# THE STATE WATER BOARD'S ROLE IN SUSTAINABLE GROUNDWATER MANAGEMENT

Erik Ekdahl, Samuel Boland-Brien

Groundwater Management Program

Office of Research, Planning and Performance

State Water Resources Control Board

## Updates

- Background: What got us to the Sustainable Groundwater Management Act (SGMA)
- SGMA Overview
- SWRCB, DWR activities and coordination
- Other Program work



#### SGMA

Signed by Governor on September 16, 2014

- AB 1739 (Dickinson)
- SB 1168 (Pavley)
- SB 1319 (Pavley)
- Effective January 1, 2015

"A central feature of these bills is the recognition that groundwater management in California is best accomplished locally."

- Governor Edmund G. Brown Jr., in signing statement accompanying SGMA groundwater legislation.

#### The Basics

- Requires formation of sustainability agencies and development of sustainability plans
  - 127 High and medium priority basins
- Authorizes management tools for local agencies
- Defines timeframe for accomplishing goals
- Provides alternative if users can show basin is sustainable
- Creates state "backstop"

#### **STATEWIDE**

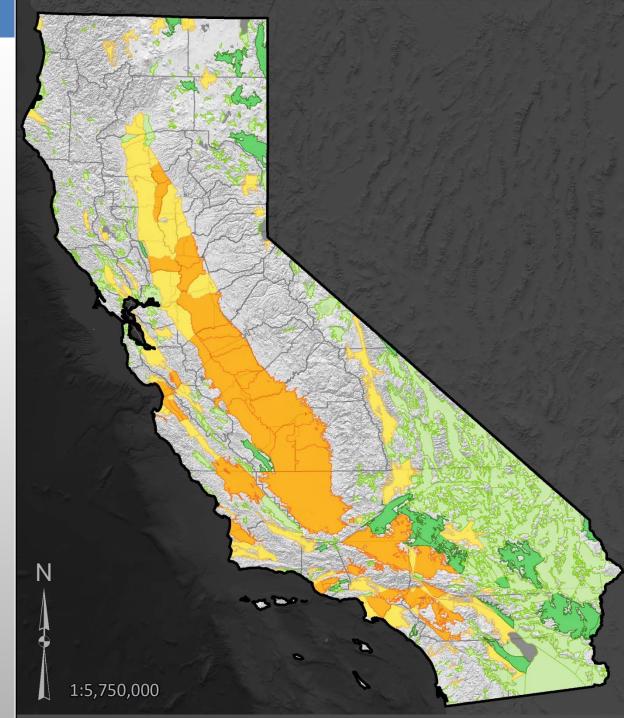
#### **SGMA** PRIORITIZATION

#### Basins displayed by priority:

- 43 High Priority (O)
- 84 Medium Priority (Y)
- **27** Low Priority (G)
- 361 Very Low Priority (Lt. G)

#### Criteria are:

- 1. Population
- 2. Population growth
- 3. Number of public supply wells
- 4. Total number of wells
- 5. Irrigated acreage
- 6. Degree of dependence
- 7. Documented impacts
- 8. Other relevant information, such as adverse impacts to local habitat or streamflows



## **REGION 1**SGMA PRIORITIZATION

#### Basins displayed by priority:

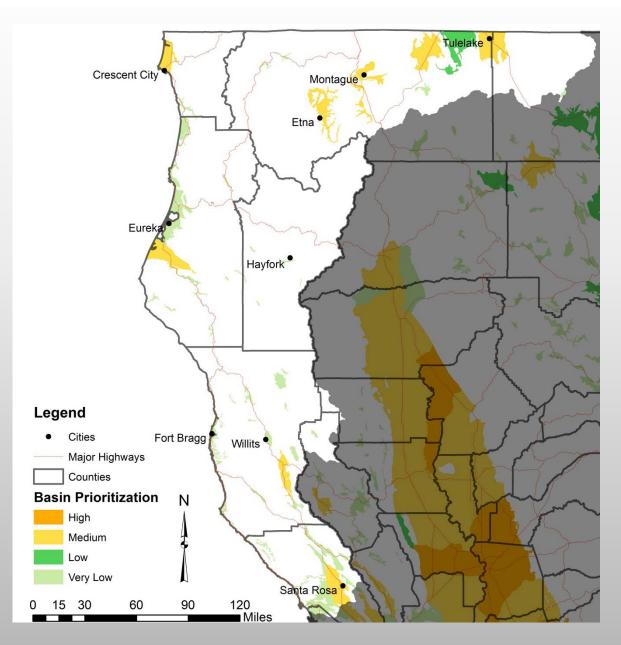
8 Medium Priority (Y)

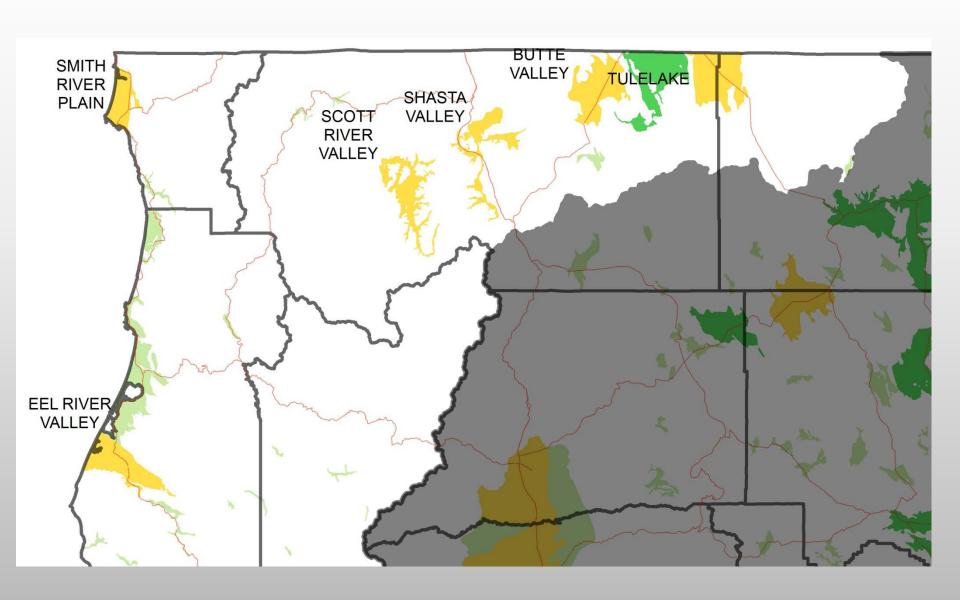
2 Low Priority (G)

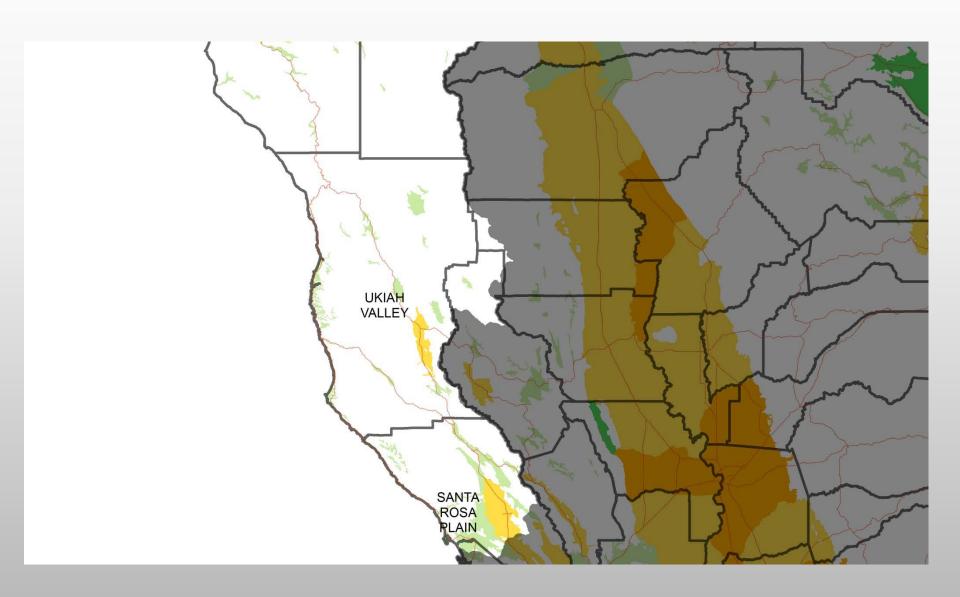
54 Very Low Priority (Lt. G)

#### **Medium Priority Basins:**

- Santa Rosa Plain
- Ukiah Valley
- Eel River Valley
- Smith River Plain
- Scott River Valley
- Shasta Valley
- Butte Valley
- Tulelake







## Key SGMA Requirements

- Groundwater Sustainability Agencies (GSAs) (2017)
  - One or more agencies
  - If more than one agency per basin, GSAs must coordinate
- GSAs Prepare Groundwater Sustainability Plans (GSPs) (2020/2022)
  - Measurable objectives
  - Implementation milestones
  - Annual reports (water use, extraction, change in storage)
- Achieve Sustainability 20 years after plan adoption, prevent "undesirable results"

### Sustainable groundwater management

Management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results.

#### <u>Undesirable results</u>

- Chronic lowering of groundwater levels (not including overdraft during a drought, if a basin is otherwise managed)
- Significant and unreasonable:
  - reductions in groundwater storage
  - seawater intrusion
  - degradation of water quality
  - Significant and unreasonable land subsidence
  - Surface water depletions adversely impacting on beneficial uses

## State Board Intervention Triggers

After	Intervention Trigger
June 30, 2017	No Groundwater Sustainability Agency formed.
Jan. 31, 2020	<ol> <li>In basins in a condition of critical overdraft:</li> <li>No sustainability plan has been adopted, or</li> <li>The Department of Water Resources (DWR), in consultation with the State Water Board, finds that the sustainability plan or its implementation is inadequate.</li> </ol>
Jan. 31, 2022	<ol> <li>In other high- or medium-priority basins:</li> <li>No sustainability plan has been adopted, or</li> <li>DWR, in consultation with the State Water Board, finds the sustainability plan or its implementation is inadequate, and the State Water Board finds that the basin is in a condition of long-term overdraft.</li> </ol>
Jan. 31, 2025	DWR, in consultation with the State Water Board, finds that the sustainability plan is inadequate or the plan is not being implemented in a manner that is likely to achieve the sustainability goal, and the State Water Board finds there are <b>significant depletions of interconnected surface waters</b> .

#### State Water Board Roles

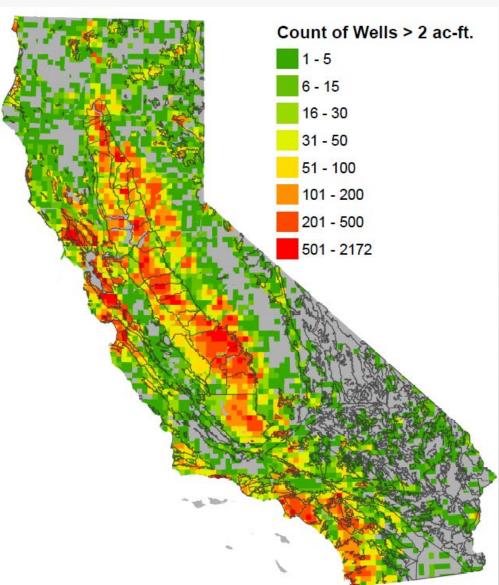
- The State Backstop
  - Data Manager
  - Basin Manager
- Coordination with DWR
  - Communication
  - Outreach
  - Regulation development
  - Implementation of the backstop

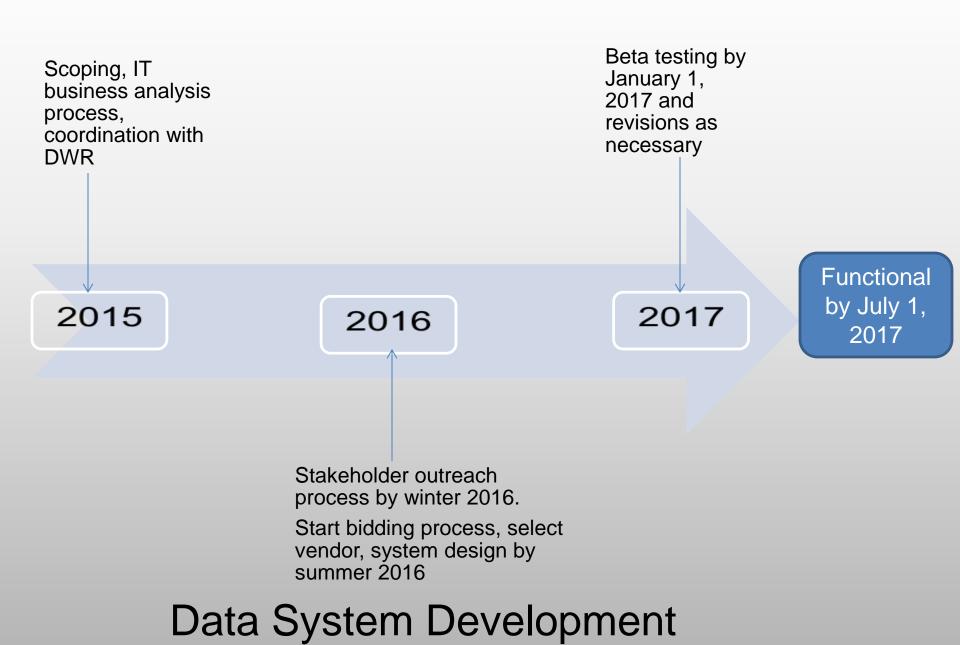
## Role as Data Manager: Potentially Un-Managed Areas (PUMAs)

- First backstop role for Board is data collection (July 1, 2017)
- Groundwater users in PUMAs report to State Board (Water Code §5203)
  - Place of extraction
  - Monthly records of volume of extractions
  - Purpose of use
  - Place of use
  - Any other info required to designate a basin as probationary and write interim plans

## Reporting System Needs

- Electronic reporting system to collect PUMA data
- Data need for interim plans
- Track fees
- Public interface





## Role as Basin Manager

Develop fees to support basin management



Designate probationary basins

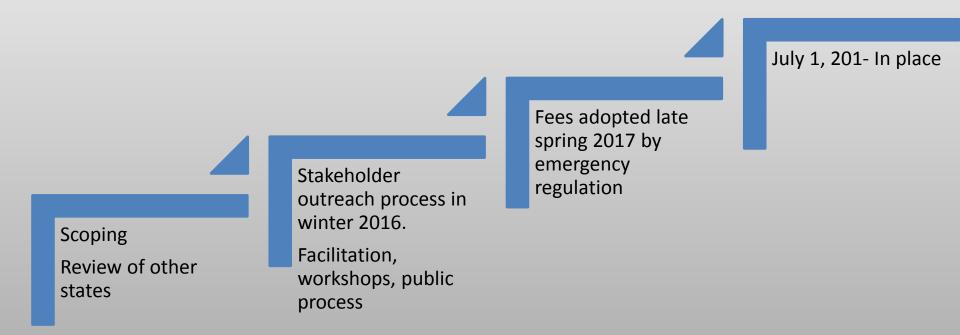


Probationary basins lead to interim sustainability plans



#### Fees

- Cover all costs related to backstop
  - Facilitation, investigation, monitoring, hearings, enforcement, administration
  - PUMA reporting and participation in Board hearings
- Fees need to be in place with data reporting system



## **DWR Key Activities**

- Basin Boundary Revision Regulations
- Identification of Basins in Critical Overdraft
- Update Basin Priorities
- Regulations for Sustainability Plans and how those plans will be reviewed
- Communication and Outreach
- Proposition 1 Grant Guidelines and Funding Criteria

#### **SWRCB & DWR Coordination**

- Coordination Teams
- DWR responsible for evaluating and accepting GSPs; Board is responsible for implementing backstop, identifying probationary basins, writing interim basin management plans
- Board can request that DWR conduct investigations and provide technical assistance
- In some cases, the Board cannot designate probationary basins without first "consulting with DWR"

## Summary: State Board Approach

- Focus on existing authorities
  - Waste and Unreasonable Use
  - Public Trust Doctrine
  - Water Code Section 2100
  - Subterranean Streams
- Support DWR in early years
- Support areas that want the help in early years
- Know the field, be prepared to step in strategically
- Develop ability to use tools sparingly
- Be judicious, strategic, and effective when acting
- Lightest touch possible, with goal of local success

#### Thank You!

Erik Ekdahl
Groundwater Mgmt. Program Manager
Erik.Ekdahl@waterboards.ca.gov
916-341-5316

Samuel Boland-Brien, SGMA R1 Liaison <u>Samuel.Boland-Brien@waterboards.ca.gov</u> 916-322-9633



#### Additional Information:

www.groundwater.ca.gov

DWR - www.water.ca.gov/groundwater

State Board -

http://www.waterboards.ca.gov/water\_issues/programs/gmp/index.shtml

#### Lyris email alert list:

http://www.swrcb.ca.gov/resources/email\_subscriptions/swrcb\_subscribe.shtml