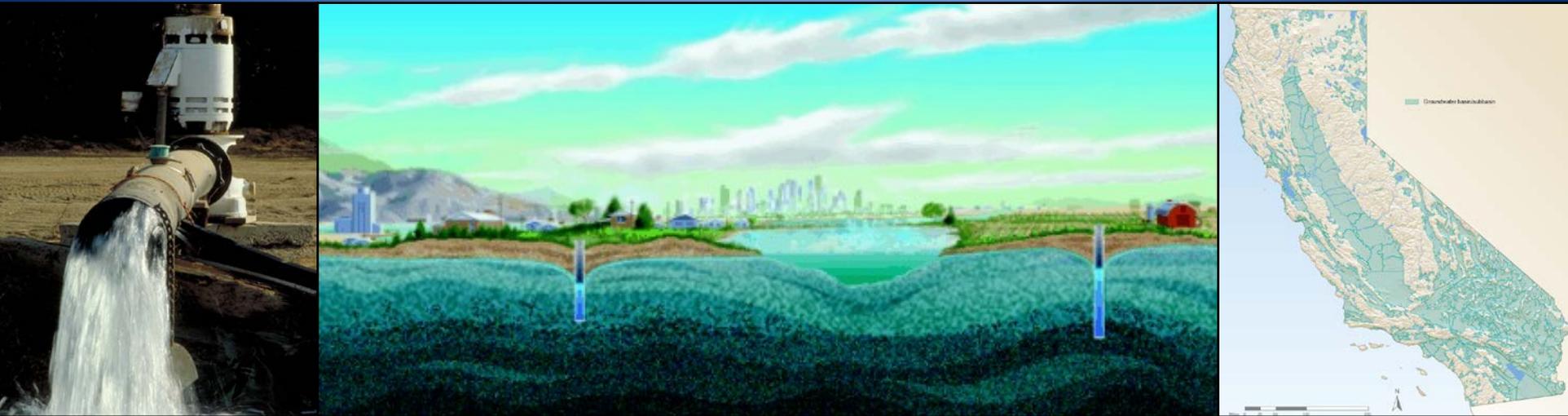


DWR's Sustainable Groundwater Management Implementation

- Basin Boundary Regulations Update -



California Water Commission
July 15, 2015
Sacramento, CA

Presentation Overview

- **Draft Regulations Process Update**
- **Overview of Draft Regulations**
- **Next Steps**

Draft Regulations Process Update

Basin Boundary Regulations Process

Jan-April

April-May

July-Sept

Scoping

- Notify OAL
- Collect Issues from Stakeholders
- Coordinate with SWRCB & CWC

Draft Framework

- Public Listening Sessions
- Present and Receive Input from Advisory Groups and Public

Draft Emergency Regulations

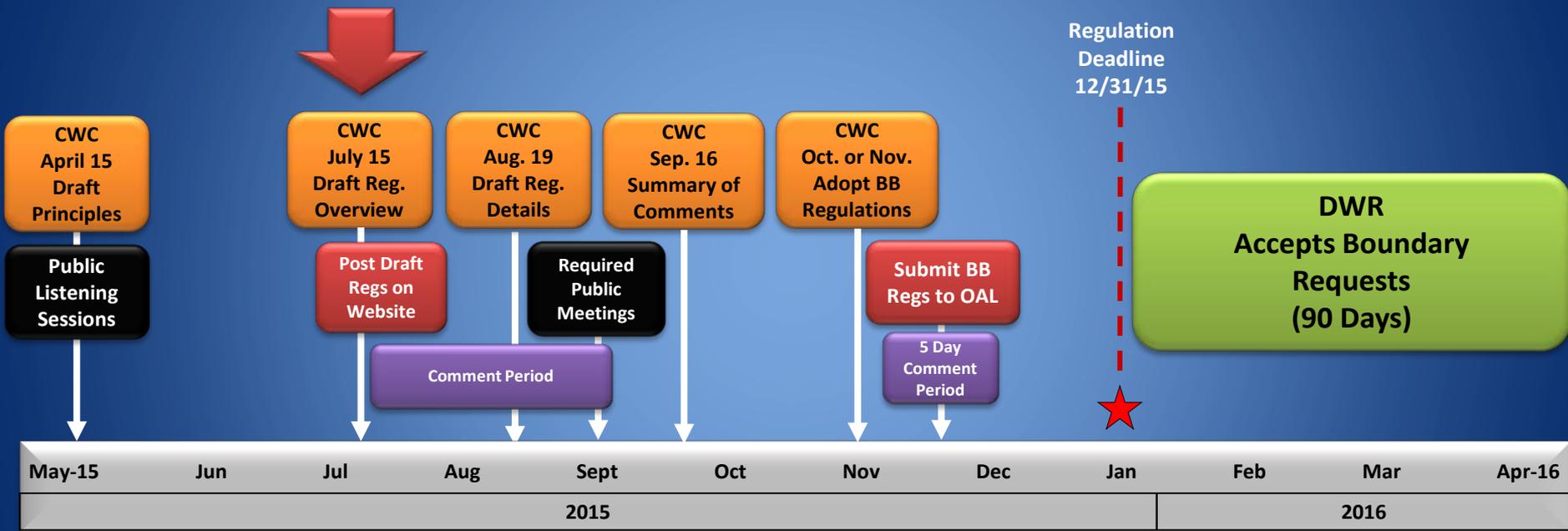
- Required Public Meetings
- Present and Receive Input from Advisory Groups and Public

Adopt Emergency Regulations

- CWC Approval
- Noticing and Submittal to OAL

Input and Feedback from the CWC and SWRCB

Basin Boundary Regulations Estimated Timeline



*Informal
Comments*

*Formal
Rulemaking*

*Basin Boundary Regs.
Operational*

How to Provide Input

- **DWR Welcomes Feedback on Draft Regulations**

- Email & Written Comments
- CWC Meetings (Aug.-Oct.)

- **DWR will be Holding Three Public Meetings**

- Sacramento (8/31)
- Bakersfield (9/2)
- Orange County (9/3)

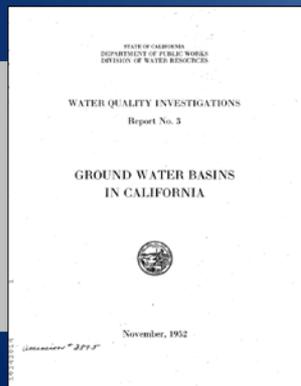
The screenshot shows the California Department of Water Resources website. The main heading is "Public Comments - Basin Boundary Regulations". Below this, there is a section titled "How to Provide Input" which states: "During the comment period, DWR is soliciting feedback on the draft emergency regulations. Please submit comments by email to DWR at sgmips@water.ca.gov or send a hardcopy via postal mail, to the following address, postmarked by September 12, 2015." The address listed is: California Department of Water Resources, Attn: Sustainable Groundwater Management Section, P.O. Box 942636, Sacramento, CA 94236. Below this is a section titled "Comments Received on Basin Boundary Emergency Regulations" which includes a search bar and a table with columns for "Comment Received From", "Comment", and "Date". The table shows one entry. A sidebar on the right contains a "GROUNDWATER HOME" section with links to "SUSTAINABLE GROUNDWATER MANAGEMENT", "Basin Boundary Regulations", "Public Listening Sessions", "Public Comments", "Groundwater Sustainability Agencies", "GSA Notifications", "Groundwater Sustainability Plan Regulations", "Initial Basin Prioritization", "Communication and Outreach", "Advisory Groups", "Statewide SGMA Calendar", "Region Office Contacts", "Subscribe for Email Updates", "Resources", and "Facilitation Support Services".

http://www.water.ca.gov/groundwater/sgm/basin_boundaries.cfm

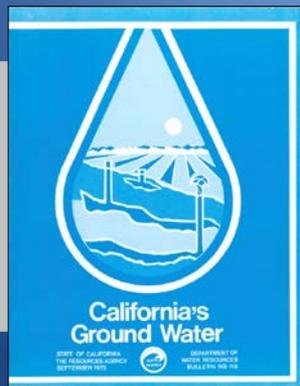
Overview of Draft Regulations

CA Groundwater Basins

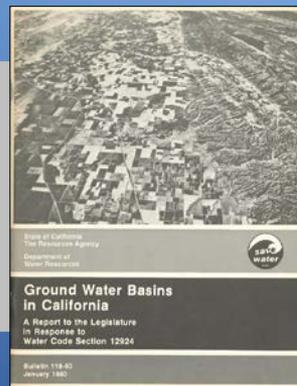
- Groundwater Basins & Subbasins Are Defined in DWR Bulletin 118 Using the Best Available Data
- Modifications to Basin Boundaries Have Occurred During B-118 Updates (Water Code § 12924)



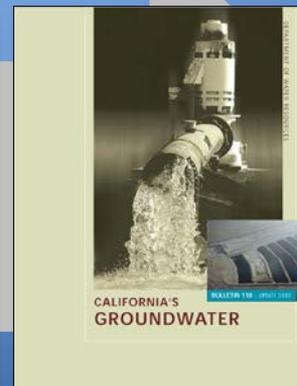
1952



Bulletin 118
1975



Bulletin 118
1980



Bulletin 118
2003

SGMA Requirements

WC §10722

- **Emergency Regulations to Establish a Process For Local Agencies to Request Changes to Existing Basin Boundaries**
 - **DWR Shall Adopt by January 1, 2016**
 - **Instructions to Local Agencies on Submittal of:**
 1. Information demonstrating proposed basin can be sustainably managed
 2. Technical information on boundaries and conditions in proposed basin
 3. Consultation with interested local agencies and public water systems in the affected basins
 4. Other information DWR deems necessary to justify revision
 - **Methodology and Criteria on how to assess:**
 1. Likelihood proposed basin can be sustainably managed
 2. Whether proposed basin would limit the SGM of adjacent basins
 3. Whether there is a history of SGM of groundwater levels in the proposed basin

Key Points

Regulatory Intent

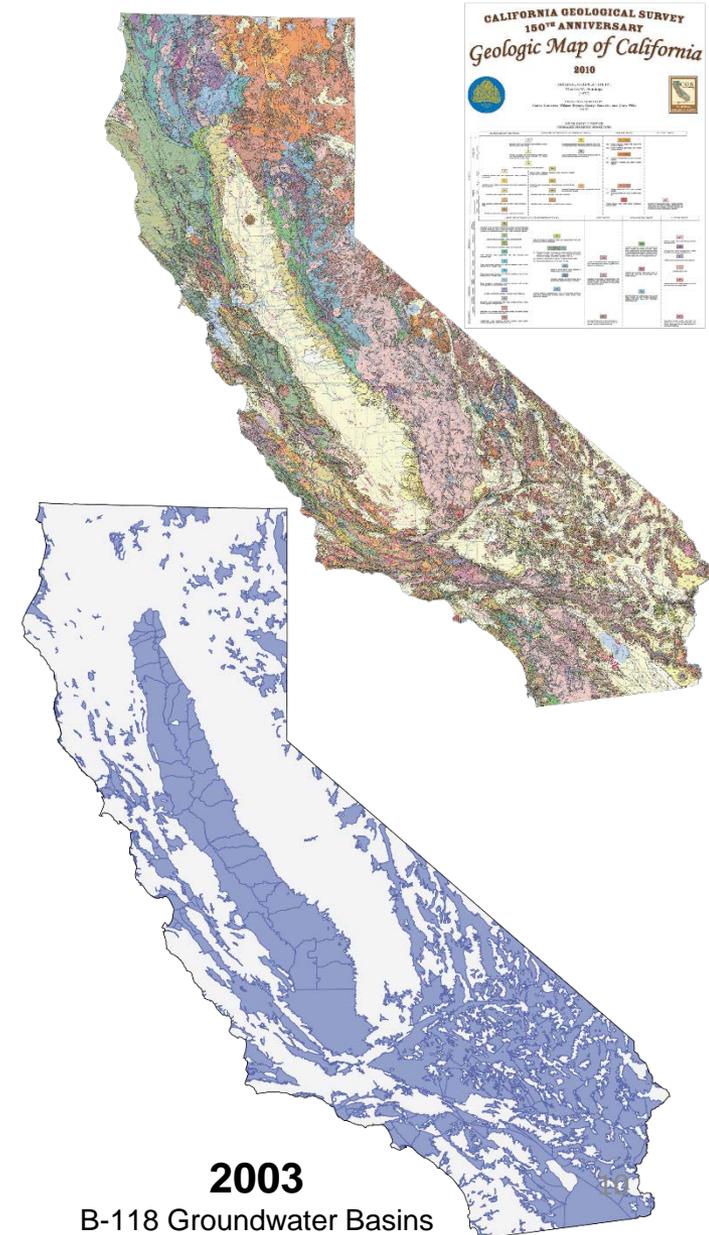
- Statewide Sustainable Groundwater Management
- Open and Transparent Process

Technical

- Complex Statewide Hydrogeology
- Basin Boundaries Last Updated in 2003
- Previous Boundaries used for Voluntary Planning
- Varying Levels of Detail in Existing B-118 Dataset
- Results in High Variability of Potential Modifications

Administrative

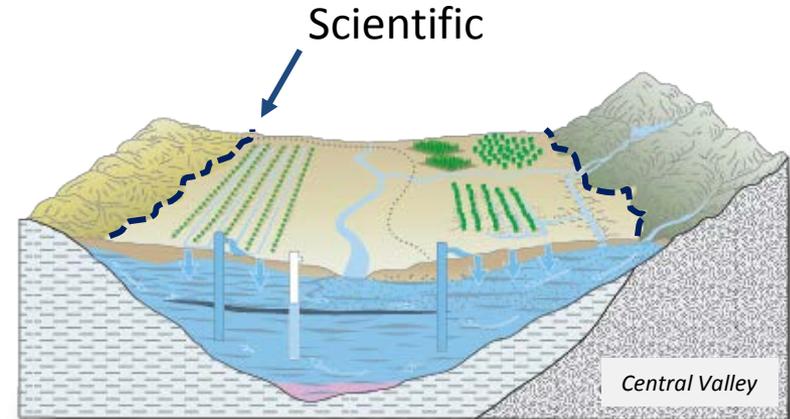
- Only Local Agencies can Request Modifications
- Local Agency Requests are Voluntary



Key Definitions

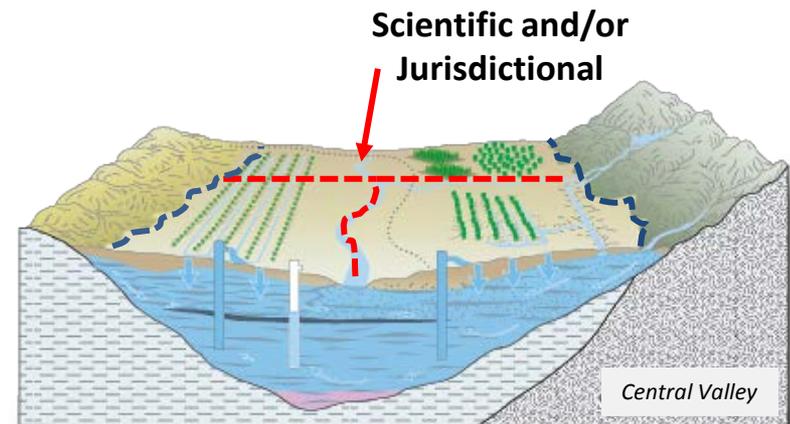
➤ SGMA Definitions

➤ **Groundwater Basin** – An alluvial aquifer or a stacked series of alluvial aquifers with reasonably well-defined boundaries in a lateral direction and having a definable bottom



Modified from Faunt, 2009

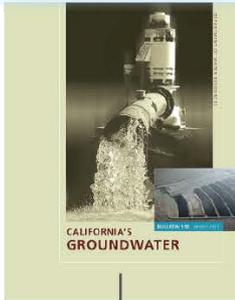
➤ **Groundwater Subbasin** – A subbasin is created by dividing a groundwater basin into smaller units using geologic and hydrologic barriers or institutional boundaries



Modified from Faunt, 2009

Basin Boundary Modification Process

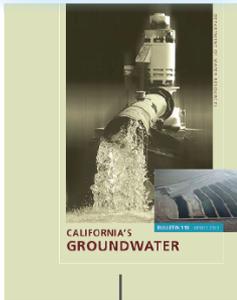
All basins begin
with existing Bulletin 118
boundaries.



Boundary
modification
desired by local
agency?

Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Boundary modification desired by local agency?

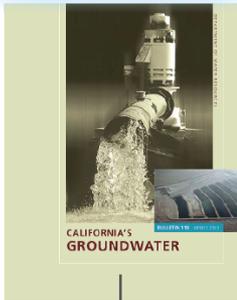
NO

GSA/GSP formed in existing basin(s)

Approved Boundaries Published in California's Groundwater **Bulletin 118** 2017 Update

Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Reason	Type of Modification
Scientific	Hydrogeologic
Jurisdictional	Internal
	Consolidation
	Subdivision

Local agencies may submit multiple modification types in a single request.

GSA/GSP formed in existing basin(s)

Approved Boundaries Published in California's Groundwater **Bulletin 118** 2017 Update

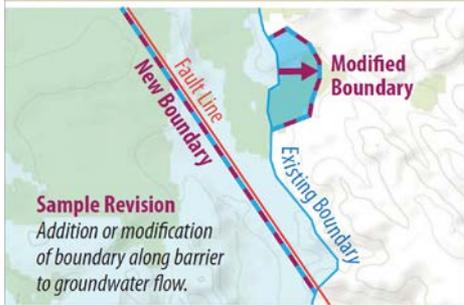
Types of Modification

- **Scientific** - Based on Geologic or Hydrologic Conditions that Define the Basin
- **Jurisdictional** - Promote the Adoption and Implementation of Effective Sustainable Management Plans and Enhance Local Management of Groundwater.

Types of Modification

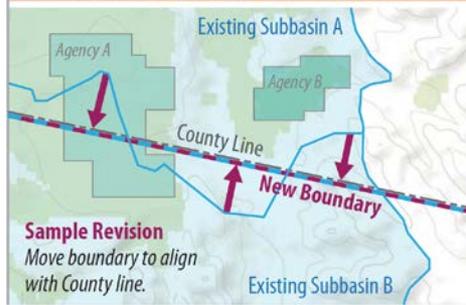
Scientific

Scientific

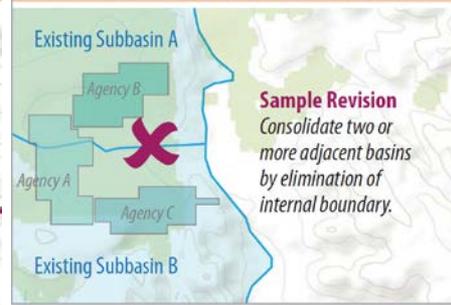


Jurisdictional

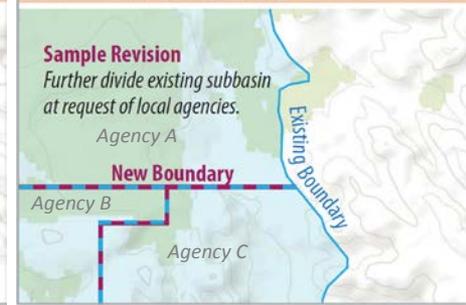
Internal (Jurisdictional)



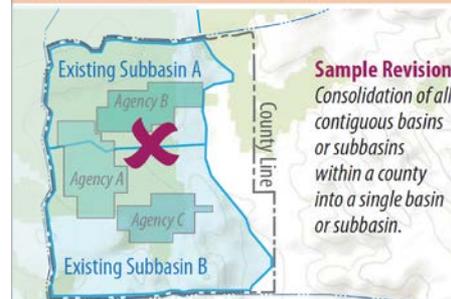
Consolidation (Jurisdictional)



Subdivision (Jurisdictional)

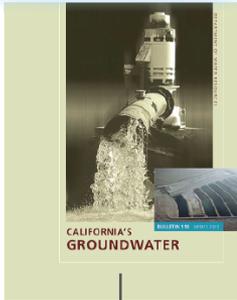


County Consolidation (Jurisdictional)



Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Boundary modification desired by local agency?

NO

YES

Stakeholder input opportunities shown in blue.

Reason	Type of Modification	Agency Information and Resolution	Notification & Consultation
Scientific	Hydrogeologic	✓	✓
Jurisdictional	Internal	✓	✓
	Consolidation	✓	✓
	Subdivision	✓	✓

Local agencies may submit multiple modification types in a single request.

If any required components are missing, request may not be approved and original boundaries will be used.

GSA/GSP formed in existing basin(s)

Approved Boundaries Published in California's Groundwater **Bulletin 118** 2017 Update

Required Components of Submittal

Information required is dependent upon type of modification.

(1) Local Info

Agency Information and Resolution

Notification & Consultation

Notification of Boundary Modifications

DWR

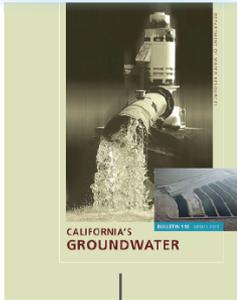
- Email Notification
- Post Requests on Website
- Searchable Table
- Interactive Map

Requesting Agency

- Board Resolution
- Notification and Consultation
 - ✓ Methods
 - ✓ Correspondence
 - ✓ Public Meetings
 - ✓ Public Comments

Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Stakeholder input opportunities shown in blue.

Required Components of Submittal
Information required is dependent upon type of modification.

(1) Local Info (2) Local Support

Agency Information and Resolution
Notification & Consultation
Affected Agencies and Systems
Majority of Affected Agencies/Systems
All Agencies in Existing Basin

Reason	Type of Modification	Agency Information and Resolution	Notification & Consultation	Affected Agencies and Systems	Majority of Affected Agencies/Systems	All Agencies in Existing Basin
Scientific	Hydrogeologic	✓	✓			
Jurisdictional	Internal	✓	✓	✓		
	Consolidation	✓	✓		✓	
	Subdivision	✓	✓			✓

Boundary modification desired by local agency?
YES
NO

Local agencies may submit multiple modification types in a single request.

If any required components are missing, request may not be approved and original boundaries will be used.

GSA/GSP formed in existing basin(s)

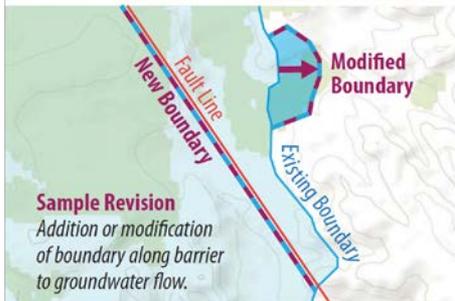
Approved Boundaries Published in California's Groundwater Bulletin 118 2017 Update

Local Support

Scientific

Jurisdictional

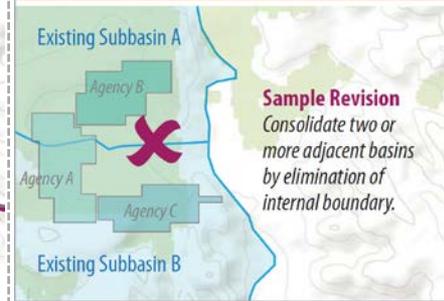
Scientific



Internal (Jurisdictional)



Consolidation (Jurisdictional)

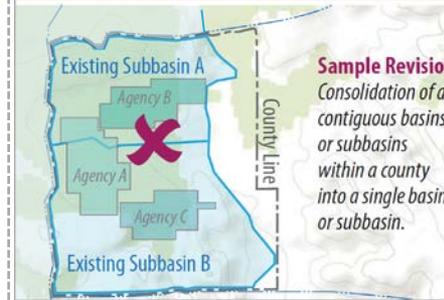


Subdivision (Jurisdictional)



Affected

County Consolidation (Jurisdictional)



Majority of Affected

All

In Existing Basin

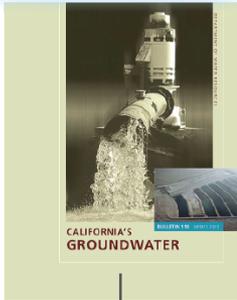
Local Agency & Public Water System Support

Notification and Public Meeting(s)

Protest Provision

Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Stakeholder input opportunities shown in blue.

Required Components of Submittal

Information required is dependent upon type of modification.

(1) Local Info	(2) Local Support	(3) Technical Information
Agency Information and Resolution	Notification & Consultation	Affected Agencies and Systems
Majority of Affected Agencies	All Agencies in Existing Basin	Desc. of Basin Boundaries (Map, GIS data)
Existing Water Management in Basin	Hydrogeologic Conceptual Model	Historic and Current Conditions
Technical Study		

Reason	Type of Modification	Agency Information and Resolution	Notification & Consultation	Affected Agencies and Systems	Majority of Affected Agencies	All Agencies in Existing Basin	Desc. of Basin Boundaries (Map, GIS data)	Existing Water Management in Basin	Hydrogeologic Conceptual Model	Historic and Current Conditions	Technical Study
Scientific	Hydrogeologic	✓	✓				✓		✓		✓
Jurisdictional	Internal	✓	✓	✓			✓	✓			
	Consolidation	✓	✓		✓		✓	✓	✓		
	Subdivision	✓	✓			✓	✓	✓	✓	✓	

Local agencies may submit multiple modification types in a single request.

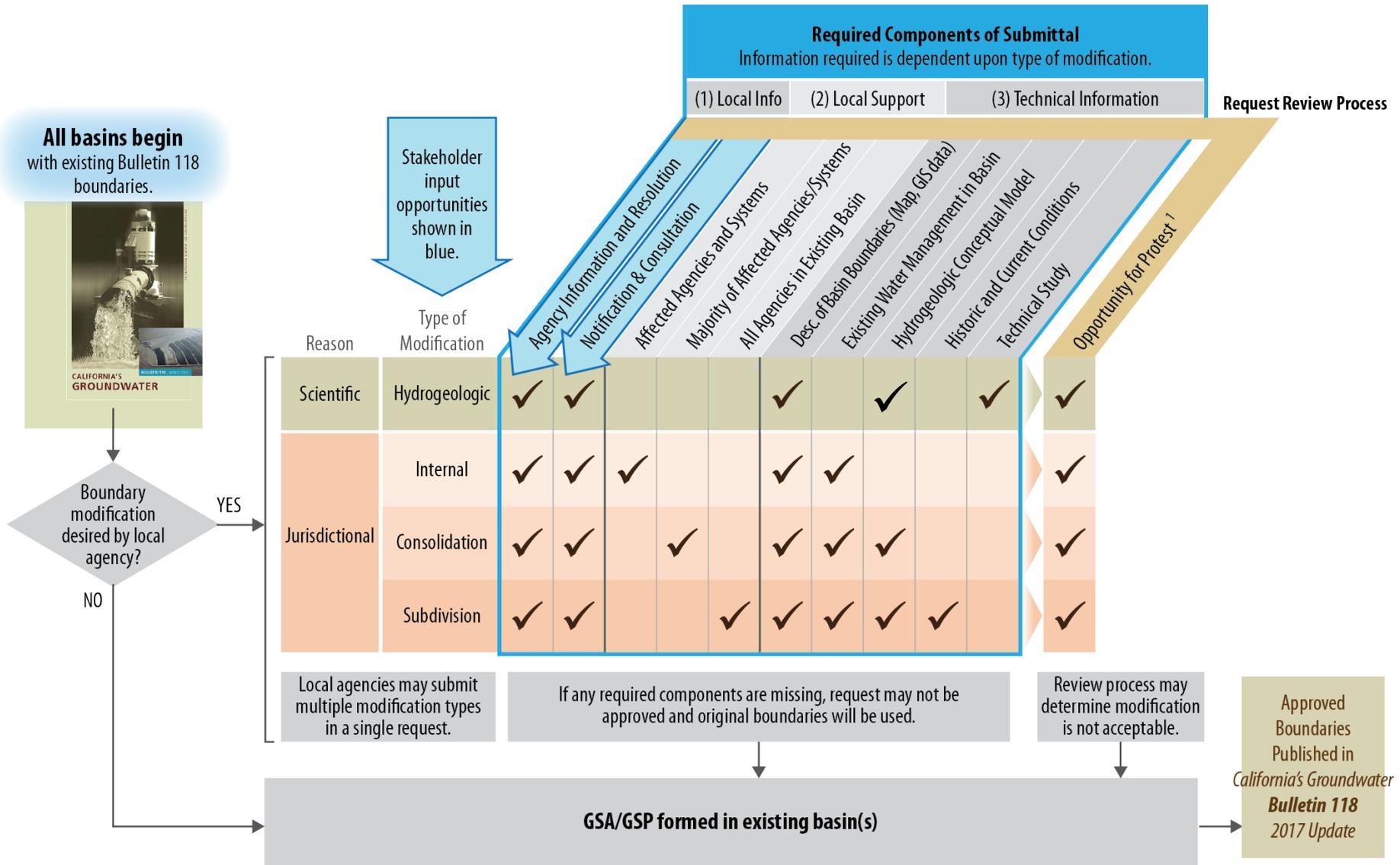
If any required components are missing, request may not be approved and original boundaries will be used.



GSA/GSP formed in existing basin(s)

Approved Boundaries Published in California's Groundwater Bulletin 118 2017 Update

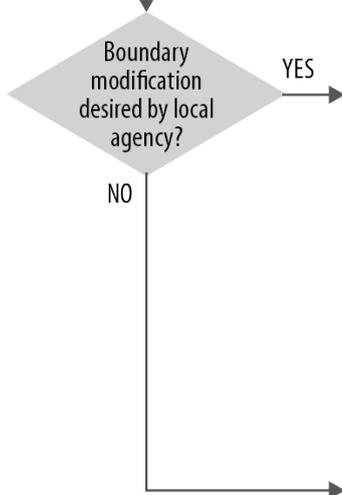
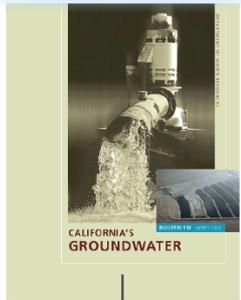
Basin Boundary Modification Process



1. A formal protest submittal requires the same technical Information as a boundary revision request, based on type of revision.

Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Stakeholder input opportunities shown in blue.

Required Components of Submittal
Information required is dependent upon type of modification.

(1) Local Info (2) Local Support (3) Technical Information

Request Review Process

Reason	Type of Modification	Agency Information and Resolution	Notification & Consultation	Affected Agencies and Systems	Majority of Affected Agencies	All Agencies in Existing Basin	Desc. of Basin Boundaries (Map, GIS data)	Existing Water Management in Basin	Hydrogeologic Conceptual Model	Historic and Current Conditions	Technical Study	Opportunity for Protest 1	DRAFT APPROVAL
Scientific	Hydrogeologic	✓	✓				✓		✓			✓	DRAFT APPROVAL
Jurisdictional	Internal	✓	✓	✓			✓	✓				✓	
	Consolidation	✓	✓		✓		✓	✓	✓			✓	
	Subdivision	✓	✓			✓	✓	✓	✓	✓		✓	

Local agencies may submit multiple modification types in a single request.

If any required components are missing, request may not be approved and original boundaries will be used.

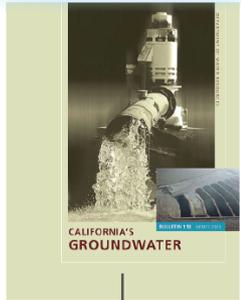
Review process may determine modification is not acceptable.

GSA/GSP formed in existing basin(s)

Approved Boundaries Published in California's Groundwater Bulletin 118 2017 Update

Basin Boundary Modification Process

All basins begin with existing Bulletin 118 boundaries.



Stakeholder input opportunities shown in blue.

Required Components of Submittal

Information required is dependent upon type of modification.

- (1) Local Info
- (2) Local Support
- (3) Technical Information

Request Review Process

Reason	Type of Modification	Agency Information and Resolution	Notification & Consultation	Affected Agencies and Systems	Majority of Affected Agencies	All Agencies in Existing Basin	Desc. of Basin Boundaries (Map, GIS data)	Existing Water Management in Basin	Hydrogeologic Conceptual Model	Historic and Current Conditions	Technical Study	Opportunity for Protest 1	DWR Review & Public Notification	CA Water Commission Review
Scientific	Hydrogeologic	✓	✓				✓		✓		✓	✓		
Jurisdictional	Internal	✓	✓	✓			✓	✓				✓		
	Consolidation	✓	✓		✓		✓	✓	✓			✓		
	Subdivision	✓	✓			✓	✓	✓	✓	✓		✓		

Local agencies may submit multiple modification types in a single request.

If any required components are missing, request may not be approved and original boundaries will be used.

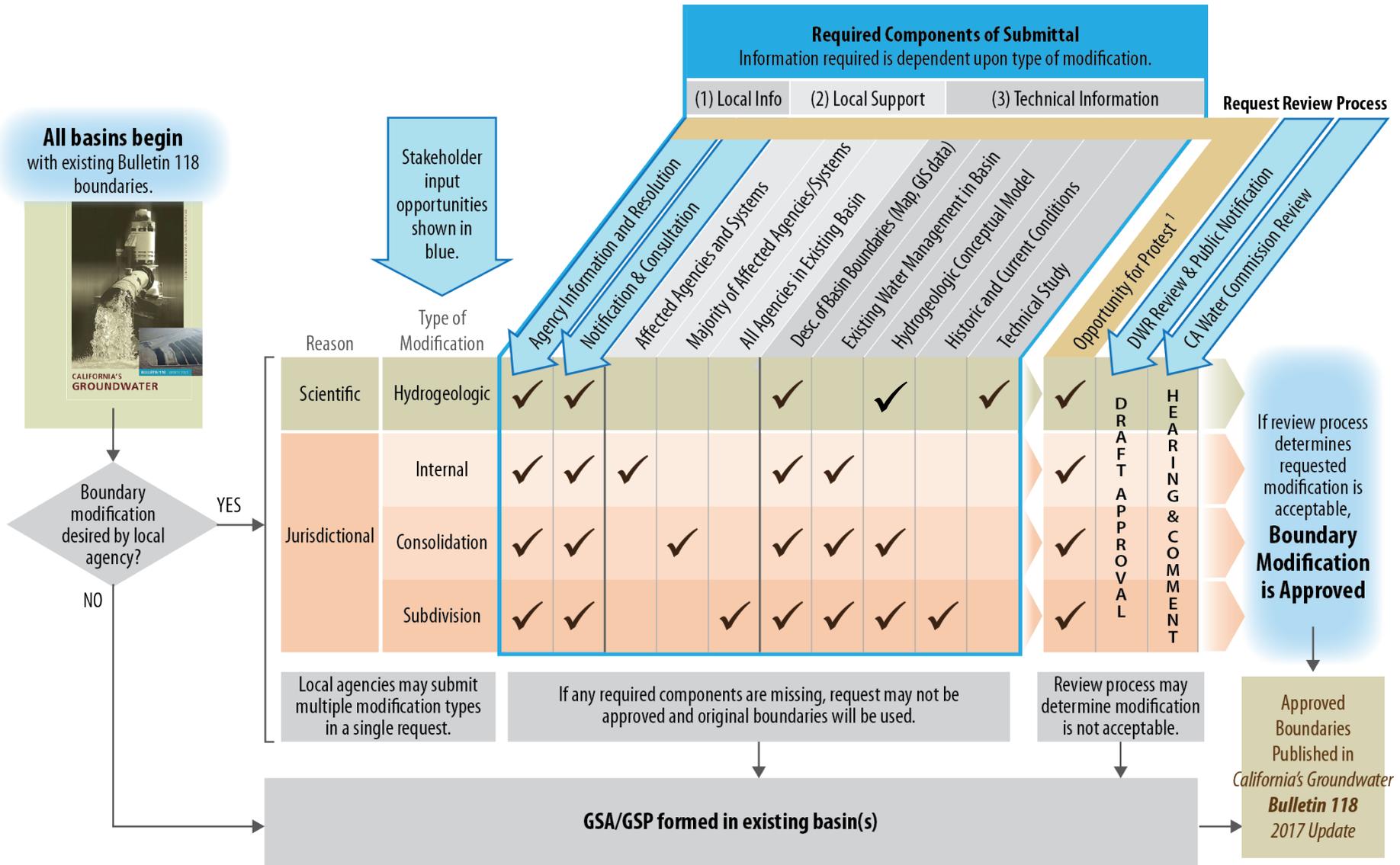
Review process may determine modification is not acceptable.

Approved Boundaries Published in California's Groundwater Bulletin 118 2017 Update

GSA/GSP formed in existing basin(s)



Basin Boundary Modification Process



Next Steps

- **July** – Post Draft Regulations on Website
 - Initiate Public Comment Period (July to September)
- **August** – Review Draft Regulation Language with CWC
- **Aug. – Sep.** – Public Meetings to Consider Public Comments
- **September** – Present Summarized Public Comments to CWC
- **October – November** - Present Proposed Emergency Regulations to CWC for adoption.
- **October – November** - Submit Adopted Emergency Regulations to Office of Administrative Law.
- **January 1, 2016** – DWR Starts Accepting Boundary Modification Requests (90 day period).
- **Aug. 2016*** – Draft Approval of Boundaries and Present to CWC

**Estimated – Subject to Change*

Thank You

- **DWR Sustainable Groundwater Management (SGM)**
<http://www.water.ca.gov/groundwater/sgm/index.cfm>
- **Subscribe to DWR SGM Email List**
<http://www.water.ca.gov/groundwater/sgm/subscribe.cfm>
- **DWR Basin Boundary Regulation Website**
http://www.water.ca.gov/groundwater/sgm/basin_boundaries.cfm
- **DWR Water Management Planning Tool**
<https://gis.water.ca.gov/app/boundaries/>
- **Questions or Comments for DWR**
sgmps@water.ca.gov