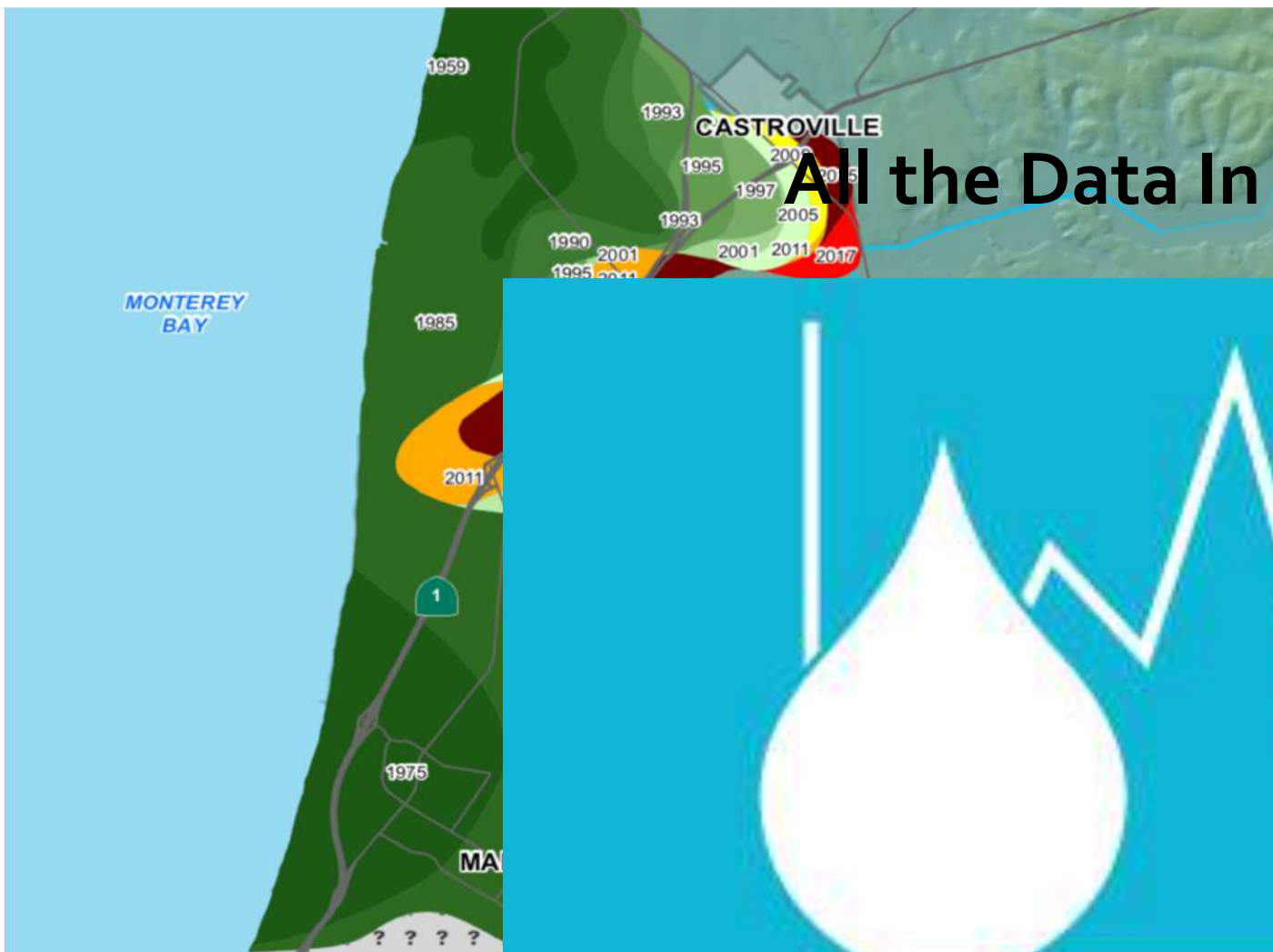


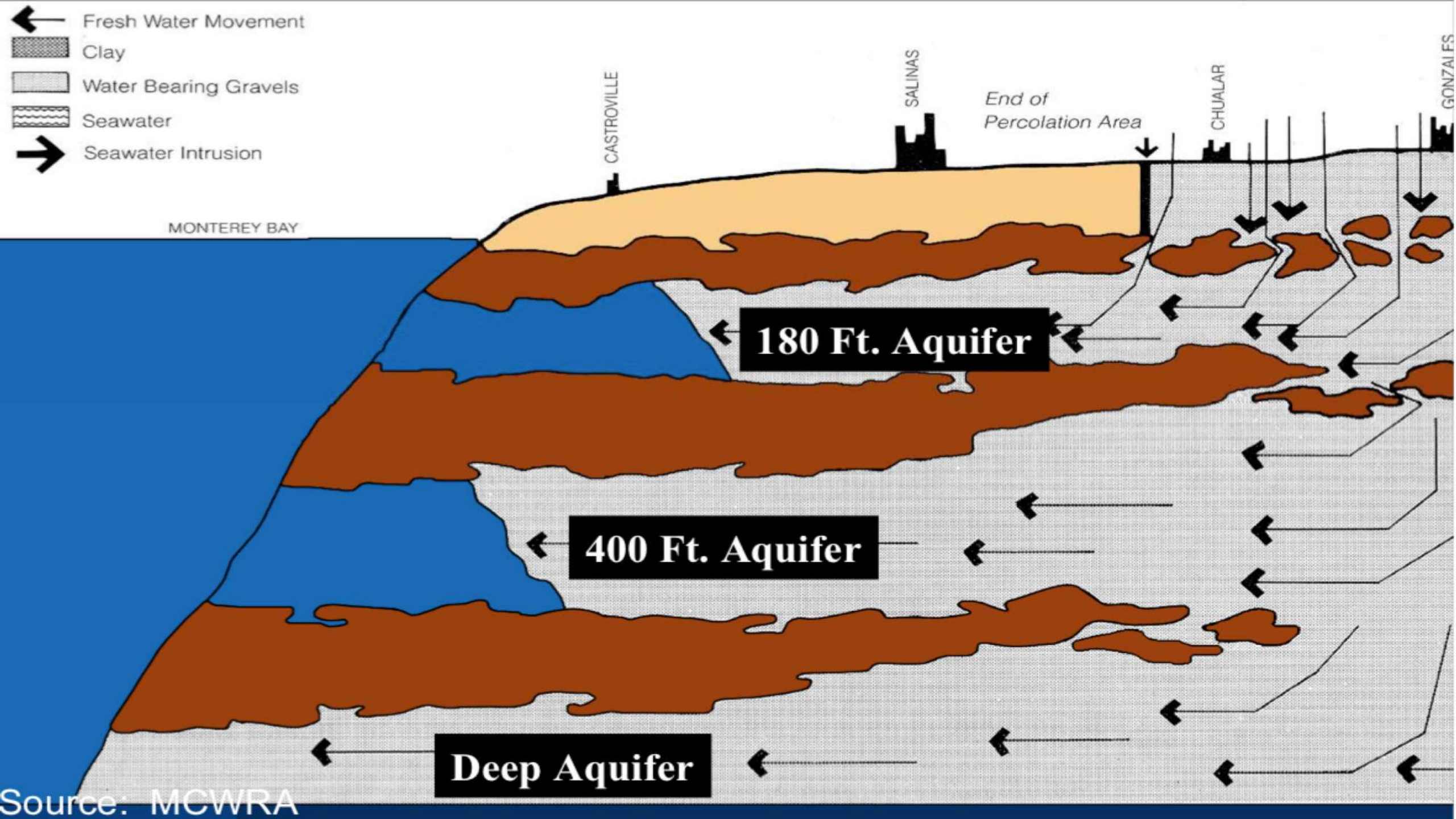
Surface Water
Depletion

2020 – 2040 Achieve Sustainability within **20 years**

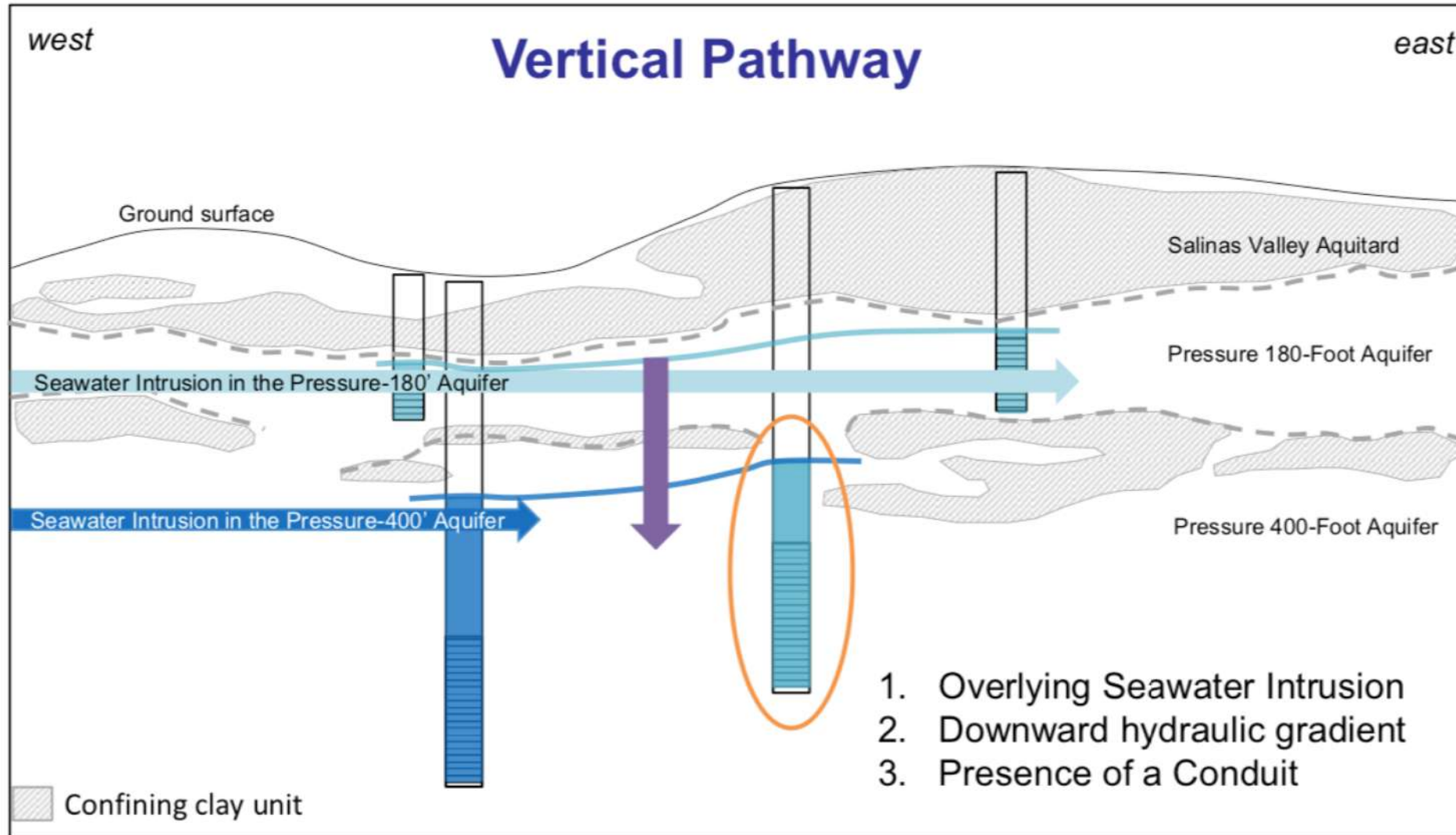
2040 – 2070 Maintain Sustainability for next **30 years**

All the Data In Between



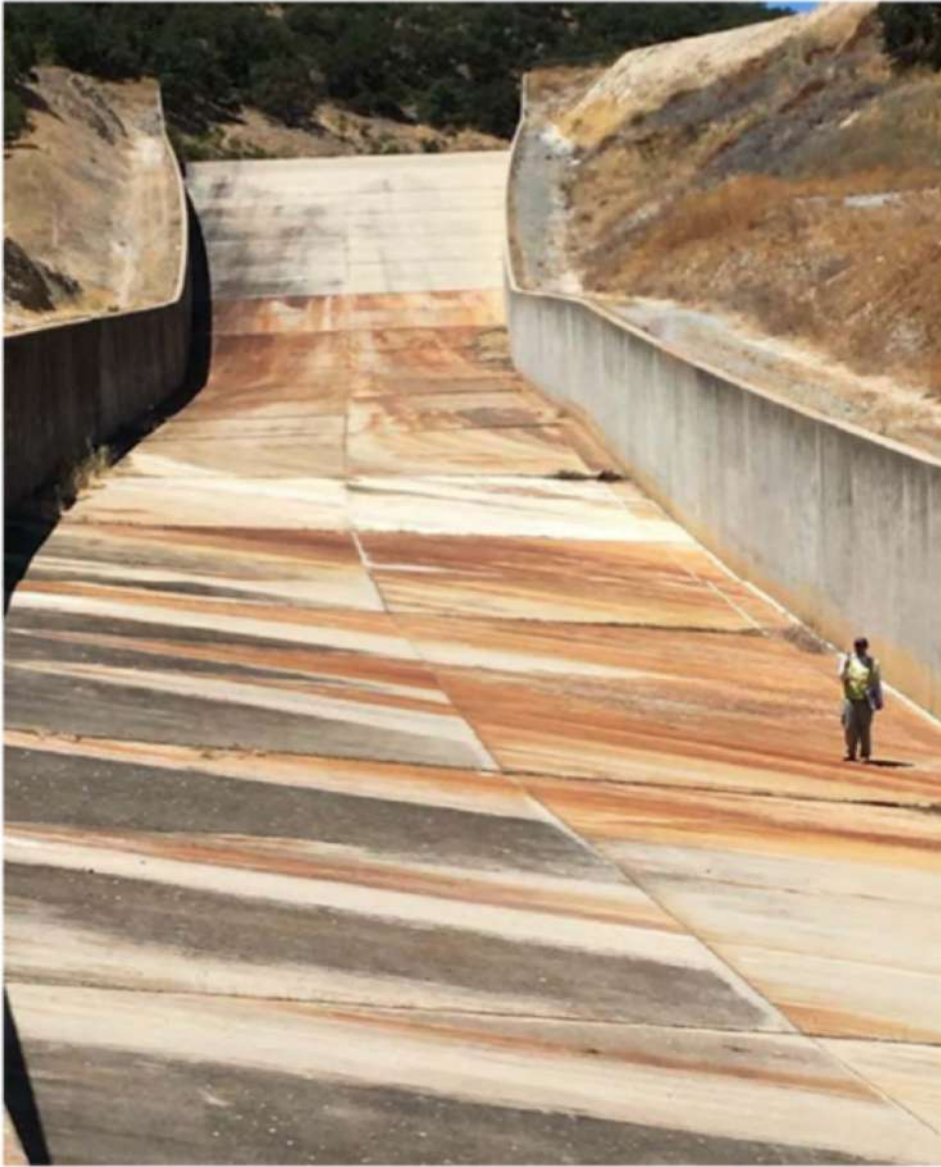


Seawater Intrusion – Pathways



— Water Level in Pressure 180-Foot Aquifer

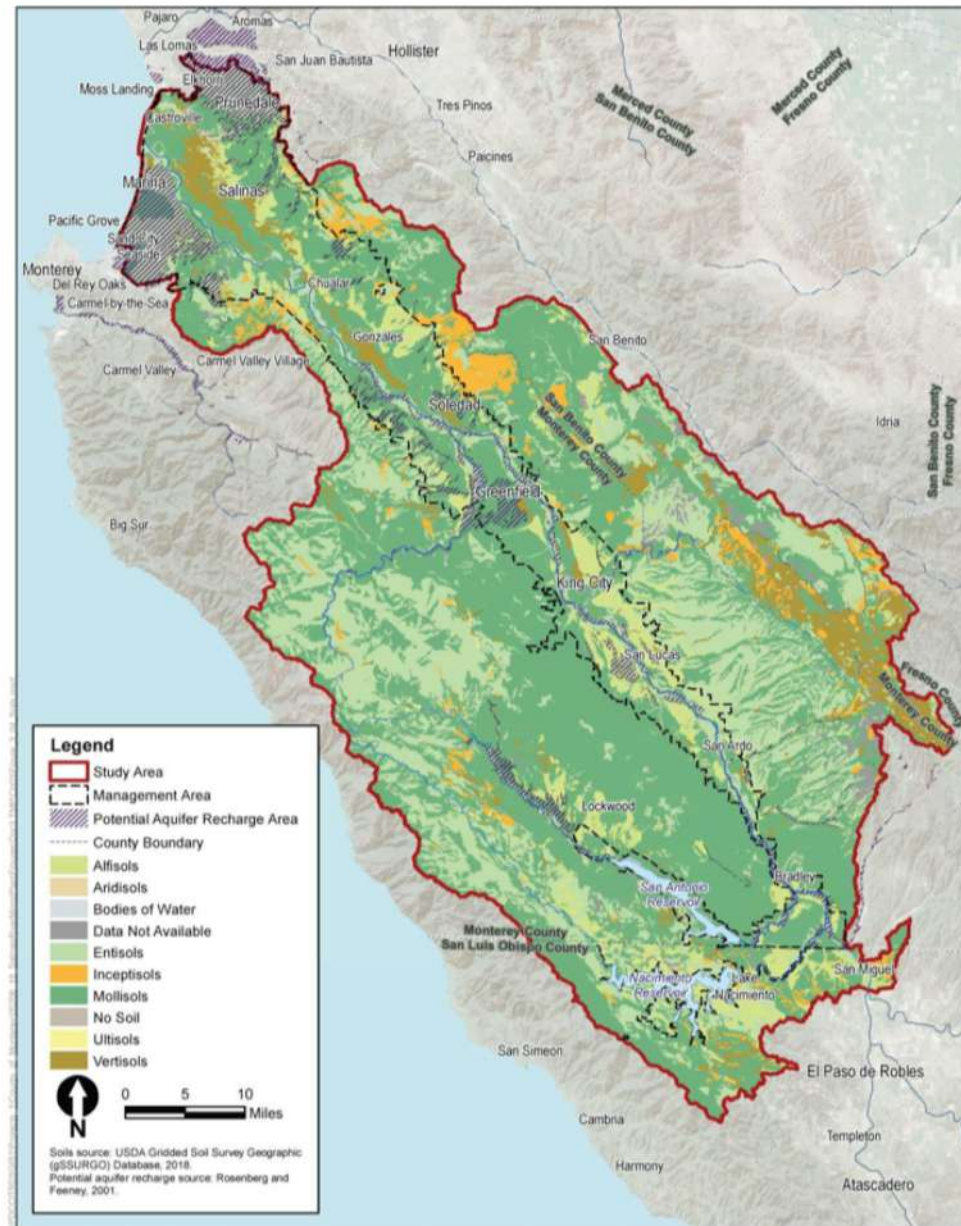
— Water Level in Pressure 400-Foot Aquifer




Upstream Portion Spillway Chute



Example Concrete Condition






Chapter 9

Projects and Actions

Addressing the Issues



Important Points

- This chapter is our proposal on how to reach sustainability. Modifications will be made over the next three to five years
- Not all projects and actions will need to be implemented
- Many details need to be developed
 - Developed over first two to three years of implementation
 - Informed by other GSPs as they are written
 - Opportunity for more input
- Demonstrate to DWR that we have the tools to reach sustainability

Project Assumptions

- Projects are designed to attain sustainability with existing water supplies
- Additional water supplies can be incorporated during early GSP implementation
 - Interlake tunnel
 - Jarrett Dam
- Additional water supplies will trigger a reassessment of which projects to implement
- Limited time to confirm new water supplies





Priority Projects

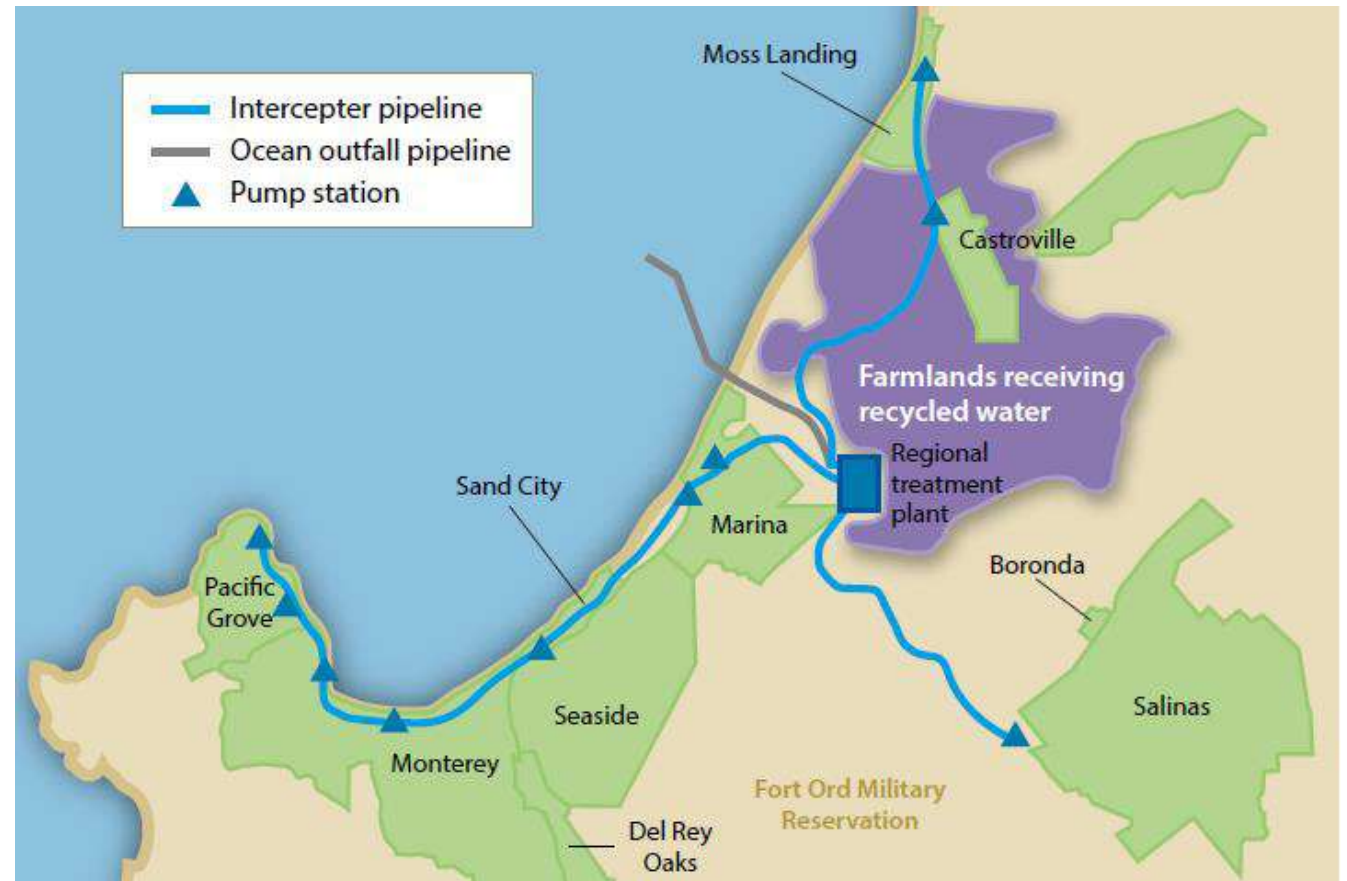
Invasive Species Eradication

- Work with existing programs
- Multiple benefits
- Direct groundwater benefit to 180/400-Foot Aquifer Subbasin is limited
- Indirect benefit through better river management, potential direct benefit in Southern Subbasin



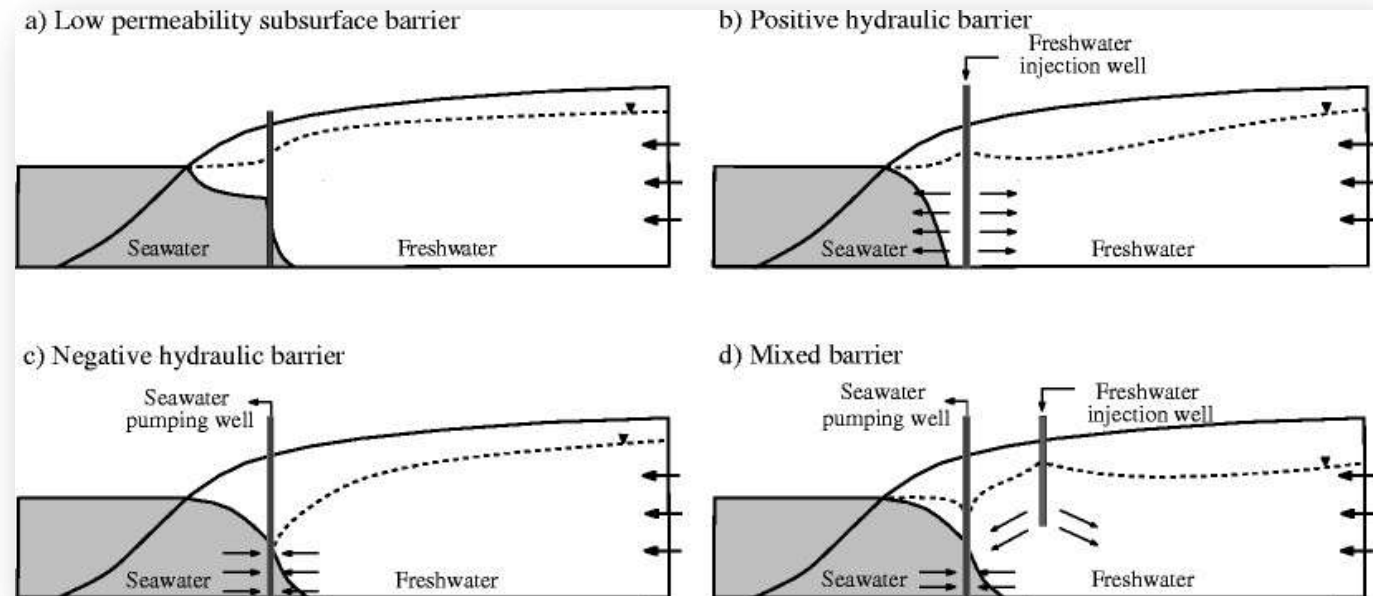
CSIP Projects

- Four individual projects identified
 - Optimize CSIP
 - Upgrade M1W plant for winter flows
 - Maximize CSIP use of existing SRDF diversion
 - Expand CSIP area
- All projects work together – no one project is sufficient



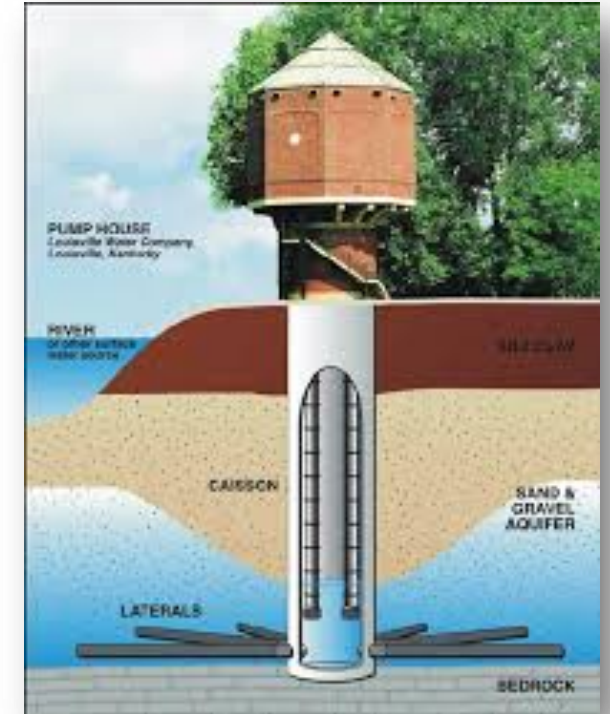
Seawater Extraction Barrier

- Designed to halt and reverse seawater intrusion
- Relatively high cost, but a definitive fix
- State of extracted water TBD
- Optional injection barrier addressed



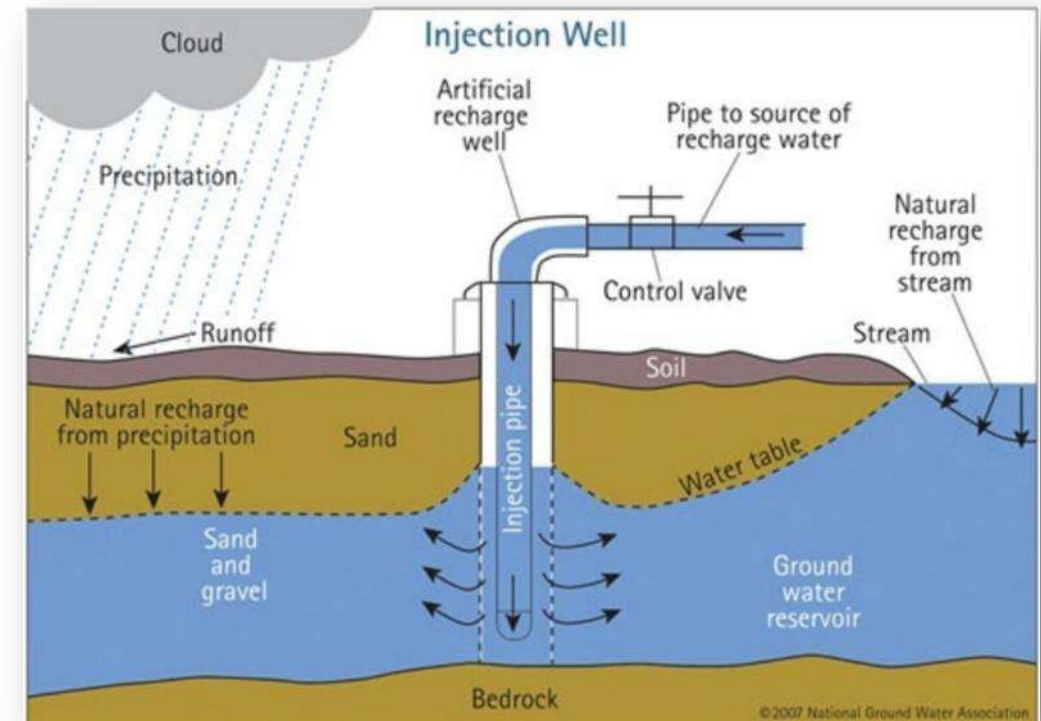
11043 Water Right

- Divert using radial collectors
- Project 1: radial collector at Chualar provides water to eastern Salinas area
- Project 2: radial collector at Soledad provides water to southern Eastside Subbasin
- Although this is a priority project, not all parts may be built
 - Many details still to be worked out.



Inject Winter Flows from SRDF

- Extract at SRDF
- Injection wells add water to 180-Foot and 400-Foot-Aquifers
- Likely require a change in time of diversion on an existing water right
- May reduce size, or need for, seawater intrusion barrier





Alternative Projects

Alternative Projects

- Serve desalinated water to municipalities
- Recharge local runoff from Gabilan Range
- Recharge winter M1W advanced treated water if available
- Conjunctive use of southern 180-Foot Aquifer




Management Actions

Management Actions


- Outreach and Education
 - Best practices
- Reservoir reoperation
 - Reliant on HCP
 - SVBGSA supports particular purposes for reservoir reoperation
- Agricultural retirement
 - Only applicable to willing sellers
 - Potential to subsidize rotational fallowing or partial fallowing

Management Actions

- Restrict pumping in CSIP area
 - Implemented after the CSIP projects are developed
- Support extension of emergency ordinance in Deep Aquifer
 - Avoid too many wells in deep aquifer
 - Avoid severe water restrictions
 - Temporary until the Deep Aquifer study is complete



Water Charges Framework



Water Charges Framework

- System to fund projects and actions
- Provide a financial incentive to control pumping
- Allow individual well owners, including municipalities, to make financial decisions on water use.
- Identical framework in each Subbasin, but different details in each Subbasin
- **Other options will be reviewed, including regulatory fees, per acre charges**



Water Charges Framework

- Tiered system based on extraction
- Tiers are unique in each Subbasin
- Charges are unique in each Subbasin
- Tradeable allowances (to some degree)
- Rollover

This will be a negotiated framework. Desired outcome is an equitable and agreed to system.