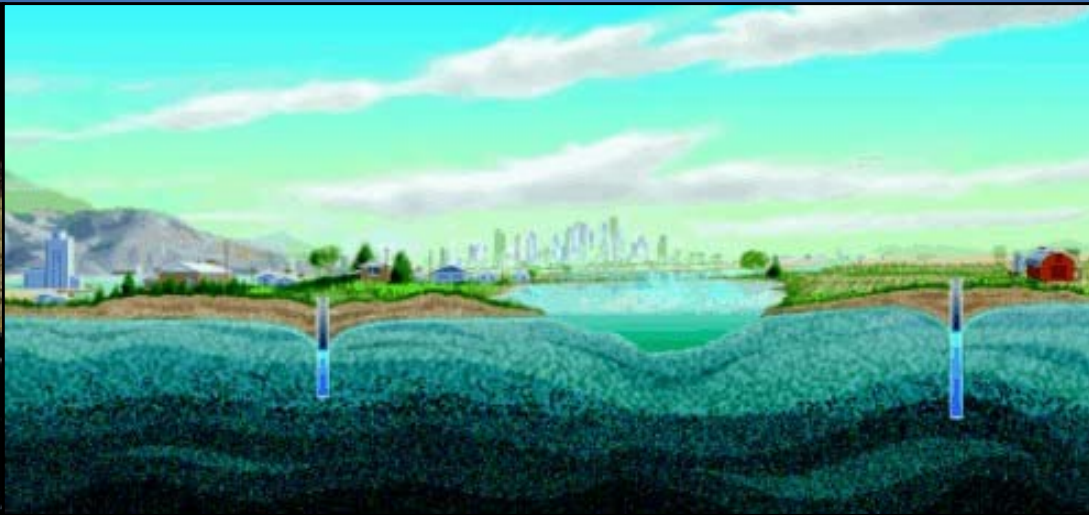


DWR's Sustainable Groundwater Management Implementation

Presentation to East Bay Plain Basin Stakeholder Group



Hong Lin and Bill Brewster
January 11, 2015
Oakland, CA

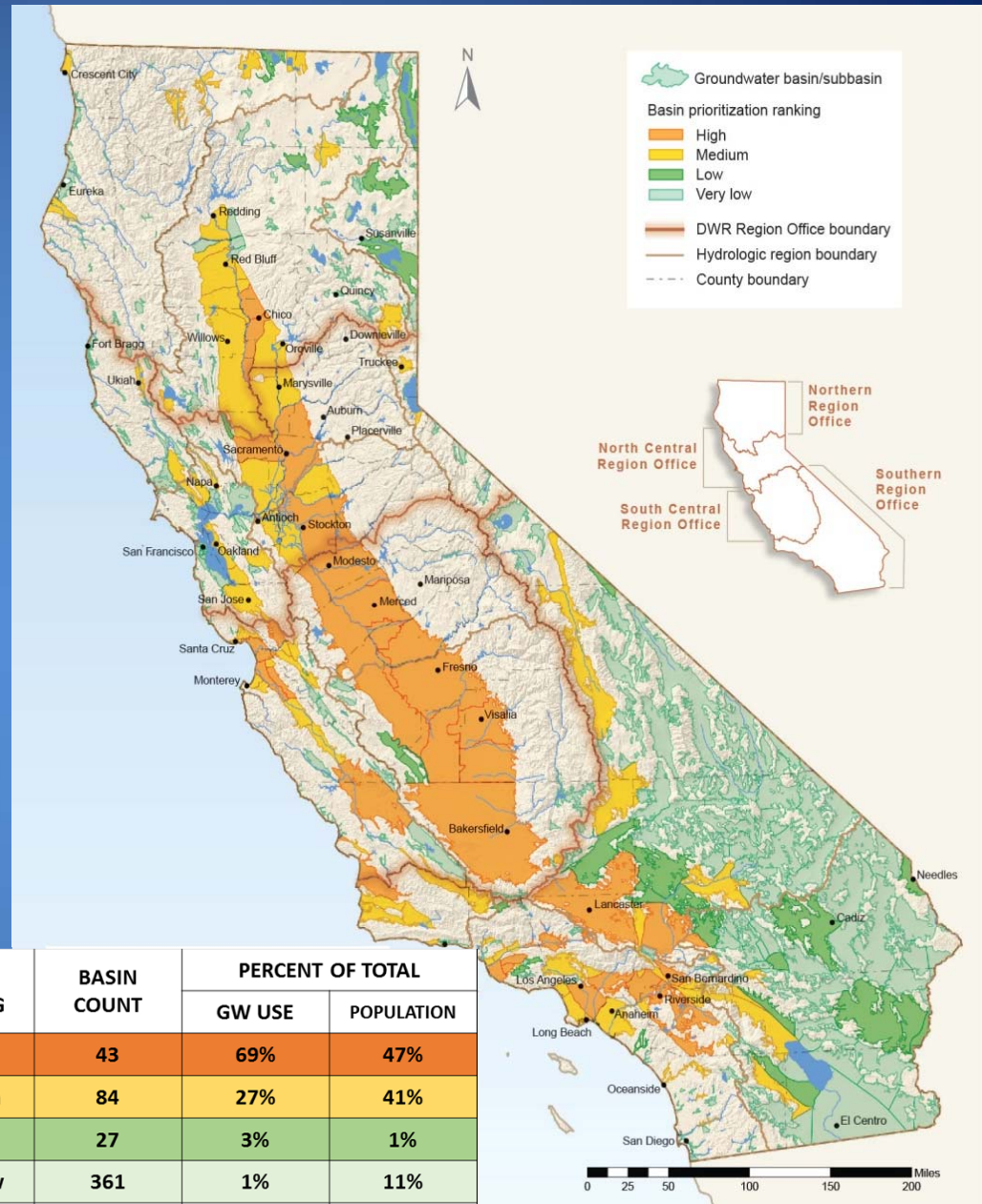
Presentation Outline

- SGMA Background
- DWR Sustainable Groundwater Management Program
- Groundwater Sustainability Agency
- DWR SGMA Tools

SGMA 2014

- Requires Groundwater Sustainability Plans in **127** high- and medium-priority basins
- Authorizes management tools for local agencies
- Creates State “backstop”
- Defines time frame for accomplishing goals

Does not apply to adjudicated basins



BASIN RANKING	BASIN COUNT	PERCENT OF TOTAL	
		GW USE	POPULATION
High	43	69%	47%
Medium	84	27%	41%
Low	27	3%	1%
Very Low	361	1%	11%
Totals	515	100%	100%

Basin Prioritization Results – June 2, 2014

Groundwater Sustainability



*Undesirable Results:
Significant and unreasonable...*

Lowering of
Groundwater
Levels

Reduction of
Groundwater
Storage

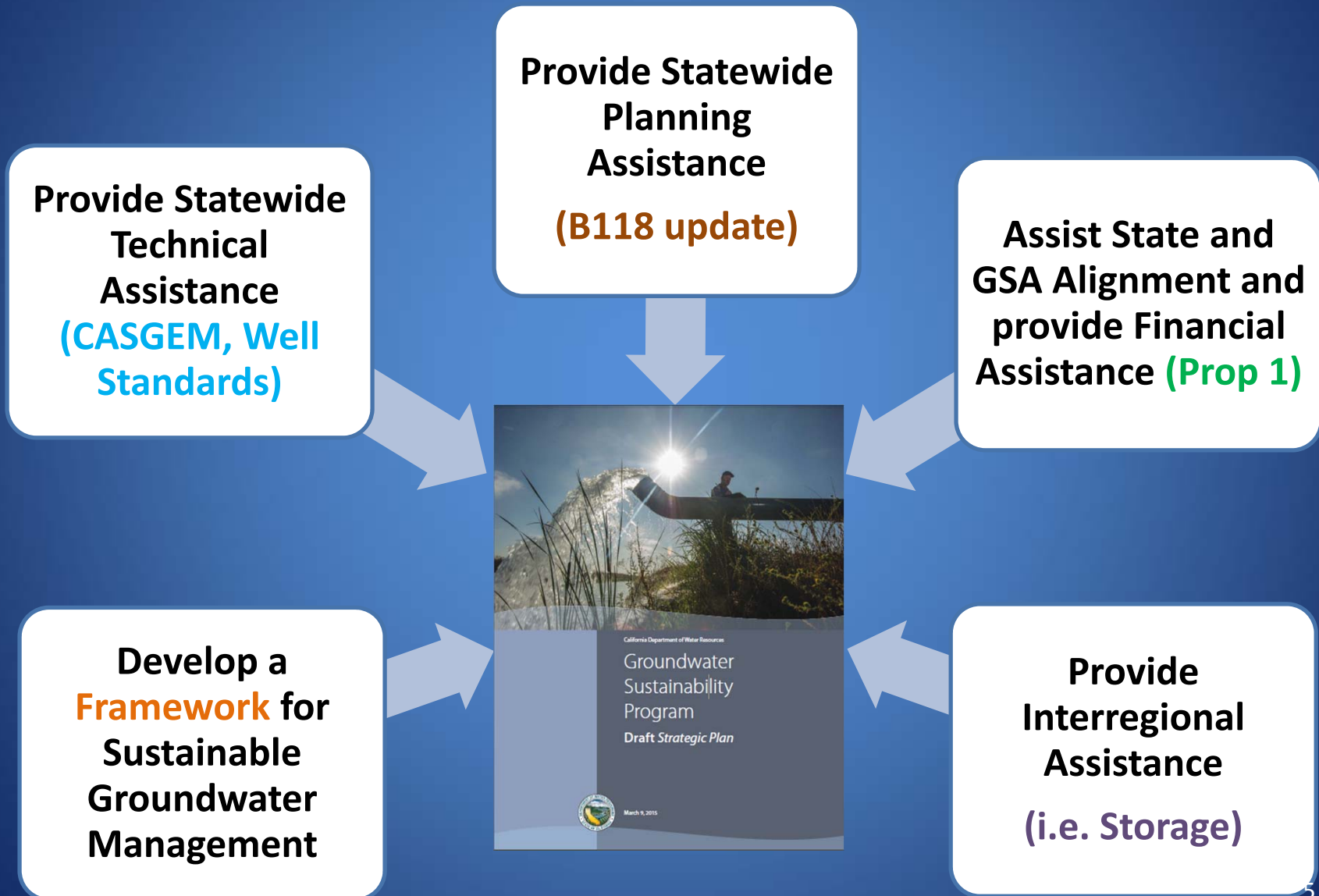
Seawater
Intrusion

Water Quality
Degradation

Land
Subsidence

Depletions of
Surface Water

DWR's Sustainable Groundwater Management Program



DWR Near-term Actions

Jan.
2015

- Basin Prioritization

Nov.
2015

- Basins in Critical Conditions of Overdraft

Jan.
2016

- Basin Boundary Regulations

Jun.
2016

- GSP Regulations and & Alternative to GSPs

Dec.
2016

- Water Available for Groundwater Replenishment

Jan.
2017

- Bulletin 118 Interim Update/BMPs

2020

- Bulletin 118 Comprehensive update

Roles and Responsibilities



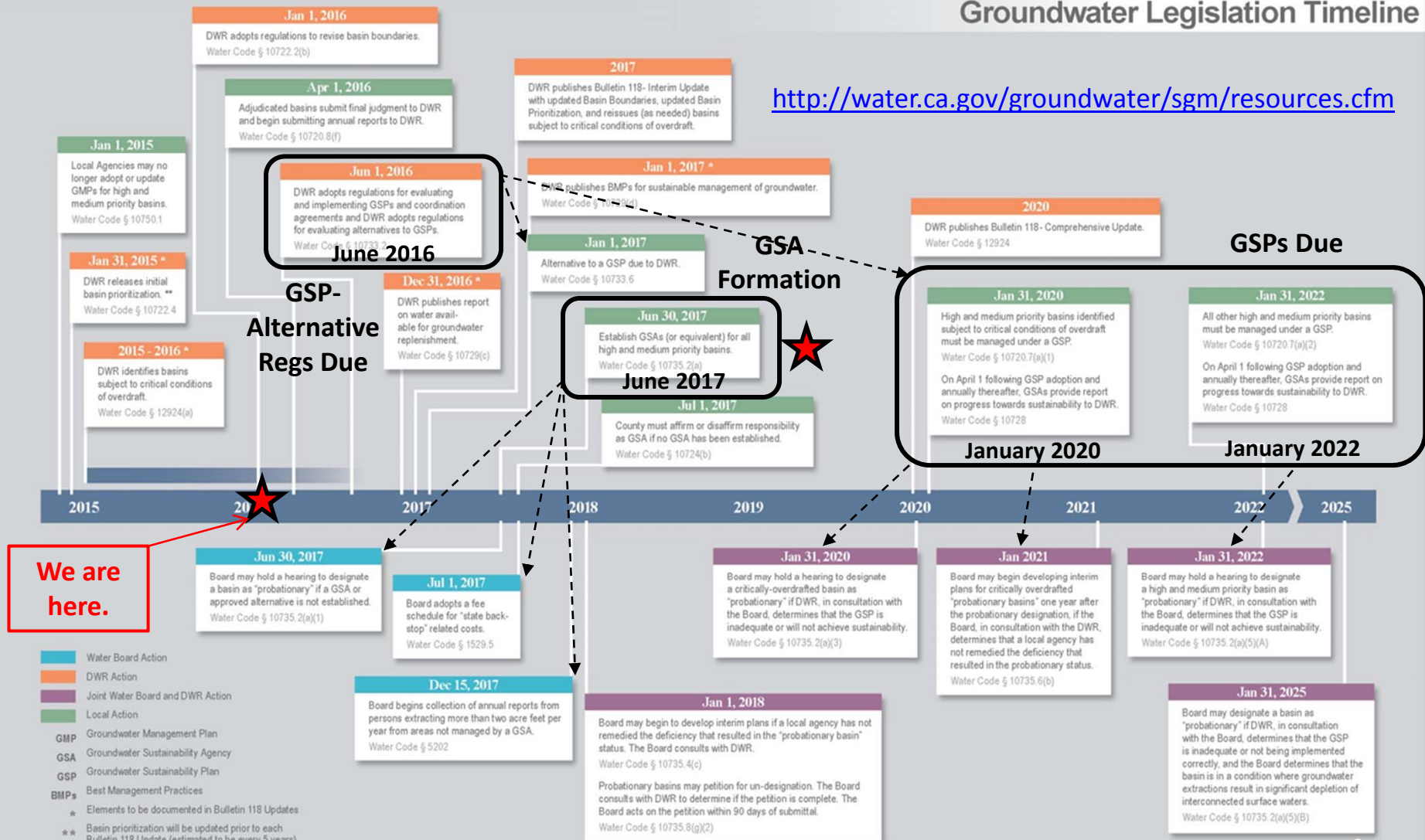
Groundwater Sustainability Agency

- What is a GSA?
- Who can be a GSA?
- GSP Options & GSA Coordination
- Senate Bill 13 Legislative Changes to SGMA
- DWR's Completeness Review
- Tools for Local Agencies

SGMA milestones (2015-2025)

Groundwater Legislation Timeline

<http://water.ca.gov/groundwater/sgm/resources.cfm>



We are here.

What is a GSA?

Water Code §10721

- “Groundwater sustainability agency” means one or more local agencies that implement Sustainable Groundwater Management
- “Local agency” means a local public agency that has water supply, water management, or land use responsibilities within a groundwater basin.

Who can be a GSA?

Chapter 4 of SGMA, Water Code §10723 et seq.

- **§10723(a)**: Except as provided in subdivision (c), **any local agency or combination of local agencies** overlying a groundwater basin may decide to become a GSA for that basin.
 - Local agencies must consider their service area boundaries when deciding to also become a GSA.
 - “Service Area” is not defined in SGMA.
- **§10723(c)** identifies 15 “exclusive” local agencies that can manage groundwater with their statutory boundaries.
 - These 15 agencies must still form a GSA.
 - Any of these 15 agencies can opt-out of this role.

Who can be a GSA?

Chapter 4 of SGMA, Water Code §10723 et seq.

- **§10723.6(a):** A combination of local agencies may form a GSA by using any of the following methods:
 - A joint powers agreement (**JPA**)
 - A memorandum of agreement or other legal agreement (i.e., a **MOU**)
- **§10723.6(b):** A water corporation regulated by the Public Utilities Commission or a mutual water company may participate in a GSA through a memorandum of agreement or other legal agreement.

GSP Options (§ 10727)

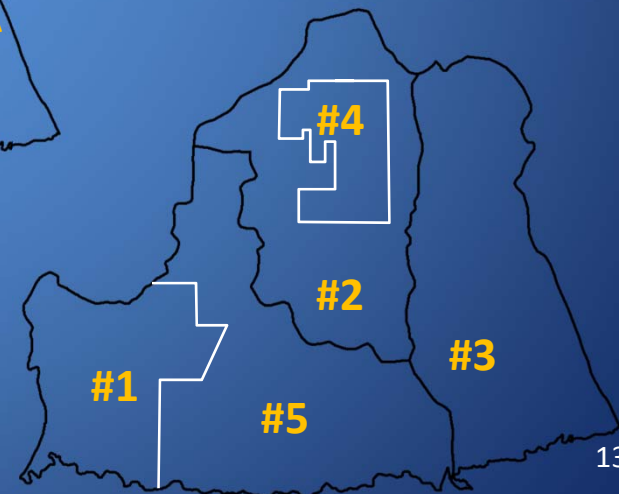


One GSA
One GSP



Many GSAs
One GSP

Many GSAs
Many GSPs with a
Coordination
Agreement



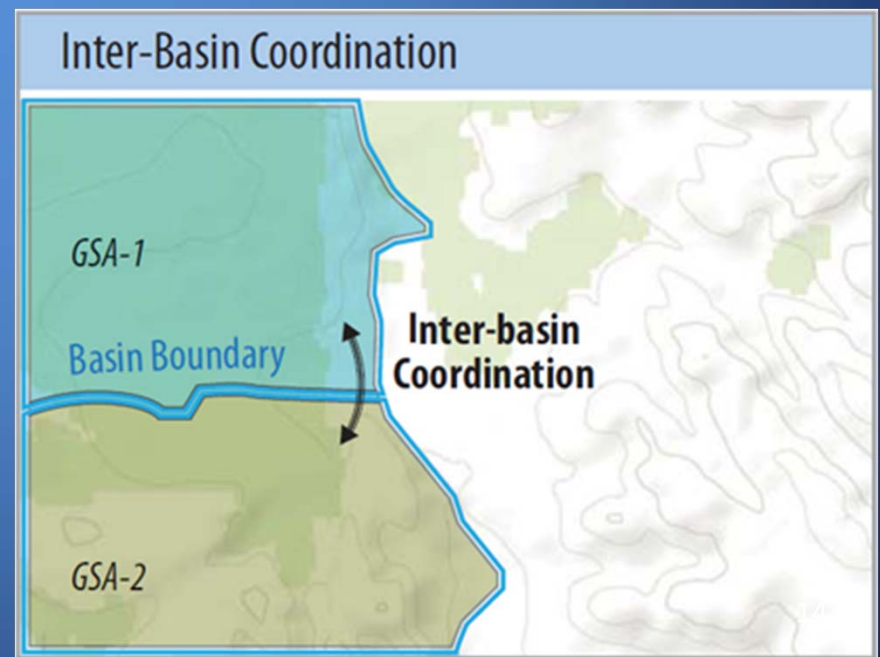
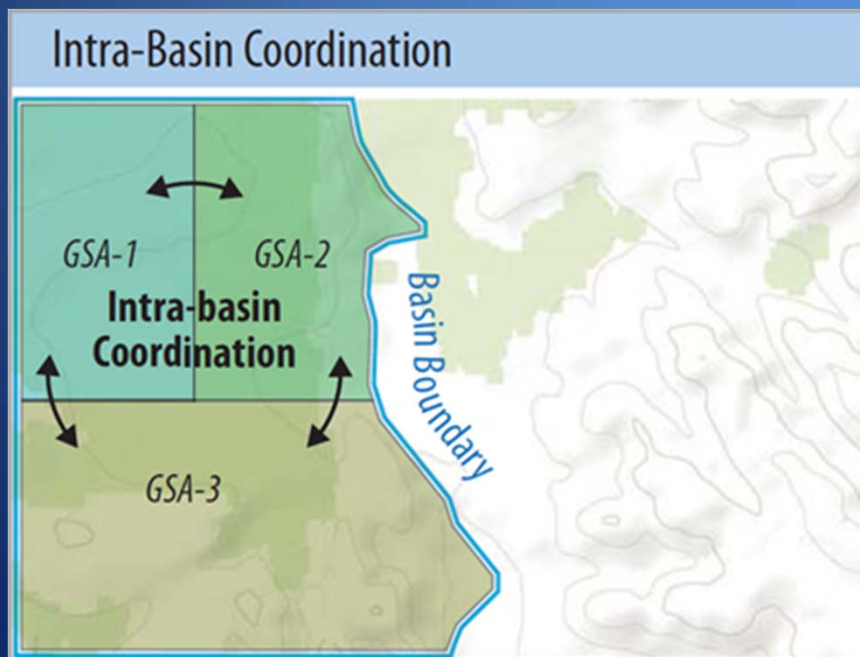
GSA – Coordination Requirements

Water Code §10727.6

- Intra-basin coordination is required when multiple GSAs develop multiple GSPs.
- Requires GSPs use **same data and methodologies**

Water Code §10733(c)

- DWR shall evaluate whether a GSP adversely affects the ability of an adjacent basin to implement its GSP.



Intra-basin Coordination

Water Code §10727.6

Same data and methodologies for the following:

- Groundwater elevation data
- Groundwater extraction data
- Surface water supply
- Total water use
- Change in groundwater storage
- Water budget
- Sustainable yield



Considerations for Forming GSA

- Management authorities, responsibilities and activities
 - Chapter 5 (Powers and Authorities)
 - Chapter 8 (Financial Authority)
 - Chapter 9 (GSA Enforcement Powers)
- Prepare and implement a GSP (Chapter 6)
- Public outreach and stakeholder engagement

Potential Regulation Components

Overview

Potential Regulation Content

Stakeholder Input

Governance & Coordination

"Who is managing & participating"

Governance
Coordination
Land Use

All Topics

6 - Coordination Agreements

7 - State Agency Coordination

8 - Water Budgets and Coordination

3 - Land Use & County Involvement

Basin Setting

"What are the current conditions"

Basin Conditions

2- Pre SGMA Conditions and Undesirable Results

SGM Planning

"How will GW be managed & measured"

Sustainability Goal (Sustainable Yield, SGM)
Measurable Objectives & Undesirable Results
Monitoring Plan

1 - Measurable Objectives

2- Pre SGMA Conditions and UR's

8 - Water Budgets and Coordination

10 - Adaptive Mgt. and Focus Areas

1 - Measurable Objectives

2- Pre SGMA Conditions and UR's

9 - Data Collection, Mgt., & Reporting

Evaluation

"Reporting, Evaluation, & Adaptive Management"

Implementation & Reporting

9 - Data Collection, Mgt., & Reporting

10 - Adaptive Mgt. and Focus Areas

Equivalent GSPs

Alternative GSPs & Fringe Areas

4 - Alternative GSP

5 - Boundaries, Overlapping & Unmanaged Areas

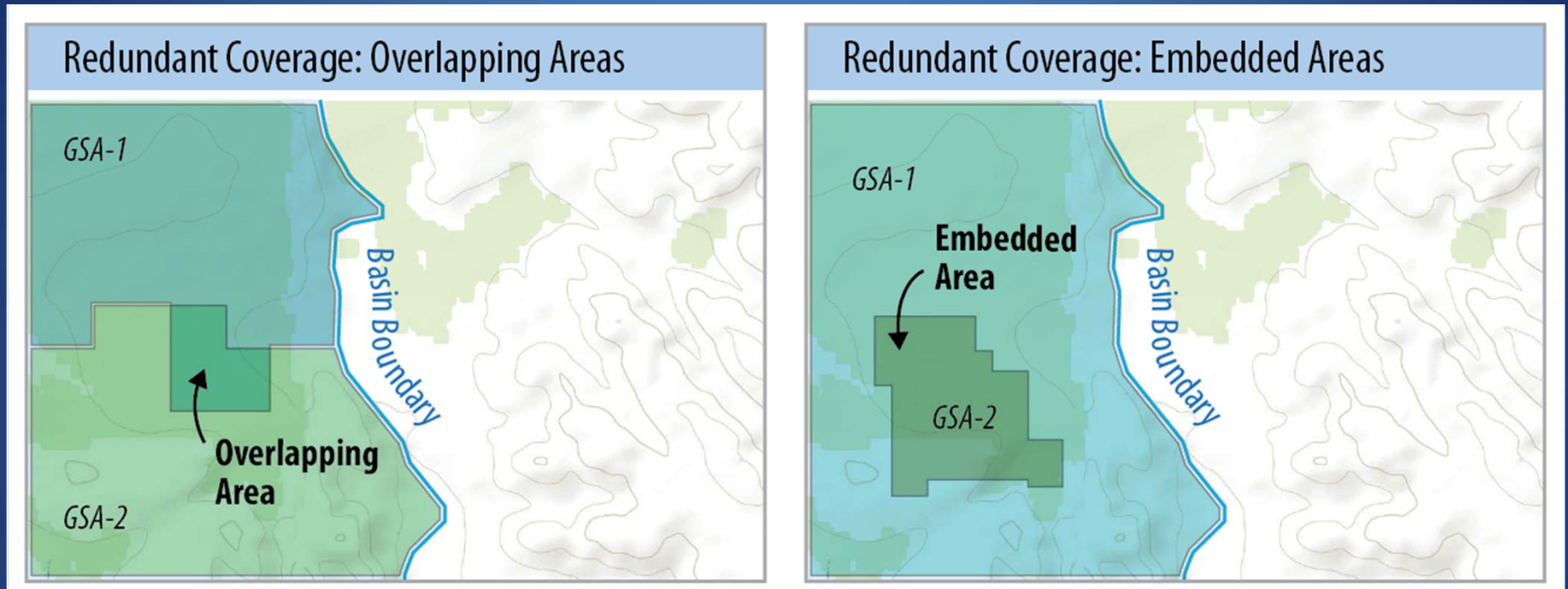
SB 13 Legislative Changes to SGMA

Senate Bill 13 amendments to SGMA

As They Pertain to GSA Formation

- Removed the Notice of Intent to be a GSA.
- Allows a mutual water company to be part of a GSA through a legal agreement.
- Addresses GSA overlap.
- Addresses service area boundaries.
- Says a local agency cannot impose fees or regulatory requirements on entities outside the local agency's boundaries.
- Requires DWR to post all "complete" notices within 15 days of receipt.

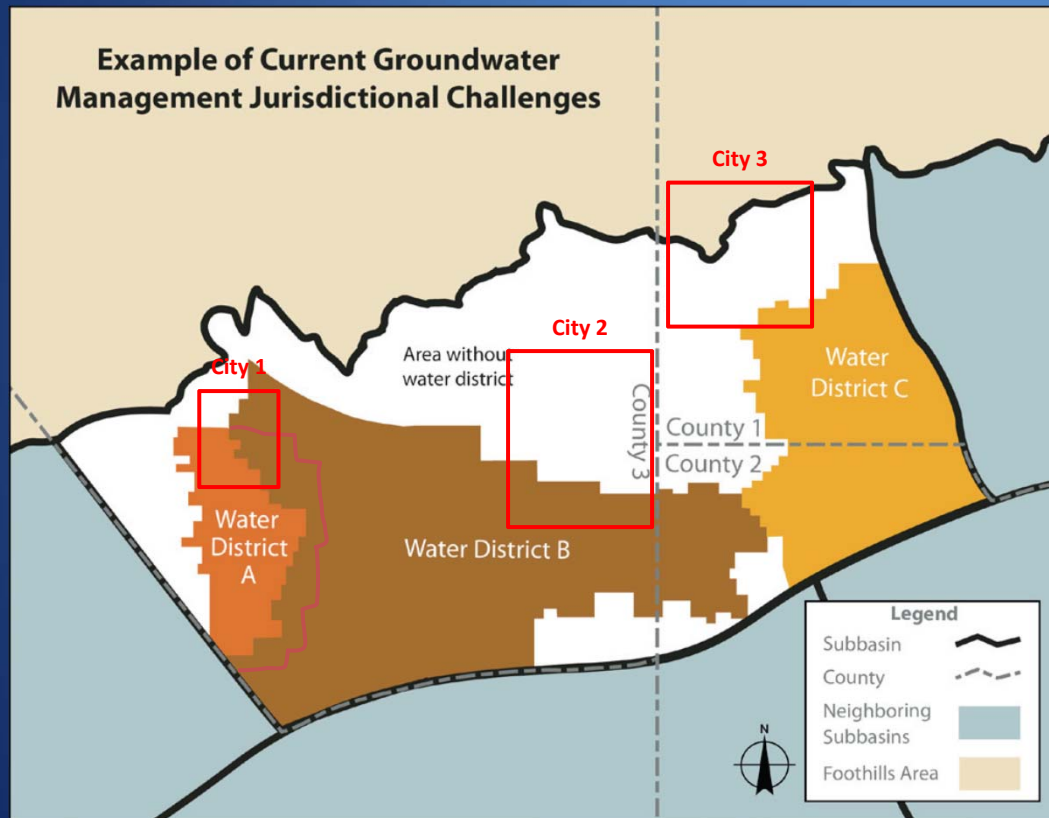
Examples of Overlapping Service Areas



- GSA 1 is formed – DWR posts GSA notification on 1/15/2016 and the 90-day period ends 4/14/2016.
- GSA 2 is formed – DWR posts notification on 2/1/2016:
 - If no overlap exists, the 90-day period ends 5/1/2016.
 - If overlap occurs, then both GSA 1 and GSA 2 must comply with 10723.8(c).
- “Material changes” could be required to eliminate overlap.

Example of Jurisdictional Challenges

Potential for Service Area Conflicts



Source: California Water Foundation (September 2015) and Water Education Foundation (October 2015)

- One basin or subbasin can have multiple:
 - Counties
 - Cities
 - Local Agencies
 - GSAs
- A GSP cannot supersede the land use authority of cities or counties – §10726.8(f)
- All GSA-eligible agencies should coordinate and collaborate

DWR's Completeness Review Pursuant to SB 13

What is A “complete” GSA notification?

Water Code Section 10723.8(a)

A local agency that decides to become or form a GSA must submit the following to DWR for review:

1. Information that clearly shows the GSA formation notification was submitted to DWR within 30 days of the decision to become or form a GSA.
2. A map and narrative indicating (1) the service area boundaries, (2) the boundaries of the basin or portion of the basin the agency intends to manage, and (3) the other agencies managing or proposing to manage groundwater within the basin.
3. A copy of the resolution forming the new agency.
4. A copy of any new bylaws, ordinances, or new authorities developed by the local agency.
5. A list of the interested parties developed pursuant to Water Code Section 10723.2 and a detailed explanation how the GSA will consider the interests of all beneficial uses and users of groundwater, as well as those responsible for implementing GSPs.

DWR Completeness Review

SB 13 becomes law on January 1, 2016. Local agencies that have already submitted notifications to DWR are not exempt from review.

1. DWR will review all GSA formation notifications for completeness.
2. Incomplete notifications will not be posted.
3. Complete notifications will be posted on GSA Formation Table.
4. DWR will show the posting date which establishes the 90-day period for that portion of the basin.
5. If no other GSA is formed within 90 days, the period is closed.
6. If another GSA is formed within the 90-day period, and that GSA results in an overlap, both notifications will be identified as “overlap status.”
7. The 90-day period is stopped for overlapping notifications.
8. Local agencies must comply with 10723.8 before GSA formation can proceed.

Water Management Planning Tool

<http://water.ca.gov/groundwater/boundaries.cfm>



Water Management Planning Tool

Boundaries Map


[Clear all](#) [Help](#)

- County Boundaries
- Region Office Service Areas
- Hydrologic Regions
- Prop 1 Funding Areas
- Prop 84 Funding Areas
- Regional Water Quality Control Board Boundaries
- Tribal Lands
- Military Installations, Ranges, and Training Areas
- Regional Flood Planning Boundaries
- Reclamation Districts
- CA State Park Lands
- CA Coastal Commission Lands
- Adjudicated Groundwater Basins
- CASGEM Designated Monitoring Entities as of 08-19-15
- CASGEM Groundwater Basin Prioritization
- Groundwater Management Plans
- IRWM Regions
- Federal Lands
- Disadvantaged Community Block Groups
- Disadvantaged Community Tracts
- Disadvantaged Community Places
- Water Agencies
- Bulletin 118 Groundwater Basins
- Detailed Analysis Units
- Water Plan Planning Areas
- Watersheds
- CA Senate Districts
- CA Assembly Districts



Groundwater Basin Boundary Assessment Tool



<https://gis.water.ca.gov/app/bbat/>

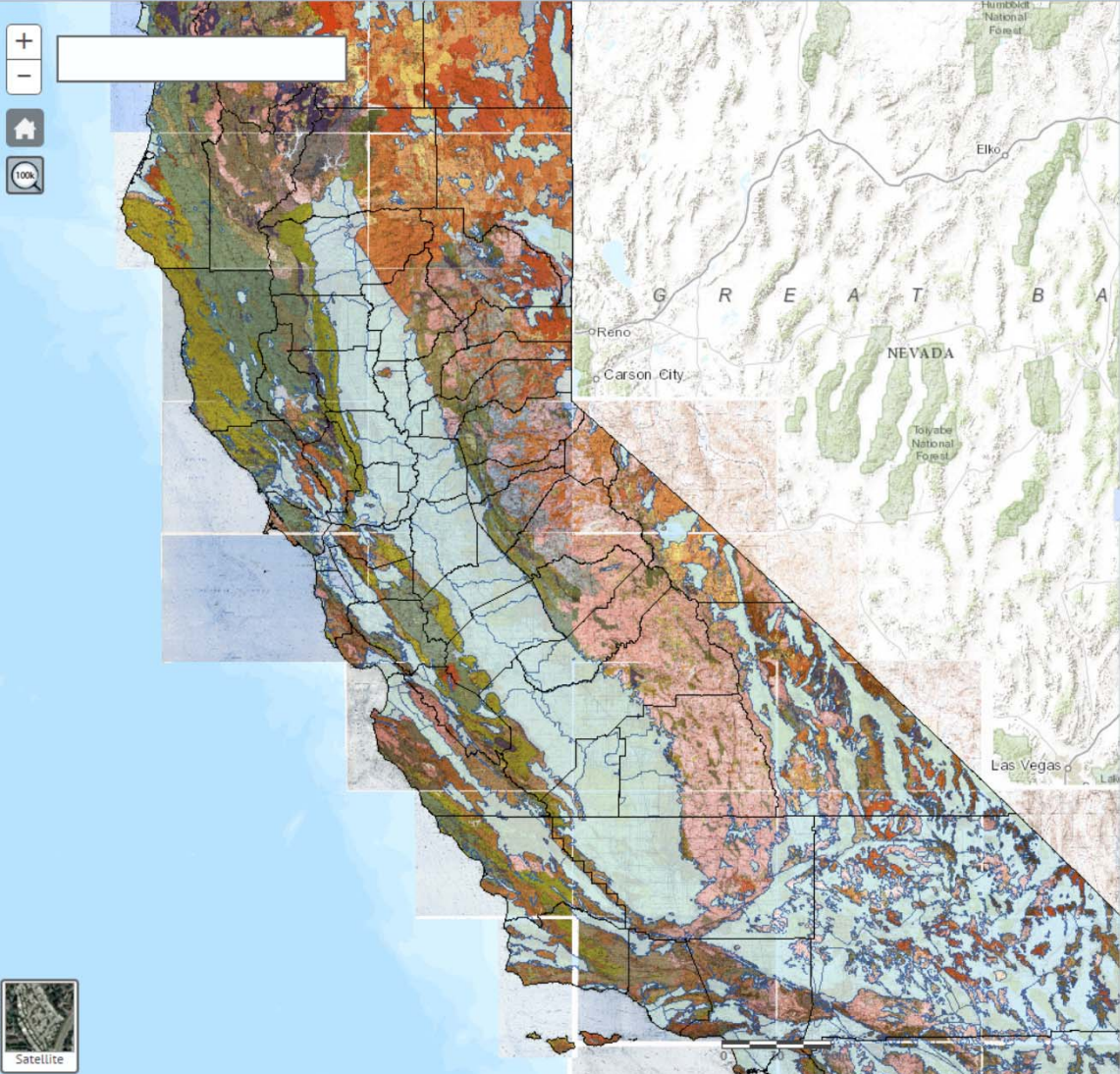


Groundwater Basin Boundary Assessment Tool

DWR Boundary Assessment | **Boundary References** | Geology References

Boundary References Clear all

- County Boundaries
 County Boundary
- Region Office Service Areas
- Hydrologic Regions
- Prop 1 Funding Areas
- Regional Water Quality Control Board Boundaries
- Tribal Lands
- Military Installations, Ranges, and Training Areas
- Regional Flood Planning Boundaries
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- Disadvantaged Community Places
- Water Agencies
- Bulletin 118 Groundwater Basins
 Bulletin 118 Groundwater Basins
- Watersheds



Map showing Groundwater Basin Boundary Assessment Tool interface. The map displays various boundary types and geographic features across California, including the Great Basin and Nevada. Key locations like Reno, Carson City, Elko, and Las Vegas are marked. The map includes a search bar, zoom controls, and a home button.

Boundary References

Click on features in the map or see below for more information:

DATA DISCLAIMER

All information provided by the Department of Water Resources on its Web pages and Internet sites, is made available to provide immediate access for the convenience of interested persons. While the Department believes the information to be reliable, human or mechanical error remains a possibility. Therefore, the Department does not guarantee the accuracy, completeness, timeliness, or correct sequencing of the information. Neither the Department of Water Resources nor any of the sources of the information shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information.

Below are brief descriptions to the layers contained in the map:

County Boundaries This layer depicts the boundaries of California's Counties as developed by CAL FIRE.

Region Office Service Areas This layer depicts The coverage Area of DWR's Region Offices. [More Info...](#)

Hydrologic Regions This layer depicts the 10 areas representing the major California watersheds and is used by a variety of DWR programs including the CA Water Plan. [More Info...](#)

Prop 1 Funding Areas This layer depicts the 12 funding areas called out in Proposition 1. [More Info...](#)

Regional Water Quality Control Board Boundaries This layer depicts the boundaries of the 9 Regional Water Quality Control Boards. [More Info...](#)

Tribal Lands This layer depicts Tribal Lands in the State of California. This layer includes: Historical location of Indian land

Basin Boundary Modification Request System

Local Agency Submissions Tools

**Click Here to Submit
Initial Notification**
(Pursuant to Section 343.9)

**Click Here to Submit Basin Boundary
Modification Request**
(Submission Period:
January 1, 2016 through March 31, 2016)

Public and Interested Party Tools

View List of Submitted Initial Notifications

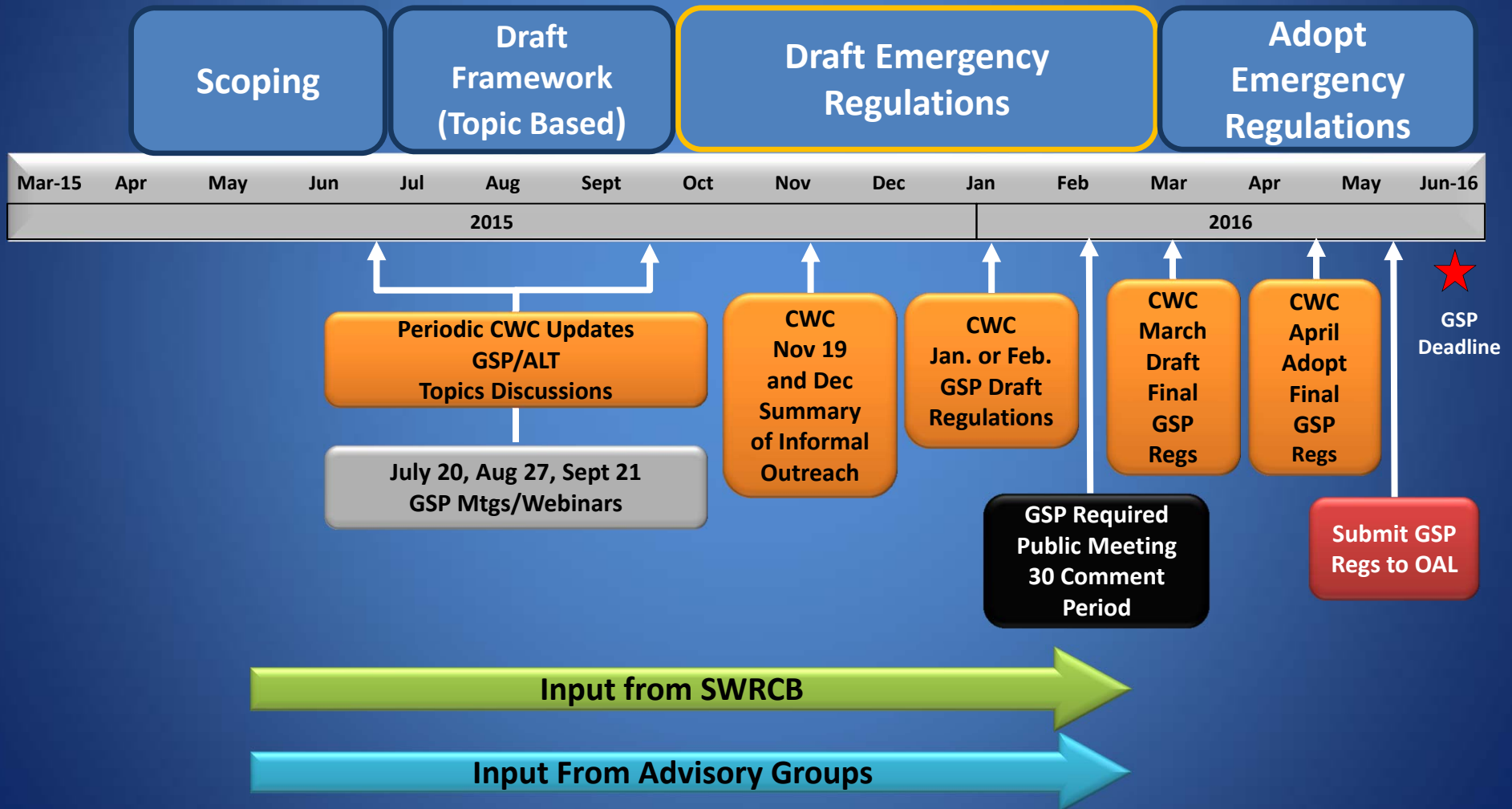
View List of Submitted Modification Requests

View Map of Submitted Initial Notifications

View Map of Submitted Modification Requests

If you are interested in being informed when Basin Boundary Modifications related Actions or any other SGM Program actions are made, please subscribe to email listserv here: <http://www.water.ca.gov/groundwater/sgm/subscribe.cfm>

Groundwater Sustainability Plan (GSP) Emergency Regulations – Detailed Timeline



Dates and Durations are Subject to Change

Web Resources

- **DWR Sustainable Groundwater Management (SGM)**
<http://www.water.ca.gov/groundwater/sgm/index.cfm>
- **DWR GSP Emergency Regulation Website**
<http://www.water.ca.gov/groundwater/sgm/gsp.cfm>
- **Subscribe to DWR SGM Email List**
<http://www.water.ca.gov/groundwater/sgm/subscribe.cfm>
- **DWR Region Office Contacts**
<http://www.water.ca.gov/groundwater/gwinfo/contacts.cfm>
- **Questions or Comments**
sgmps@water.ca.gov

Extra slides

Basin Boundary Modification Regulations

- Emergency Regulations to establish a **Process** for Local Agencies to request changes to existing Basin Boundaries
 - **Scientific** - Based on Geologic or Hydrologic Conditions that Define the Basin
 - **Jurisdictional** - Promote Sustainable Groundwater Management.

Basin Boundary Modifications

- **October 21** – CWC Adopted Proposed Emergency Regulations
- **November 16** – Regulation became effective
- **January 1, 2016** – DWR Starts Accepting Boundary Modification Requests (3 Month period).
- **Sep. 2016*** – DWR Approves Draft List of Boundaries and Presents to CWC to Hear and Comment.
- **Early 2017*** – DWR Approves & Publishes Final Boundaries
- **Future Revisions to Regulations.** – Re-adopted by CWC.

**Estimated – Subject to Change*

Groundwater Sustainability Plans

SGMA GSP Requirements

- **By June 1, 2016, DWR shall adopt regulations for:**
 - Evaluating GSP
 - Implementation of GSP
 - Coordination agreements
- **The regulations shall identify:**
 - Required Plan Components (§ 10727.2)
 - Additional Plan Elements (§ 10727.4)
 - Coordination of Multiple GSPs in Basin (§ 10727.6)
 - Other information that will assist local agencies in developing and implementing GSPs and coordination agreements.
- **The department may update the regulations, including to incorporate the best management practices (§ 10729)**

GSP/ALT Regulations

Sustainable Groundwater Management

Required for All High and Medium Priority Basins (127)

GSP

- Covers Entire Basin
- Multiple GSPs Require Coordination Agreement
- Submitted by GSA(s)
- Annual Reporting
- 5 Year Evaluation
- Submitted to DWR by
 - 1/31/2020 (Critical Overdrafted)
 - 1/31/2022 (all other High/Medium Priority)

Alternative Plan

- Covers Entire Basin
- Submitted by Local Agency or GSA
- Eligibility:
 1. Existing GMP
 2. Adjudication
 3. Basin Operated within Sustainable Yield for 10 years
- CASGEM Compliant
- Annual & 5 Year Reporting
- Submitted to DWR by 1/1/2017

GSP Regulations – 10 Issue Topics

**Phase 1 –
Scoping
(Collection
of Issues)**

All 10 +
Topics
(May-Jun)

**Phase 2 –
Draft
Discussion
Papers and
Public
Informational
Sessions**

1st Batch
(Jun-Jul)

2nd Batch
(Jul-Aug)

3rd Batch
(Aug-Sep)

