

# Notice and Agenda of a Workshop of the Yucaipa Sustainable Groundwater Management Agency

Wednesday, March 27, 2019 at 10:00 a.m.

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City of Yucaipa, 34272 Yucaipa Boulevard  
Yucaipa, California 92399  
(909) 797-2489 | [www.yucaipasgma.org](http://www.yucaipasgma.org)

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- I. **Call to Order**
- II. **Roll Call**
- III. **Introductions of Board Members and Public Participants**
- IV. **Public Comments** At this time, members of the public may address the representatives of the Yucaipa Groundwater Sustainability Agency on matters within its jurisdiction.
- V. **Review and Approval of Meeting Minutes**
  - A. Meeting Minutes - January 23, 2019 [[Page 4 of 49](#)]
  - B. Meeting Minutes - February 27, 2019 [[Page 9 of 49](#)]
- VI. **Discussion Items**
  - A. Discussion Regarding the Preparation of a Groundwater Sustainability Plan - Dudek / Tim Kellett [[Page 12 of 49](#)]
    - Status of data requests, compilation, review, and QA/QC
  - B. Discussion Regarding the Outreach Efforts for the Yucaipa Sustainable Groundwater Management Agency - Dudek / Tim Kellett
  - C. Discussion Regarding the Various Groundwater Models Available and the Specific Groundwater Model to be used for the Groundwater Sustainability Plan - Dudek / Tim Kellett
  - D. Discussion Regarding the Criteria Used for Selecting Projects to be Included in the Groundwater Sustainability Plan - Dudek / Tim Kellett [[Page 23 of 49](#)]
  - E. Discussion Regarding the Recharge Opportunities, Commitment, and Strategies by Water Retailers for Utilizing Imported Water for Groundwater Recharge - All [[Page 28 of 49](#)]
  - F. Status Report on the Sustainable Groundwater Management Act Grant and Financial Status - Tim Kellett [[Page 29 of 49](#)]
- VII. **Presentation**
  - A. Presentation by the United States Geological Survey Groundwater Flow Model
- VIII. **Topics for Future Meetings**
- IX. **Comments by Board of Directors**

**X. Announcements - Future Meetings**

- A. Wednesday, April 24, 2019 at 10:00 am - Board Meeting
- B. Wednesday, May 22, 2019 at 10:00 am - Workshop
- C. Wednesday, June 26, 2019 at 10:00 am - Workshop
- D. Wednesday, July 24, 2019 at 10:00 am - Board Meeting
- E. Wednesday, August 28, 2019 at 10:00 am - Workshop
- F. Wednesday, September 25, 2019 at 10:00 am - Workshop
- G. Wednesday, October 23, 2019 at 10:00 am - Board Meeting
- H. Wednesday, January 22, 2020 at 10:00 am - Board Meeting

**XI. Adjournment**

## Roll Call - Board of Directors

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company		David Armstrong		Adan Ortega
South Mountain Water Company		--		--
Western Heights Water Company		Mark Iverson		Tim Green
Yucaipa Valley Water District		Joseph Zoba		Jennifer Ares
<b>Municipals</b>				
City of Redlands		Cecilia Griego		--
City of Yucaipa		Ray Casey		Fermin Preciado
<b>Regionals</b>				
San Bernardino Valley MWD		Doug Headrick		Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis		Leonard Stephenson
<b>Stakeholders</b>				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		--

\* Quorum requires a total of five Purveyor, Municipal, Regional Members

# MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

**January 23, 2019 - 10:00 a.m.**

**City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California**

I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:00 a.m.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong	✓	George Jorritsma
South Mountain Water Company	✓	Bob Martin	_____	
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District	✓	Joseph Zoba	✓	Jennifer Ares
Municipals				
City of Calimesa	_____	Lori Askew	_____	Bonnie Johnson
City of Redlands	✓	Cecilia Griego	_____	
City of Yucaipa	_____	Ray Casey	✓	Fermin Preciado
Regionals				
San Bernardino Valley MWD	_____	Doug Headrick	✓	Bob Tincher
San Gorgonio Pass Water Agency	_____	Jeff Davis	✓	Leonard Stephenson
Stakeholders				
County of Riverside	_____	Steve Horn	_____	Jeff Johnson
County of San Bernardino	_____	Bob Page	_____	

A quorum of the Board of Directors was present at the meeting.

Members of the public and other attendees at the meeting included:

- Susan Allen, Ortega Strategies
- David Duron
- Ashley Gibson, Yucaipa Valley Water District
- Derek Hoffman, Attorney for South Mesa Mutual Water Company
- Tim Kellett, San Bernardino Valley Municipal Water District
- Mike Podegraz, Charles Abbott Associates (City of Yucaipa)
- Kevin Watson, City of Redlands
- Bob Zappia, Western Heights Water Company

III. Introductions of Board Members and Public Participants - Board members and other meeting participants provided self-introductions.

IV. Public Comments - There were no public comments.

V. Review and Approval of Meeting Minutes

A. Approval of Meeting Minutes of November 14, 2018

Bob Tincher moved to approve the meeting minutes.

Joseph Zoba seconded the motion.

Motion to approve the November 14, 2018 minutes of the Yucaipa Sustainable Groundwater Management Agency.	Yes	No	Abstain	Absent
South Mesa Water Company	✓			
South Mountain Water Company	✓			
Western Heights Water Company	✓			
Yucaipa Valley Water District	✓			
City of Calimesa				✓
City of Redlands				✓
City of Yucaipa	✓			
San Bernardino Valley Municipal Water District	✓			
San Gorgonio Pass Water Agency			✓	

The Board of Directors approved the motion.

VI. Discussion Items

A. Election of Officers for the Yucaipa Sustainable Groundwater Management Agency

Joseph Zoba moved to retain the current officers of the Yucaipa Sustainable Groundwater Management Agency:

- Mark Iverson - President
- David Armstrong - Vice-President
- Joseph Zoba - Secretary
- Doug Headrick - Treasurer.

David Armstrong seconded the motion.

Motion to retain the current officers of the Yucaipa Sustainable Groundwater Management Agency.	Yes	No	Abstain	Absent
South Mesa Water Company	✓			
South Mountain Water Company	✓			
Western Heights Water Company	✓			
Yucaipa Valley Water District	✓			

City of Calimesa				✓
City of Redlands				✓
City of Yucaipa	✓			
San Bernardino Valley Municipal Water District	✓			
San Gorgonio Pass Water Agency	✓			

The Board of Directors approved the motion.

B. Discussion Regarding Correspondence from the City of Calimesa - Notice of Withdrawal from the Yucaipa - GSA

On November 19, 2018, the City of Calimesa publicly confirmed the Notice of Withdrawal from the Groundwater Sustainability Agency for the Yucaipa Sub-Basin No. 8-02.07 and the city council authorized the Mayor to execute a letter of confirmation.

Following a discussion by the Board of Directors, Fermin Preciado moved to consider November 19, 2018 as the effective date of the notice when the City of Calimesa withdrew from the Yucaipa Groundwater Sustainability Agency pursuant to the original Memorandum of Agreement. Bob Tincher seconded the motion.

Motion to consider November 19, 2018 as the effective date of the notice when the City of Calimesa withdrew from the Yucaipa Groundwater Sustainability Agency pursuant to the original Memorandum of Agreement.	Yes	No	Abstain	Absent
South Mesa Water Company	✓			
South Mountain Water Company	✓			
Western Heights Water Company	✓			
Yucaipa Valley Water District	✓			
City of Calimesa				✓
City of Redlands				✓
City of Yucaipa	✓			
San Bernardino Valley Municipal Water District	✓			
San Gorgonio Pass Water Agency	✓			

Note: Representatives from the City of Redlands arrived at the meeting.

C. Review of the Todd Groundwater Infiltration Report

Bob Tincher reported that the groundwater model by the USGS was delivered to the San Bernardino Valley Municipal Water District. Bob Tincher also reported that Todd Groundwater re-evaluated the infiltration rates due to the fact that the test was conducted with drinking water instead of storm water or imported water. Following discussions with representatives from Orange County Water District,

Todd Groundwater reduced the preliminary infiltration rates by 50% as shown in the updated Table 4 in the final report.

- D. Overview and Discussion Regarding the Monthly Progress Report for the Preparation of the Groundwater Sustainability Plan by Dudek

Tim Kellett reported on the status of the data gathering efforts by Dudek.

- E. Status Report on the Sustainable Groundwater Management Act Grant Supporting Work by the Yucaipa Sustainable Groundwater Management Agency

Tim Kellett reported that representatives from Dudek are coordinating with the Department of Water Resources. On January 9, 2019, representatives from Dudek, Department of Water Resources, and San Bernardino Valley Municipal Water District discussed the reporting and payment reimbursement process and other issues related to grant administration.

The Yucaipa SGMA board members reached a consensus that they would prefer to receive quarterly invoices from the San Bernardino Valley Municipal Water District.

- F. Status Report on the Preparation of a Groundwater Sustainability Plan

Tim Kellett reported that information related to this agenda item was included in the previous agenda discussion.

- G. Status Report and Discussion Regarding the Development of the USGS / Geoscience Groundwater Model

This item was rescheduled to the February 27, 2019 meeting.

## VII. Presentation

- A. Presentation by the United States Geological Survey Groundwater Flow Model

This item was rescheduled to the February 27, 2019 meeting.

## VIII. Topics for Future Meetings - Mark Iverson called attention to the future topics listed on the meeting agenda.

## IX. Comments by the Board of Directors - There were no comments from the board members.

## X. Announcements - The next meeting of the Yucaipa Sustainable Groundwater Management Agency will be a workshop on Wednesday, February 27, 2019 at 10:00 a.m.

XI. Adjournment - The meeting was adjourned at 10:40 a.m.



# MINUTES OF THE YUCAIPA SUSTAINABLE GROUNDWATER MANAGEMENT AGENCY

**February 27, 2019 - 10:00 a.m.**

**City of Yucaipa, 34272 Yucaipa Boulevard, Yucaipa, California**

I. Call to Order - Chairman Mark Iverson called the meeting to order at 10:00 a.m.

II. Roll Call - The following representatives, as assigned by each Party, attended the meeting:

Purveyors	Present	Primary Representative	Present	Alternative Representative
South Mesa Water Company	✓	David Armstrong		Adan Ortega
South Mountain Water Company		Bob Martin		
Western Heights Water Company	✓	Mark Iverson	✓	Tim Green
Yucaipa Valley Water District	✓	Joseph Zoba	✓	Jennifer Ares
<b>Municipals</b>				
<del>City of Calimesa</del>		<del>Lori Askew</del>		<del>Bonnie Johnson</del>
City of Redlands		Cecilia Griego		
City of Yucaipa		Ray Casey	✓	Fermin Preciado
<b>Regionals</b>				
San Bernardino Valley MWD	✓	Doug Headrick	✓	Bob Tincher
San Gorgonio Pass Water Agency		Jeff Davis	✓	Leonard Stephenson
<b>Stakeholders</b>				
County of Riverside		Steve Horn		Jeff Johnson
County of San Bernardino		Bob Page		

A quorum of the Board of Directors was present at the meeting.

Members of the public and other attendees at the meeting included:

- Geoff Cromwell, USGS
- David Duron
- Lonni Granlund, Yucaipa Valley Water District
- Derek Hoffman, Attorney representing South Mesa Mutual Water Company
- George Jorritsma, South Mesa Mutual Water Company
- Tim Kellett, San Bernardino Valley Municipal Water District
- Greg Mendez, USGS
- Wendy Moneypenny, South Mesa Mutual Water Company
- Mike Podegraz, Charles Abbott Associates (City of Yucaipa)
- Linda Shelton
- Steve Stuart, Dudek
- Johnson Yeh, Geoscience

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III. Introductions of Board Members and Public Participants - Board members and other meeting participants provided self-introductions

IV. Public Comments - There were no public comments.

V. Review and Approval of Meeting Minutes

A. Approval of Meeting Minutes of January 23, 2019

This item was continued to the March 27, 2019 meeting.

VI. Discussion Items

A. Overview and Discussion Regarding the Monthly Progress Report for the Preparation of the Groundwater Sustainability Plan by Dudek

Tim Kellett discussed the current status of the data submittals and the quarterly report to be prepared for the Department of Water Resources.

B. Status Report on the Sustainable Groundwater Management Act Grant Supporting Work by the Yucaipa Sustainable Groundwater Management Agency

Tim Kellett provided an update on the grant administration for Yucaipa SGMA.

C. Status Report on the Preparation of a Groundwater Sustainability Plan

Steve Stuart and Tim Kellett discussed the outreach plan needed to provide information to the public about the Yucaipa groundwater sustainability plan.

D. Status Report and Discussion Regarding the Development of the USGS / Geoscience Groundwater Model

There was a brief discussion by Steve Stuart about questions regarding the specific groundwater model to be used by Dudek for development of the groundwater sustainability plan. Information and decisions will be discussed at the next meeting.

VII. Presentation

A. Presentation by the United States Geological Survey Groundwater Flow Model

Johnson Yeh provided a presentation about the modeling work completed by Geoscience for the Yucaipa Basin and areas downstream to the Prado Dam. The

presentation slides from this item will be attached to the meeting material and made available online for future reference.

Geoff Cromwell provided an overview of the groundwater model prepared by the United States Geological Survey. The presentation slides from this item will be attached to the meeting material and made available online for future reference.

- VIII. Topics for Future Meetings - Mark Iverson called attention to the future topics listed on the meeting agenda.
- IX. Comments by the Board of Directors - There were no comments from the board members.
- X. Announcements - The next meeting of the Yucaipa Sustainable Groundwater Management Agency will be a workshop on Wednesday, March 27, 2019 at 10:00 a.m.
- XI. Adjournment - The meeting was adjourned at 11:10 a.m.



California Department of Water Resources  
Sustainable Groundwater Management Program

**December 2016**

A large, rusty metal wellhead with a pipe extending from it, discharging water into a grassy field. The wellhead is blue and yellow, with a large pipe attached. Water is flowing out of the pipe into a grassy field. The background shows a green field and a blue sky.

# Guidance Document for the Sustainable Management of Groundwater Preparation Checklist for GSP Submittal

# Guidance Document for the Sustainable Management of Groundwater Preparation Checklist for GSP Submittal December 2016

The objective of this Guidance Document is to provide Groundwater Sustainability Agencies (GSAs) and other interested stakeholders a checklist of Groundwater Sustainability Plan (GSP) content requirements for the purpose of verifying a GSP is complete and is ready for submission to DWR. Please note that if multiple GSAs develop multiple GSPs for a basin, the coordinated submission of those GSPs shall not occur until the entire basin is covered by GSPs.

The Preparation Checklist for GSP Submittal is only intended to provide a guide to GSAs and other stakeholders. This guidance is optional, since the content of this Guidance Document does not create any new requirements or obligations for the GSA or other stakeholders.

Guidance documents are not a substitute for the GSP Emergency Regulations (GSP Regulations) or the Sustainable Groundwater Management Act (SGMA). Those GSAs submitting a GSP are strongly encouraged to read the GSP Regulations and SGMA. In addition, using this Guidance Document to develop a GSP using does not equate to an approval determination by DWR.

## **Context with GSP Regulations**

The Preparation Checklist for GSP Submittal can be used by GSAs in conjunction with the GSP Annotated Outline Guidance Document as a method to develop a GSP consistent with the requirements of the GSP Regulations and SGMA. The detailed requirements of a GSP may be found in the GSP Regulations, primarily in Article 5 – Plan Contents, and in SGMA, primarily in Chapter 6 beginning with California Water Code (CWC) Section 10727. The checklist includes references to applicable GSP Regulations sections and CWC sections, as well as a brief description of the required GSP information. The checklist also contains a column for GSAs to record the page number, or section of the GSP, where the information for that particular requirement is found. The preparation checklist may also be included in the GSP.

**Table 1** contains the **Preparation Checklist for GSP Submittal**.



California Department of Water Resources  
Sustainable Groundwater Management Program  
1416 Ninth Street  
P.O. Box 942836  
Sacramento, CA 94236-0001  
[www.water.ca.gov/groundwater](http://www.water.ca.gov/groundwater)

**Table 1. Preparation Checklist for GSP Submittal**

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 3. Technical and Reporting Standards</b>				
352.2		Monitoring Protocols	<ul style="list-style-type: none"> <li>• Monitoring protocols adopted by the GSA for data collection and management</li> <li>• Monitoring protocols that are designed to detect changes in groundwater levels, groundwater quality, inelastic surface subsidence for basins for which subsidence has been identified as a potential problem, and flow and quality of surface water that directly affect groundwater levels or quality or are caused by groundwater extraction in the basin</li> </ul>	
<b>Article 5. Plan Contents, Subarticle 1. Administrative Information</b>				
354.4		General Information	<ul style="list-style-type: none"> <li>• Executive Summary</li> <li>• List of references and technical studies</li> </ul>	
354.6		Agency Information	<ul style="list-style-type: none"> <li>• GSA mailing address</li> <li>• Organization and management structure</li> <li>• Contact information of Plan Manager</li> <li>• Legal authority of GSA</li> <li>• Estimate of implementation costs</li> </ul>	
354.8(a)	10727.2(a)(4)	Map(s)	<ul style="list-style-type: none"> <li>• Area covered by GSP</li> <li>• Adjudicated areas, other agencies within the basin, and areas covered by an Alternative</li> <li>• Jurisdictional boundaries of federal or State land</li> <li>• Existing land use designations</li> <li>• Density of wells per square mile</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 5. Plan Contents, Subarticle 1. Administrative Information (Continued)</b>				
354.8(b)		Description of the Plan Area	<ul style="list-style-type: none"> <li>• Summary of jurisdictional areas and other features</li> </ul>	
354.8(c) 354.8(d) 354.8(e)	10727.2(g)	Water Resource Monitoring and Management Programs	<ul style="list-style-type: none"> <li>• Description of water resources monitoring and management programs</li> <li>• Description of how the monitoring networks of those plans will be incorporated into the GSP</li> <li>• Description of how those plans may limit operational flexibility in the basin</li> <li>• Description of conjunctive use programs</li> </ul>	
354.8(f)	10727.2(g)	Land Use Elements or Topic Categories of Applicable General Plans	<ul style="list-style-type: none"> <li>• Summary of general plans and other land use plans</li> <li>• Description of how implementation of the GSP may change water demands or affect achievement of sustainability and how the GSP addresses those effects</li> <li>• Description of how implementation of the GSP may affect the water supply assumptions of relevant land use plans</li> <li>• Summary of the process for permitting new or replacement wells in the basin</li> <li>• Information regarding the implementation of land use plans outside the basin that could affect the ability of the Agency to achieve sustainable groundwater management</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 5. Plan Contents, Subarticle 1. Administrative Information (Continued)</b>				
354.8(g)	10727.4	Additional GSP Contents	<b>Description of Actions related to:</b> <ul style="list-style-type: none"> <li>• Control of saline water intrusion</li> <li>• Wellhead protection</li> <li>• Migration of contaminated groundwater</li> <li>• Well abandonment and well destruction program</li> <li>• Replenishment of groundwater extractions</li> <li>• Conjunctive use and underground storage</li> <li>• Well construction policies</li> <li>• Addressing groundwater contamination cleanup, recharge, diversions to storage, conservation, water recycling, conveyance, and extraction projects</li> <li>• Efficient water management practices</li> <li>• Relationships with State and federal regulatory agencies</li> <li>• Review of land use plans and efforts to coordinate with land use planning agencies to assess activities that potentially create risks to groundwater quality or quantity</li> <li>• Impacts on groundwater dependent ecosystems</li> </ul>	
354.10		Notice and Communication	<ul style="list-style-type: none"> <li>• Description of beneficial uses and users</li> <li>• List of public meetings</li> <li>• GSP comments and responses</li> <li>• Decision-making process</li> <li>• Public engagement</li> <li>• Encouraging active involvement</li> <li>• Informing the public on GSP implementation progress</li> </ul>	



GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 5. Plan Contents, Subarticle 2. Basin Setting</b>				
354.14		Hydrogeologic Conceptual Model	<ul style="list-style-type: none"> <li>• Description of the Hydrogeologic Conceptual Model</li> <li>• Two scaled cross-sections</li> <li>• Map(s) of physical characteristics: topographic information, surficial geology, soil characteristics, surface water bodies, source and point of delivery for imported water supplies</li> </ul>	
354.14(c)(4)	10727.2(a)(5)	Map of Recharge Areas	<ul style="list-style-type: none"> <li>• Map delineating existing recharge areas that substantially contribute to the replenishment of the basin, potential recharge areas, and discharge areas</li> </ul>	
	10727.2(d)(4)	Recharge Areas	<ul style="list-style-type: none"> <li>• Description of how recharge areas identified in the plan substantially contribute to the replenishment of the basin</li> </ul>	
354.16	10727.2(a)(1) 10727.2(a)(2)	Current and Historical Groundwater Conditions	<ul style="list-style-type: none"> <li>• Groundwater elevation data</li> <li>• Estimate of groundwater storage</li> <li>• Seawater intrusion conditions</li> <li>• Groundwater quality issues</li> <li>• Land subsidence conditions</li> <li>• Identification of interconnected surface water systems</li> <li>• Identification of groundwater-dependent ecosystems</li> </ul>	
354.18	10727.2(a)(3)	Water Budget Information	<ul style="list-style-type: none"> <li>• Description of inflows, outflows, and change in storage</li> <li>• Quantification of overdraft</li> <li>• Estimate of sustainable yield</li> <li>• Quantification of current, historical, and projected water budgets</li> </ul>	
	10727.2(d)(5)	Surface Water Supply	<ul style="list-style-type: none"> <li>• Description of surface water supply used or available for use for groundwater recharge or in-lieu use</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 5. Plan Contents, Subarticle 2. Basin Setting (Continued)</b>				
354.20		Management Areas	<ul style="list-style-type: none"> <li>• Reason for creation of each management area</li> <li>• Minimum thresholds and measurable objectives for each management area</li> <li>• Level of monitoring and analysis</li> <li>• Explanation of how management of management areas will not cause undesirable results outside the management area</li> <li>• Description of management areas</li> </ul>	
<b>Article 5. Plan Contents, Subarticle 3. Sustainable Management Criteria</b>				
354.24		Sustainability Goal	<ul style="list-style-type: none"> <li>• Description of the sustainability goal</li> </ul>	
354.26		Undesirable Results	<ul style="list-style-type: none"> <li>• Description of undesirable results</li> <li>• Cause of groundwater conditions that would lead to undesirable results</li> <li>• Criteria used to define undesirable results for each sustainability indicator</li> <li>• Potential effects of undesirable results on beneficial uses and users of groundwater</li> </ul>	
354.28	10727.2(d)(1) 10727.2(d)(2)	Minimum Thresholds	<ul style="list-style-type: none"> <li>• Description of each minimum threshold and how they were established for each sustainability indicator</li> <li>• Relationship for each sustainability indicator</li> <li>• Description of how selection of the minimum threshold may affect beneficial uses and users of groundwater</li> <li>• Standards related to sustainability indicators</li> <li>• How each minimum threshold will be quantitatively measured</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 5. Plan Contents, Subarticle 3. Sustainable Management Criteria (Continued)</b>				
354.30	10727.2(b)(1) 10727.2(b)(2) 10727.2(d)(1) 10727.2(d)(2)	Measurable Objectives	<ul style="list-style-type: none"> <li>• Description of establishment of the measureable objectives for each sustainability indicator</li> <li>• Description of how a reasonable margin of safety was established for each measureable objective</li> <li>• Description of a reasonable path to achieve and maintain the sustainability goal, including a description of interim milestones</li> </ul>	
<b>Article 5. Plan Contents, Subarticle 4. Monitoring Networks</b>				
354.34	10727.2(d)(1) 10727.2(d)(2) 10727.2(e) 10727.2(f)	Monitoring Networks	<ul style="list-style-type: none"> <li>• Description of monitoring network</li> <li>• Description of monitoring network objectives</li> <li>• Description of how the monitoring network is designed to: demonstrate groundwater occurrence, flow directions, and hydraulic gradients between principal aquifers and surface water features; estimate the change in annual groundwater in storage; monitor seawater intrusion; determine groundwater quality trends; identify the rate and extent of land subsidence; and calculate depletions of surface water caused by groundwater extractions</li> <li>• Description of how the monitoring network provides adequate coverage of Sustainability Indicators</li> <li>• Density of monitoring sites and frequency of measurements required to demonstrate short-term, seasonal, and long-term trends</li> <li>• Scientific rational (or reason) for site selection</li> <li>• Consistency with data and reporting standards</li> <li>• Corresponding sustainability indicator, minimum threshold, measureable objective, and interim milestone</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
			<p><b>(Monitoring Networks Continued)</b></p> <ul style="list-style-type: none"> <li>• Location and type of each monitoring site within the basin displayed on a map, and reported in tabular format, including information regarding the monitoring site type, frequency of measurement, and the purposes for which the monitoring site is being used</li> <li>• Description of technical standards, data collection methods, and other procedures or protocols to ensure comparable data and methodologies</li> </ul>	
354.36		Representative Monitoring	<ul style="list-style-type: none"> <li>• Description of representative sites</li> <li>• Demonstration of adequacy of using groundwater elevations as proxy for other sustainability indicators</li> <li>• Adequate evidence demonstrating site reflects general conditions in the area</li> </ul>	
354.38		Assessment and Improvement of Monitoring Network	<ul style="list-style-type: none"> <li>• Review and evaluation of the monitoring network</li> <li>• Identification and description of data gaps</li> <li>• Description of steps to fill data gaps</li> <li>• Description of monitoring frequency and density of sites</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 5. Plan Contents, Subarticle 5. Projects and Management Actions</b>				
354.44		Projects and Management Actions	<ul style="list-style-type: none"> <li>• Description of projects and management actions that will help achieve the basin’s sustainability goal</li> <li>• Measureable objective that is expected to benefit from each project and management action</li> <li>• Circumstances for implementation</li> <li>• Public noticing</li> <li>• Permitting and regulatory process</li> <li>• Time-table for initiation and completion, and the accrual of expected benefits</li> <li>• Expected benefits and how they will be evaluated</li> <li>• How the project or management action will be accomplished. If the projects or management actions rely on water from outside the jurisdiction of the Agency, an explanation of the source and reliability of that water shall be included.</li> <li>• Legal authority required</li> <li>• Estimated costs and plans to meet those costs</li> <li>• Management of groundwater extractions and recharge</li> </ul>	
354.44(b)(2)	10727.2(d)(3)		<ul style="list-style-type: none"> <li>• Overdraft mitigation projects and management actions</li> </ul>	

GSP Regulations Section	Water Code Section	Requirement	Description	Section(s) or Page Number(s) in the GSP
<b>Article 8. Interagency Agreements</b>				
357.4	10727.6	Coordination Agreements - Shall be submitted to the Department together with the GSPs for the basin and, if approved, shall become part of the GSP for each participating Agency.	<p><b>Coordination Agreements shall describe the following:</b></p> <ul style="list-style-type: none"> <li>• A point of contact</li> <li>• Responsibilities of each Agency</li> <li>• Procedures for the timely exchange of information between Agencies</li> <li>• Procedures for resolving conflicts between Agencies</li> <li>• How the Agencies have used the same data and methodologies to coordinate GSPs</li> <li>• How the GSPs implemented together satisfy the requirements of SGMA</li> <li>• Process for submitting all Plans, Plan amendments, supporting information, all monitoring data and other pertinent information, along with annual reports and periodic evaluations</li> <li>• A coordinated data management system for the basin</li> <li>• Coordination agreements shall identify adjudicated areas within the basin, and any local agencies that have adopted an Alternative that has been accepted by the Department</li> </ul>	



California Department of Water Resources  
Sustainable Groundwater Management Program

December 2016



Best Management Practice

FRAMEWORK

BMP

## Introduction to Best Management Practices

Chapter 7 of the Sustainable Groundwater Management Act (SGMA), in Water Code Section 10729(d), states that, “By January 1, 2017, the department shall publish on its internet Web site best management practices for the sustainable management of groundwater.” Prior to the completion of a best management practices (BMPs) document, the Department of Water Resources (DWR) was required to adopt regulations for evaluating groundwater sustainability plans (GSPs), the implementation of GSPs, and coordination agreements by June 1, 2016 (GSP Regulations), and Alternatives.

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**“Best management practice” refers to a practice, or combination of practices, that are designed to achieve sustainable groundwater management and have been determined to be technologically and economically effective, practicable, and based on best available science.**

**–GSP Regulations §351(h)**

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The GSP Regulations adopted in May 2016 are part of the California Code of Regulations in Title 23, Division 2, Chapter 1.5, Subchapter 2. The GSP Regulations address BMPs in Section 352.2 (Monitoring Protocols) and Section 352.4 (Data and Reporting Standards). Other than BMPs addressing monitoring protocols and monitoring sites, SGMA and the GSP Regulations provide no direction or limitation with respect to what type of BMPs or additional guidance should be developed to assist groundwater sustainability agencies (GSAs) with making sustainable groundwater management decisions.

## Best Management Practices Development Process

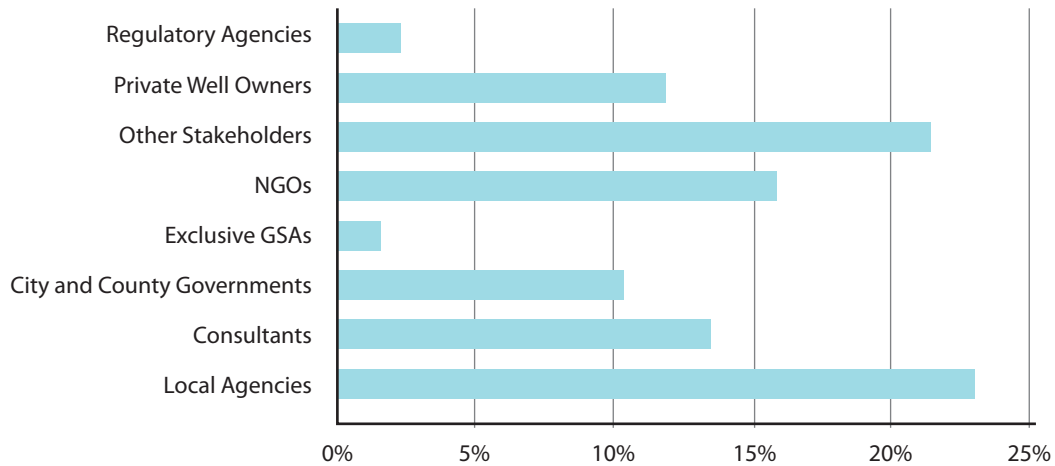
### ***BMP Webpage***

DWR established a BMP Webpage at <http://water.ca.gov/groundwater/sgm/bmps.cfm> where BMPs are posted and where Draft BMPs were accessible during the public comment period.

### ***Topic Selection***

DWR prepared a BMP survey (Survey) and invited the public and groundwater stakeholders to participate. The Survey was posted on the BMP Webpage. DWR compiled and reviewed the Survey results and considered this information in developing the list of BMPs and Guidance Documents for completion by January 1, 2017. **Figure 1** provides a record of relative survey participation.



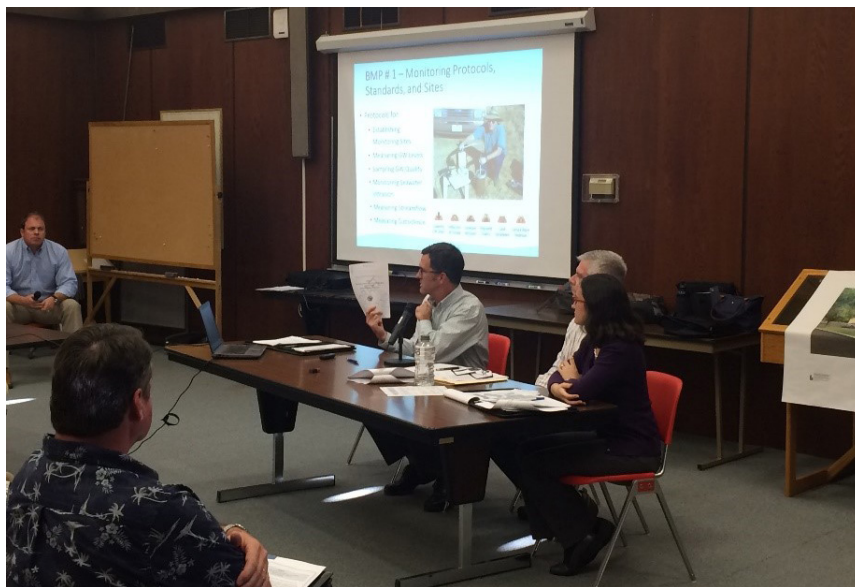
**Figure 1. BMP Survey Participants**

### **Public Outreach**

During the 30-day public comment period from October 28 to November 28, 2016, DWR conducted three (3) public meetings and participated in a California Water Commission meeting to present the draft BMPs and solicit feedback from the public and groundwater stakeholders.

The location and date of these meetings are listed below:

- Willows – November 14, 2016
- Sacramento and via webcast, California Water Commission – November 15, 2016
- Clovis – November 16, 2016
- Santa Ana – November 17, 2016



**Tim Godwin presenting Monitoring Protocols, Standards, and Sites in Willows, CA, November 14, 2016.**

DWR elected to publish two categories of information that can assist GSAs and stakeholders with SGMA implementation and preparation of GSPs – **BMPs** and **Guidance Documents**.

## Best Management Practices (BMPs)

BMPs are intended to provide clarification, guidance, and examples to help GSAs develop the essential elements of a GSP. BMPs rely on technical information from other groundwater management efforts, existing standards, or other guidance or reference reports. The BMP categories include the following:

- **BMP 1:** Monitoring Protocols, Standards, and Sites
- **BMP 2:** Monitoring Networks and Identification of Data Gaps
- **BMP 3:** Hydrogeologic Conceptual Model
- **BMP 4:** Water Budget
- **BMP 5:** Modeling

## Guidance Documents

Guidance Documents are prepared for topic areas unique to SGMA, for either topics where no established practices in the water management industry exist or to provide suggestions with supporting graphics to aid GSAs in developing certain GSP components. The Guidance Documents include the following:

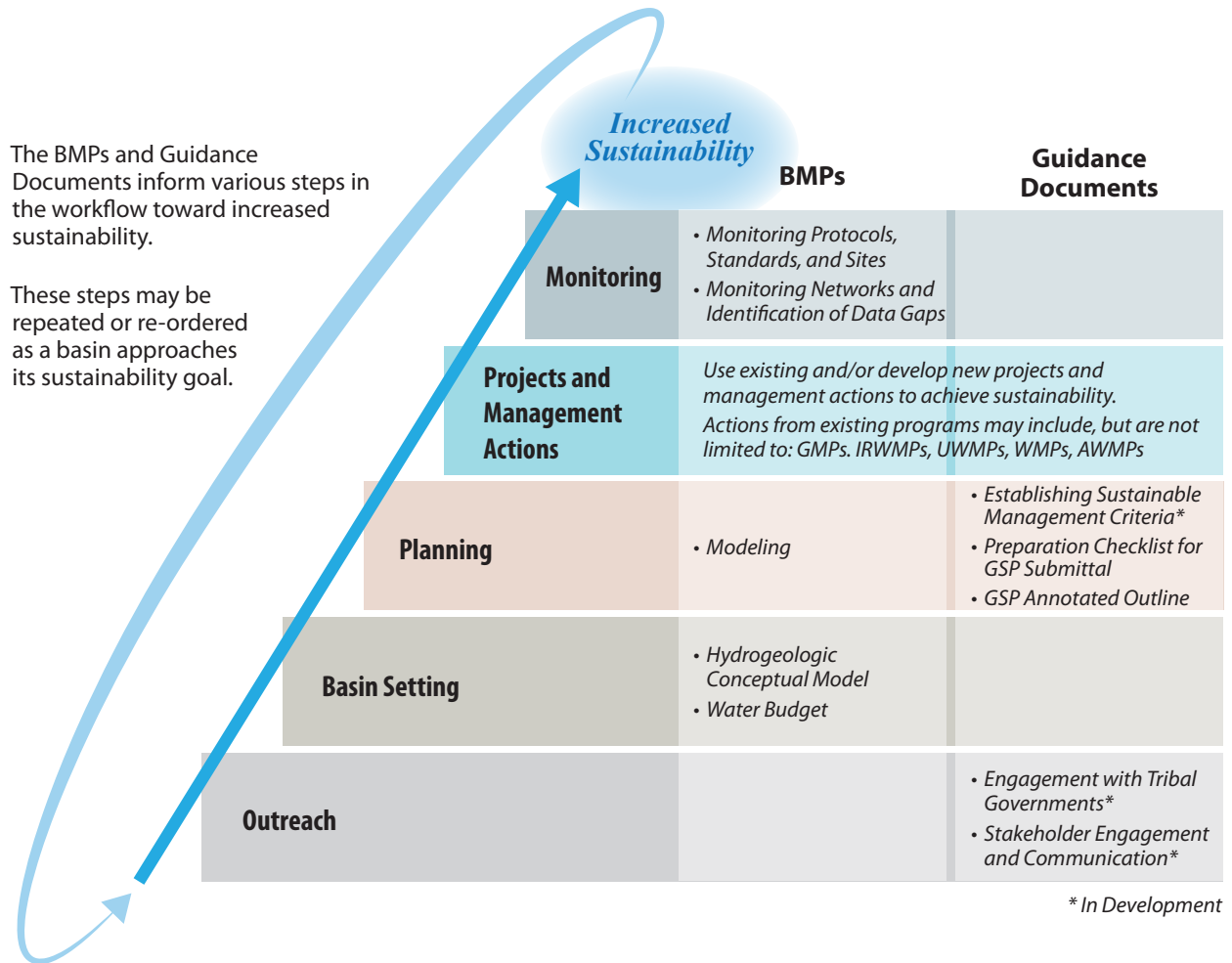
- Preparation Checklist for GSP Submittal
- GSP Annotated Outline
- Establishing Sustainable Management Criteria (In Development)
- Engagement with Tribal Governments (In Development)
- Stakeholder Engagement and Communication (In Development)

## How to Utilize BMPs and Guidance Documents

BMPs and Guidance Documents are organized to follow a logical progression of SGMA compliance activities. **Figure 2** illustrates the relationship between BMPs and Guidance Documents in the general progression of activities needed to manage the groundwater basin sustainability. **Figure 2** is provided for illustrative purposes only and DWR acknowledges that the need for and level of effort required to complete each step will vary widely among basins.



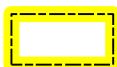
The BMPs and Guidance Documents are only intended to provide technical or general guidance to GSAs and other stakeholders. GSAs and other stakeholders have the option of using this material, but the content provided in these documents does not create any new requirements or obligations for the GSA or other stakeholders.

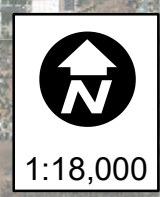
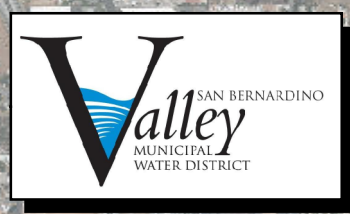
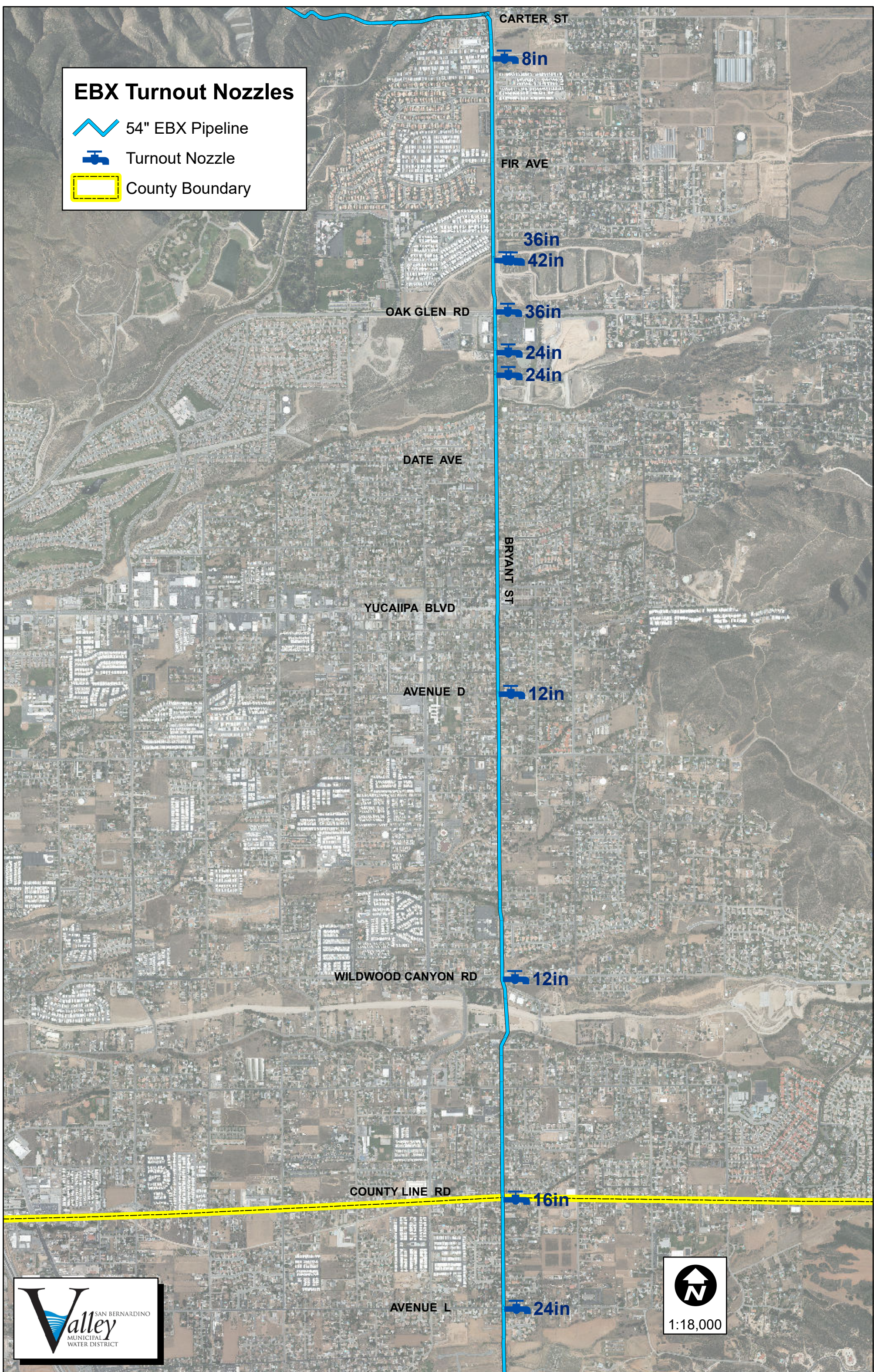
**The BMPs and Guidance Documents do not serve as a substitute for the GSP Regulations or the provisions in SGMA.** Those GSAs submitting a GSP are strongly encouraged to fully read the GSP Regulations and the text of SGMA. In addition, using these BMPs to develop a GSP does not equate to an approval determination by DWR.



**Figure 2. Logical Progression of Basin Activities Needed to Increase Basin Sustainability**

### EBX Turnout Nozzles

-  54" EBX Pipeline
-  Turnout Nozzle
-  County Boundary





# Yucaipa GSA

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**Groundwater Sustainability Plan  
Development Update**

# Topics

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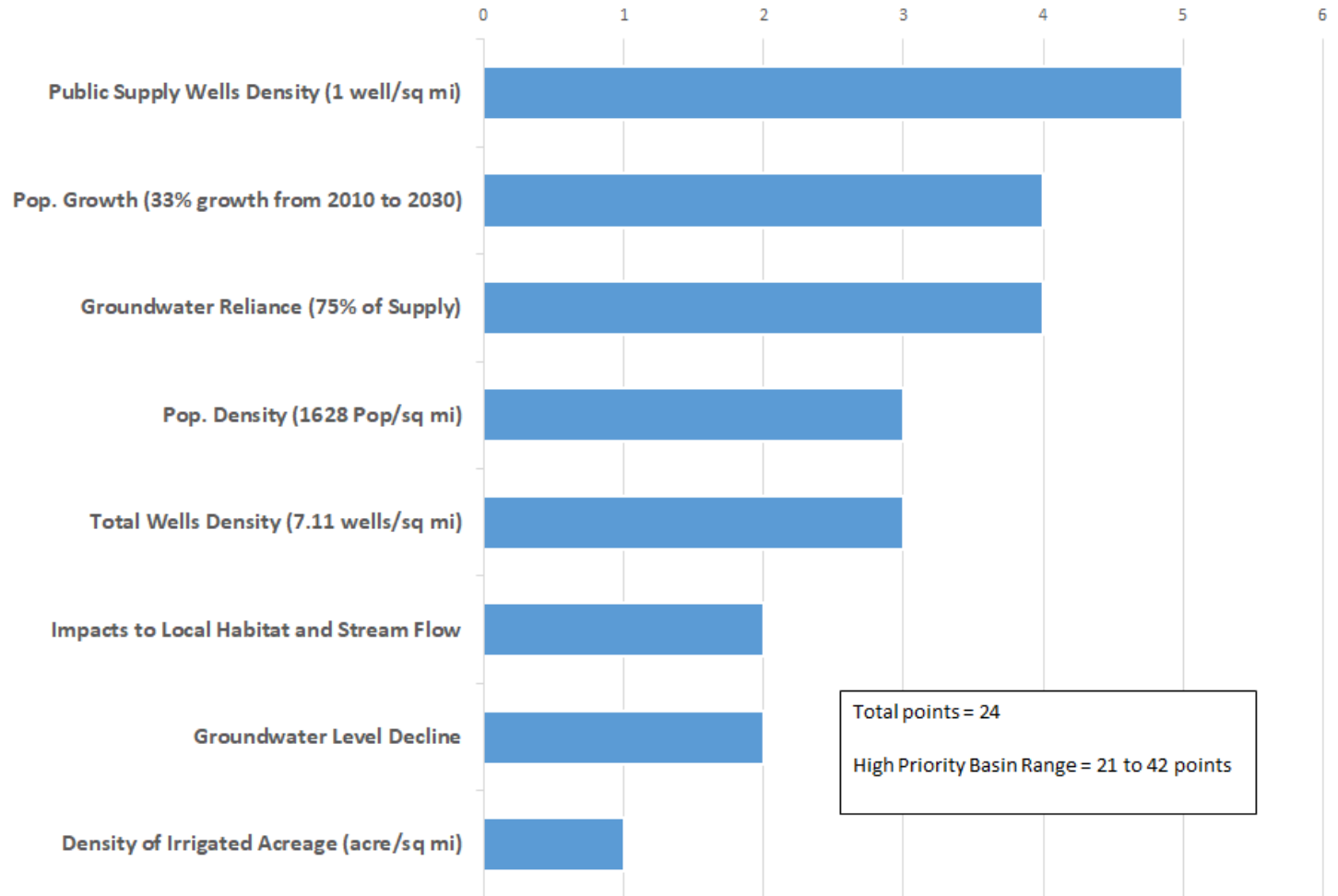
- ❖ Background of process
- ❖ DWR Grant Update
- ❖ Dudek Update

# Groundwater Management Act

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- ❖ AB 1739 (Dickinson) 2014
- ❖ Integrated Management of Water Resource
  - ❖ Surface and Ground Waters
- ❖ Groundwater best managed locally
- ❖ Establishes the Authority of Groundwater Sustainability Agencies (GSA)
- ❖ Provides the Structure for developing a Groundwater Sustainable Plan (GSP)

### High Priority for Yucaipa Basin





# Background

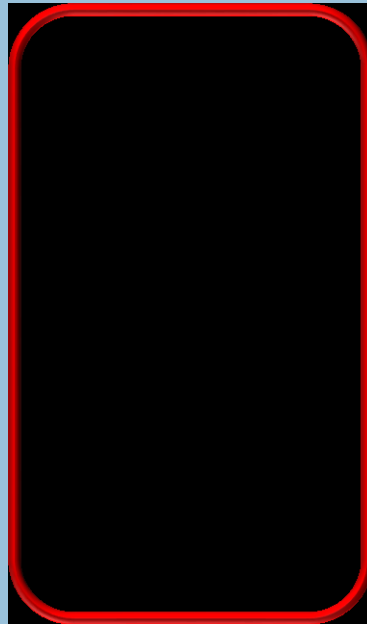
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THE FOUR PHASES OF DEVELOPING A GSP

# Phases of GSP Development and Implementation



**Phase 1**  
GSA Formation  
and Coordination



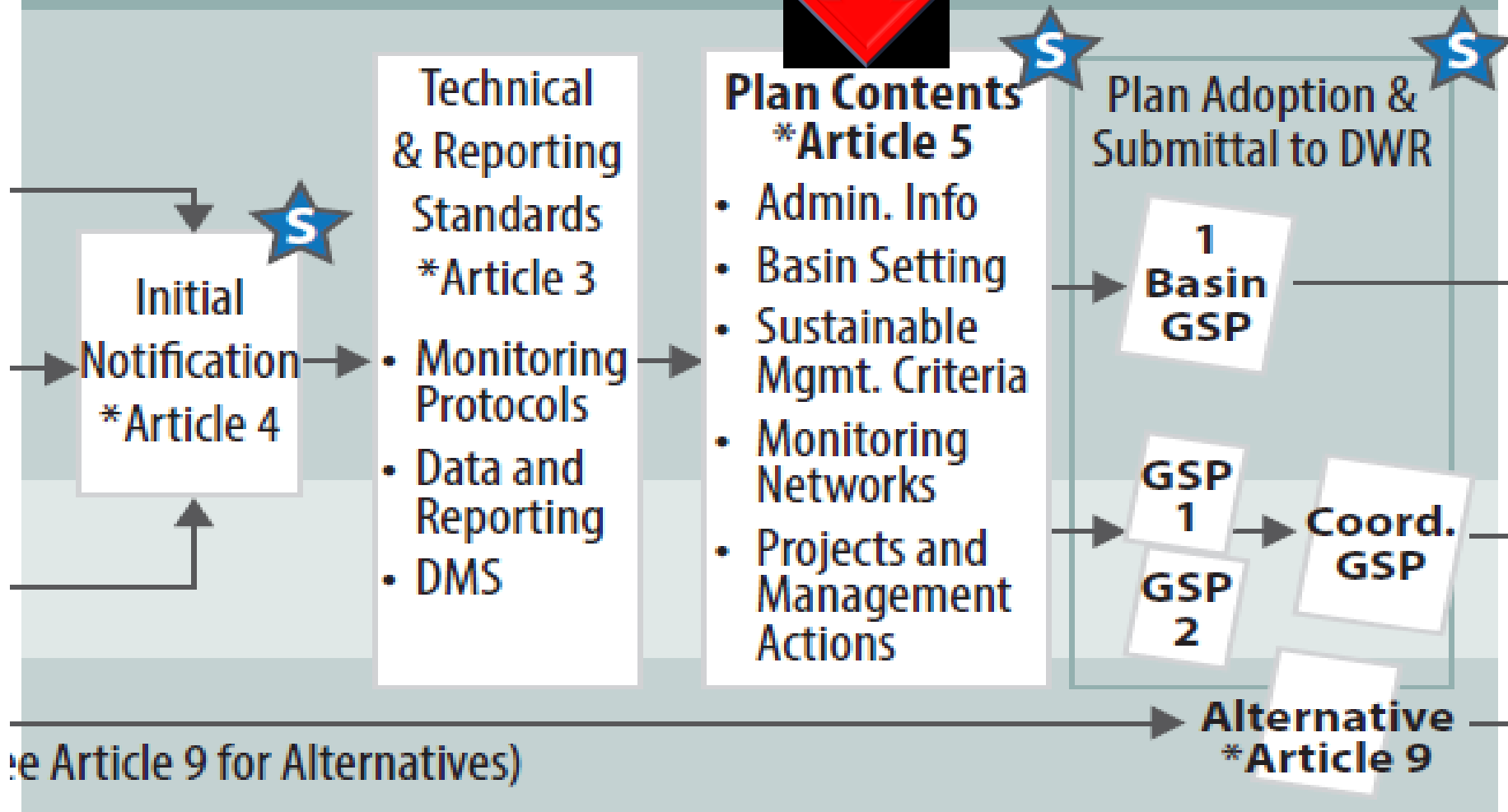
**Phase 3**  
GSP Review  
and Evaluation



**Phase 4**  
Implementation  
and Reporting



# GSP Preparation and Submission



# Plan Contents – DWR Outline

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- ❖ Admin info (Chapter 1)
- ❖ Basin Settings (Chapter 2)
  - ❖ Conceptual Model
  - ❖ Current and Historical Groundwater Conditions
  - ❖ Water Budget
  - ❖ Management Areas
- ❖ Sustainable Management Criteria (Chapter 3)
  - ❖ Sustainability Goal
  - ❖ Minimum Thresholds
  - ❖ Measurable Objectives
  - ❖ Monitoring Networks
- ❖ Projects and Management Actions (Chapter 4)
- ❖ Plan Implementation (Chapter 5)

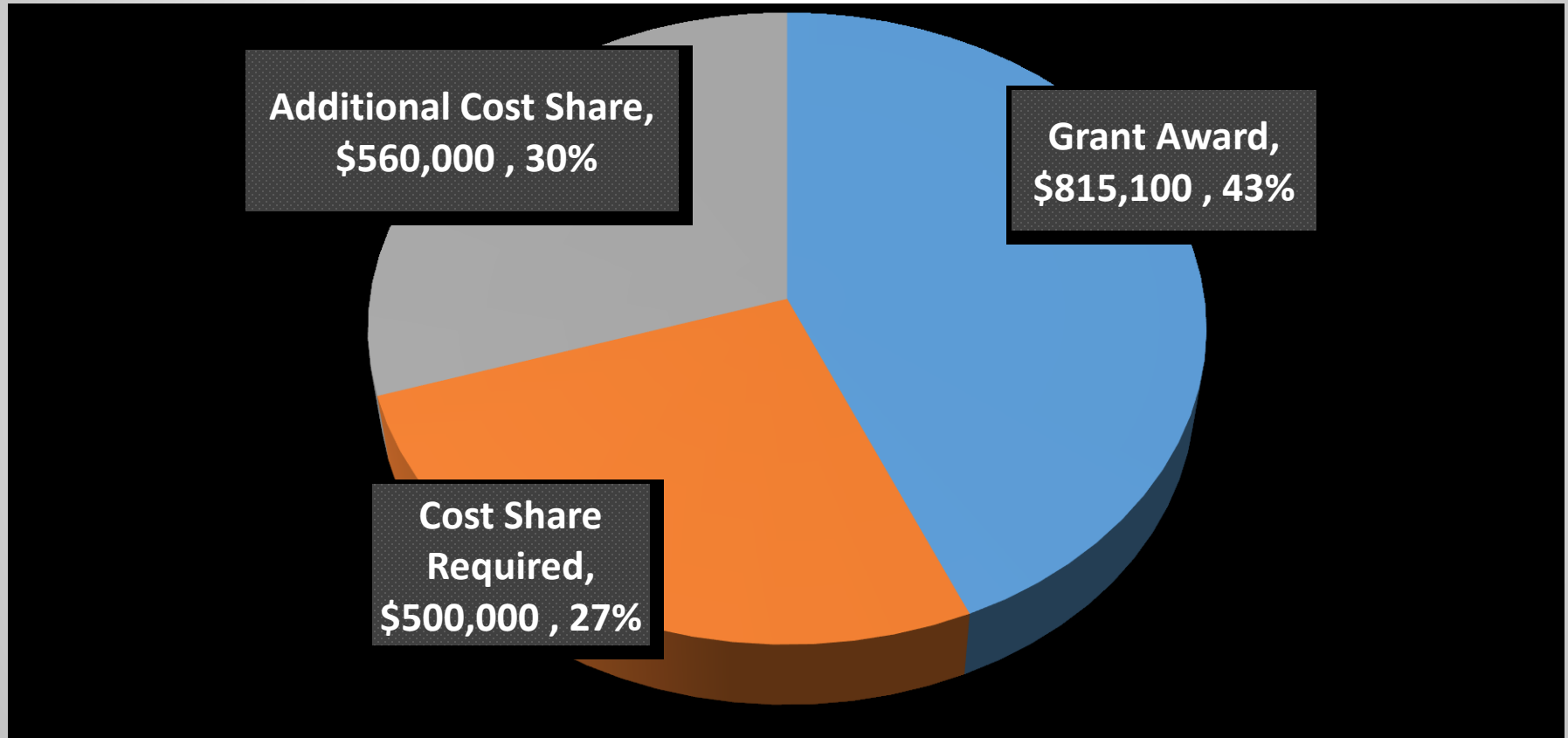
# Prop 1 Grant

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BACKGROUND

TRACKING

## Prop 1 Grant Funding Breakdown \$1,875,100 agreement



## Prop 1 Grant Funding Breakdown Category (A) Administration

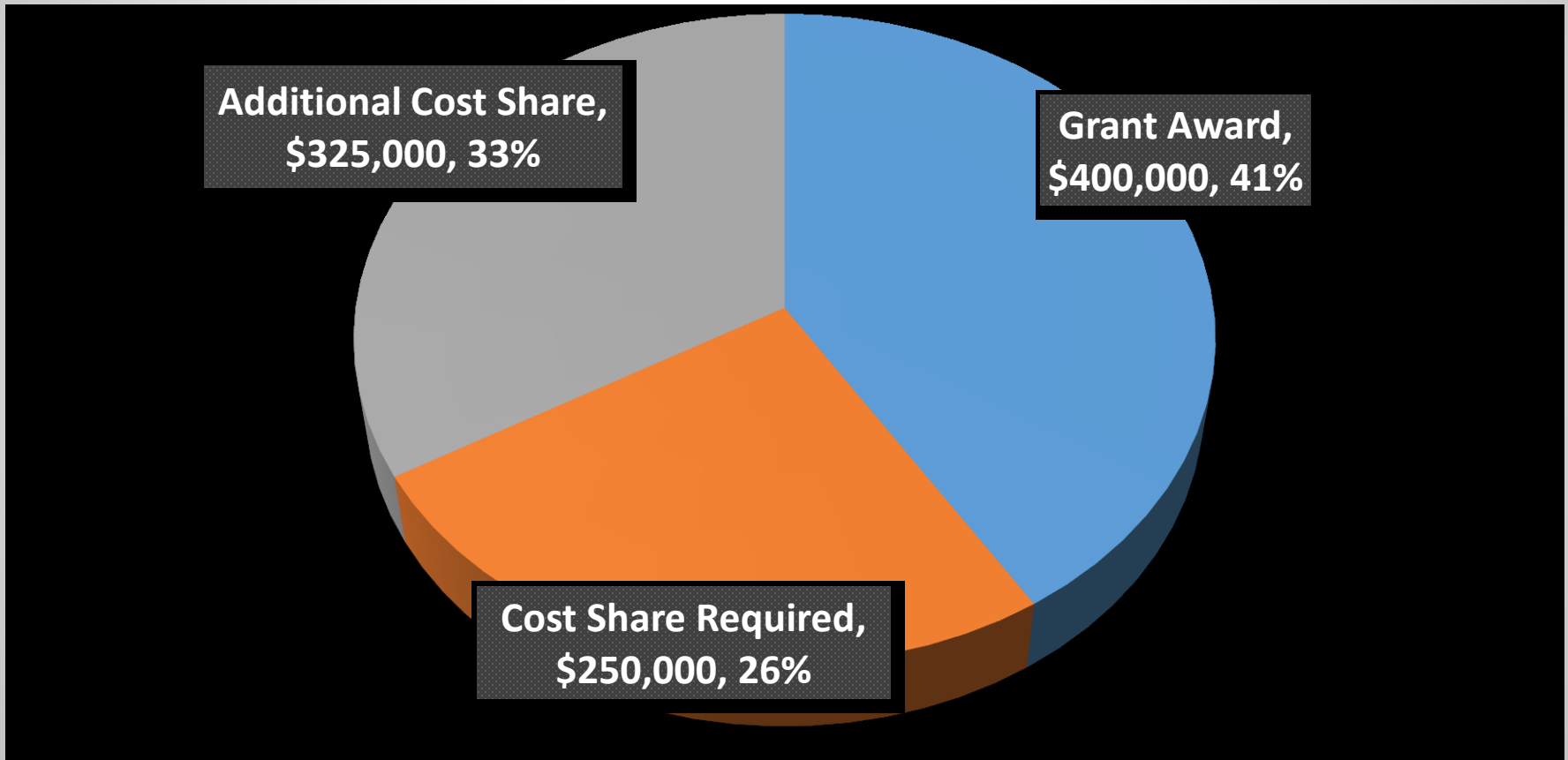
**Grant Award,  
\$0, 0%**

**Additional Cost  
Share, \$0, 0%**



**Cost Share Required,  
\$20,000, 100%**

### Prop 1 Grant Funding Breakdown Category (B) Planning Activities



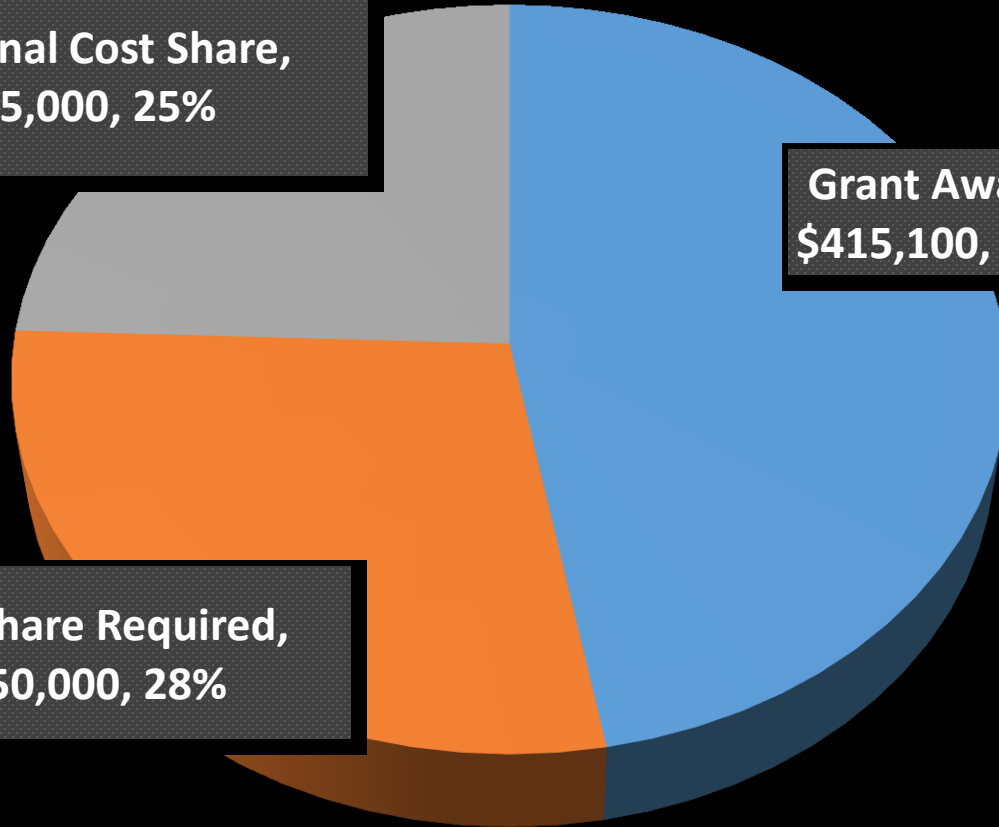


## Prop 1 Grant Funding Breakdown Category (C) GSP Development

**Additional Cost Share,  
\$215,000, 25%**

**Grant Award,  
\$415,100, 47%**

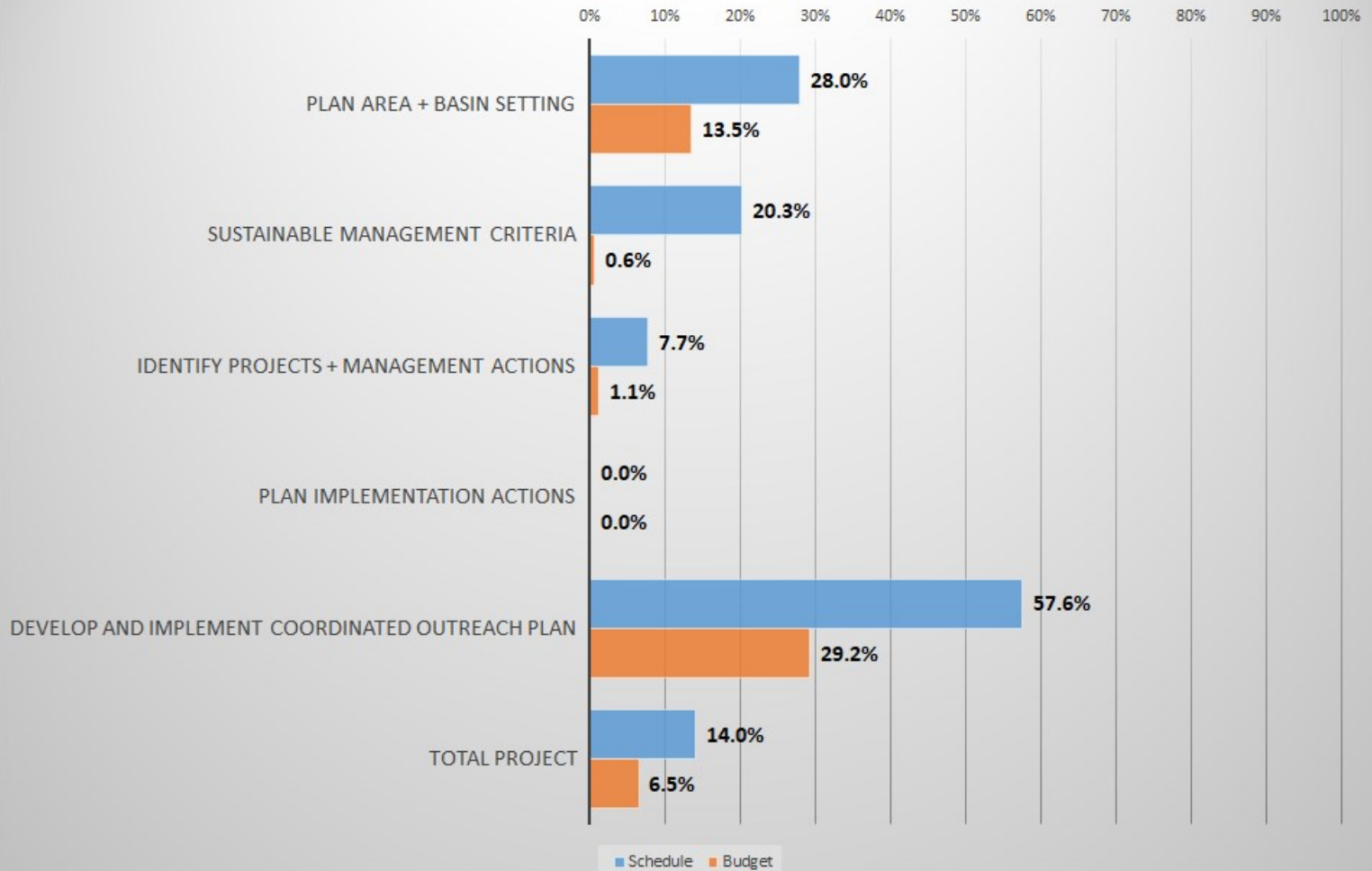
**Cost Share Required,  
\$250,000, 28%**



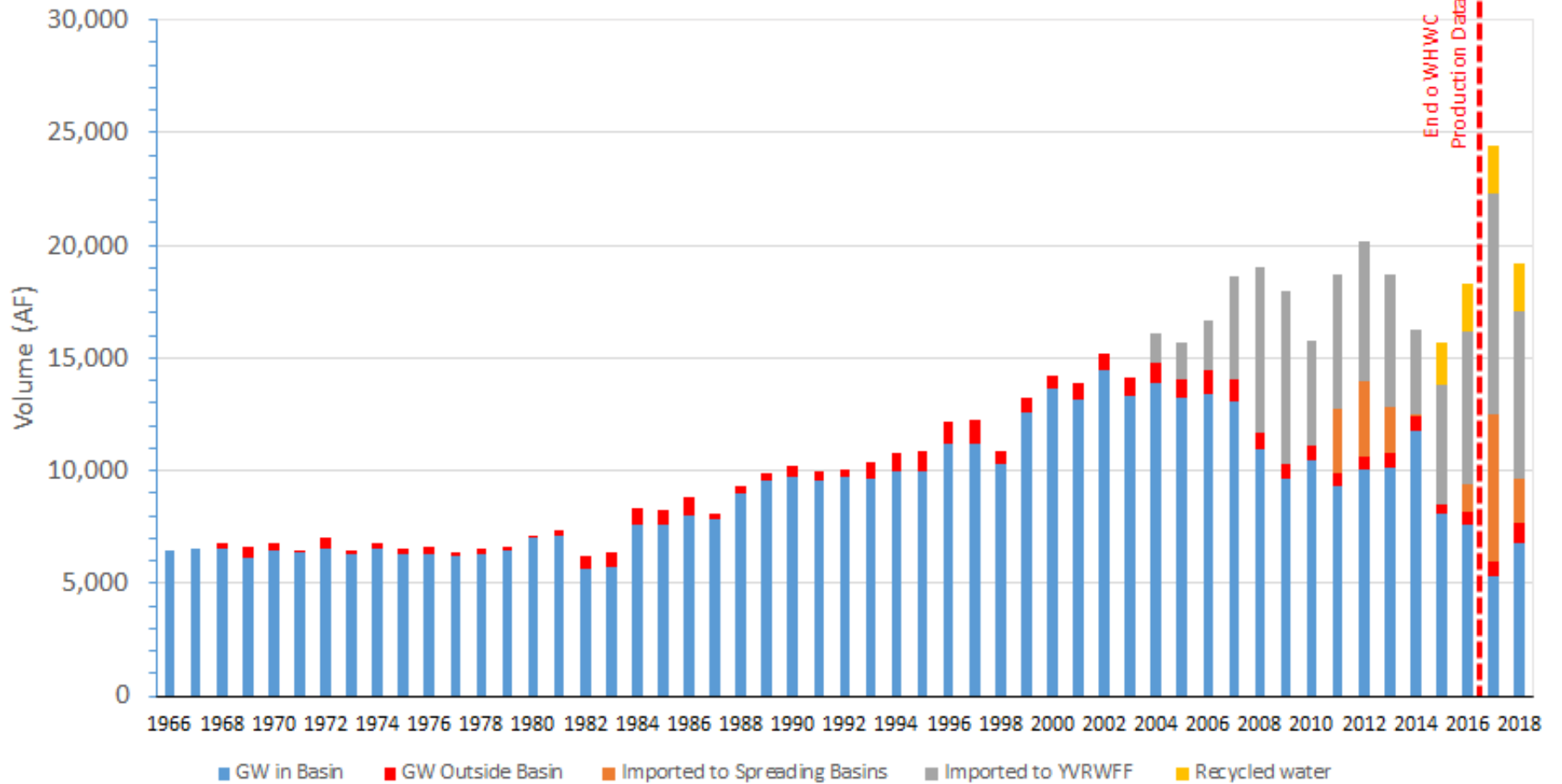
# Yucaipa GSP Development

Task	End Date	2019											
		M	A	M	J	J	A	S	O	N	D		
Plan Area + Basin Setting	12/20/19												
Sustainable Management Criteria	12/27/19												
Identify Projects + Management Actions	09/27/19												
Plan Implementation Actions	12/13/19												
Develop and Implement Coordinated Outreach Plan	05/31/19												
Total Project	05/24/21												

## Yucaipa GSP Development (as of 3/20/19)

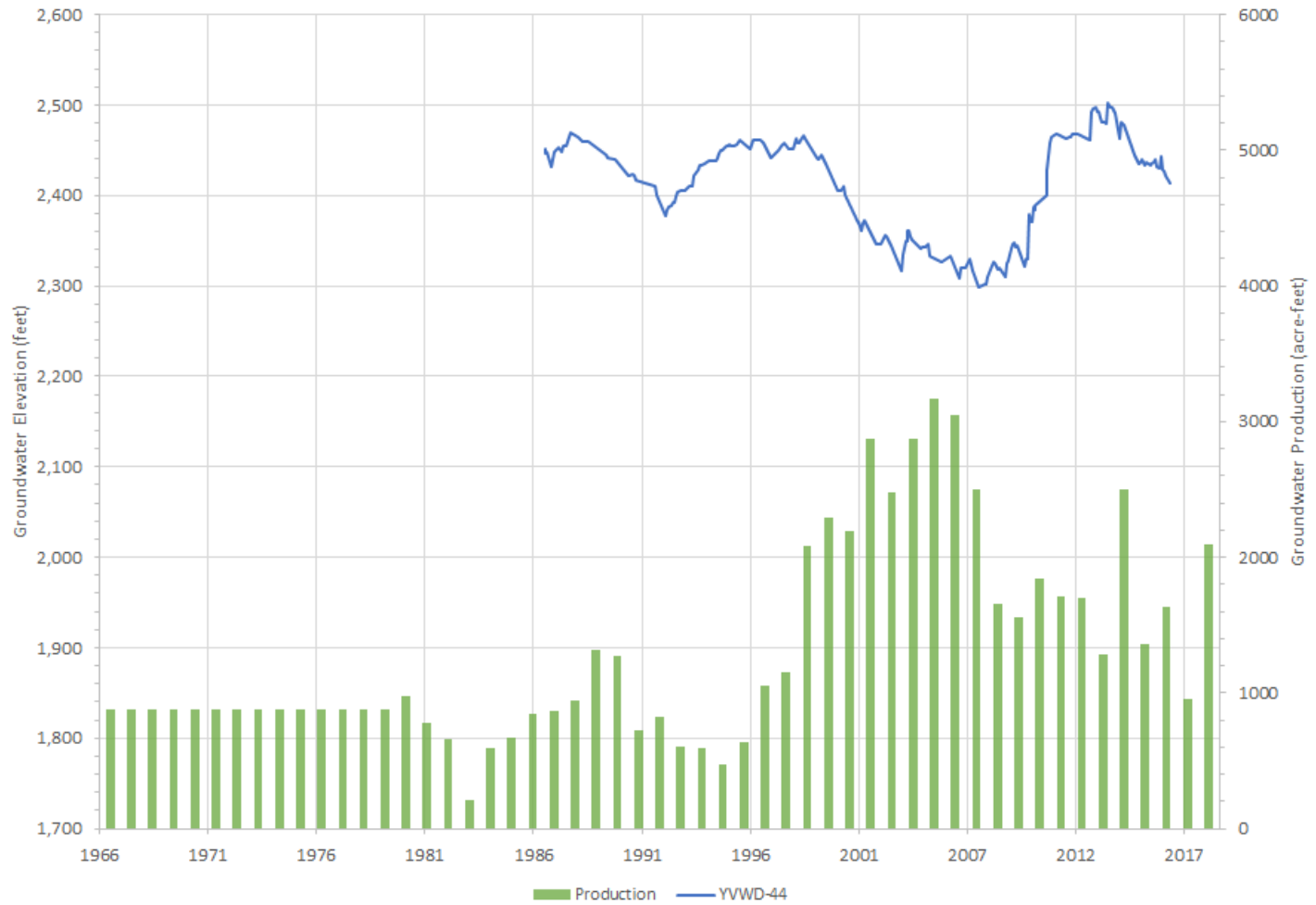


# Water Resources in Basin

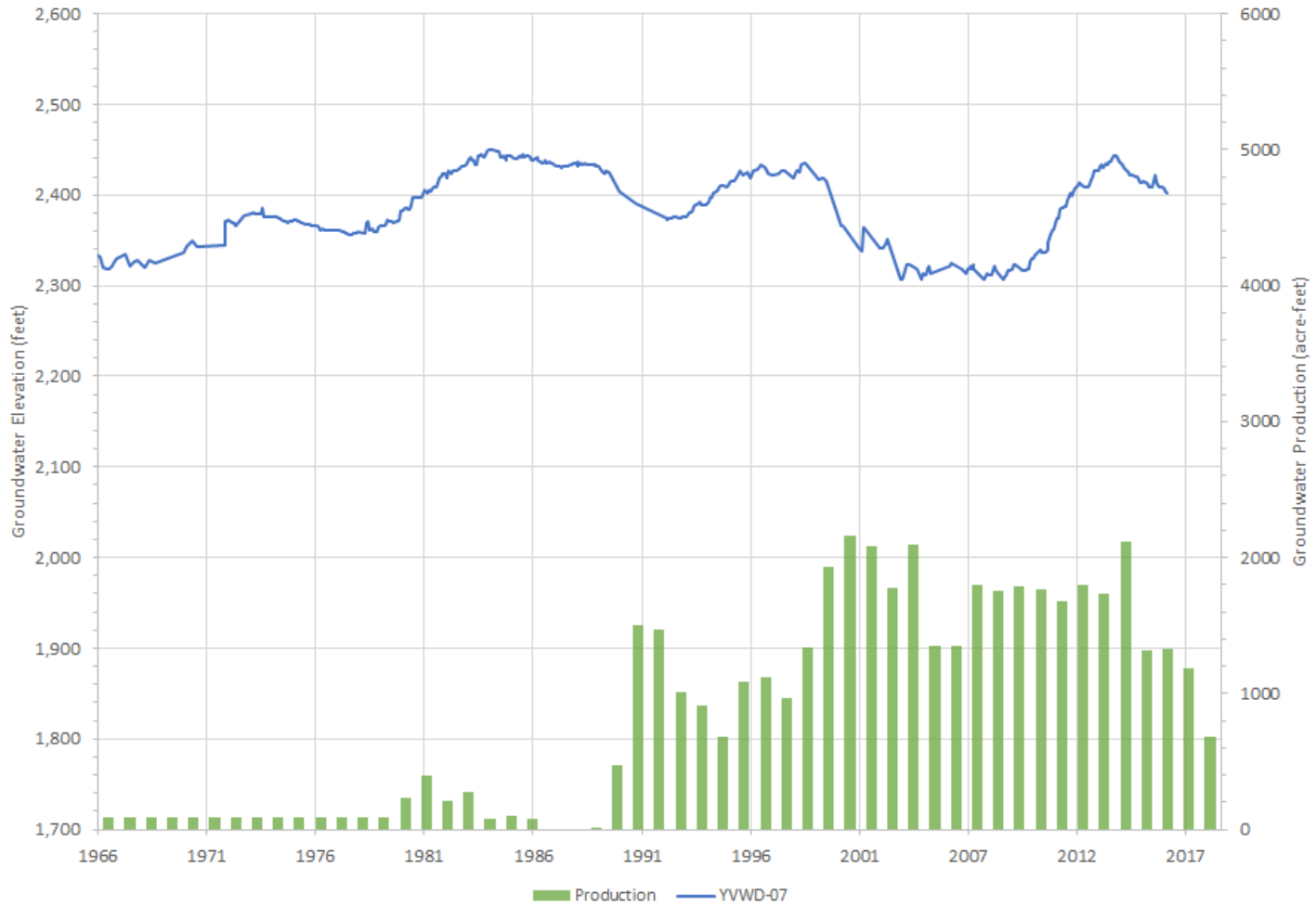


	SMWC	WHWC	YVWD	Redlands	USGS	Basin
Plan View Maps and Cross-Sections						
Locations and Elevations of Wells	12 of 12 (SMWC)	12 of 12 (WHWC + GSSI)	57 of 57 (YVWD + GSSI)	2 of 2 (GSSI)	18 of 18 (USGS)	
GIS Coverages (boundaries, land uses)					USGS	GSSI
Groundwater Database						
Well Construction	7 of 12 (SMWC + GSSI)	11 of 12 (WHWC)	33 of 57 (YVWD + GSSI)	2 of 2 (GSSI)	18 of 18 (USGS)	
Groundwater Production	7 of 12 (USGS + GSSI), Ann SMWC	10 of 12 (USGS + GSSI)	38 of 57 (YVWD + GSSI)	2 of 2 (GSSI)	NA	
Groundwater Levels	9 of 12 (SMWC + GSSI)	8 of 12 (WHWC + GSSI)	56 of 57 (YVWD + GSSI)	2 of 2 (Red + GSSI)	18 of 18 (USGS)	
Groundwater Quality	8 of 12 (SMWC)	5 of 12 (WHWC)	16 of 57 (YVWD)	2 of 2 (Redlands)	18 of 18 (USGS)	
Geological Database - Lithology	GSSI	GSSI	GSSI		USGS	USGS, GSSI
Surface Water Database						
Imported Water	NA	NA	YVWD	NA	NA	
Recycled Water	NA	NA	YVWD	NA	NA	
Surface Water	NA	NA	YVWD	NA	NA	

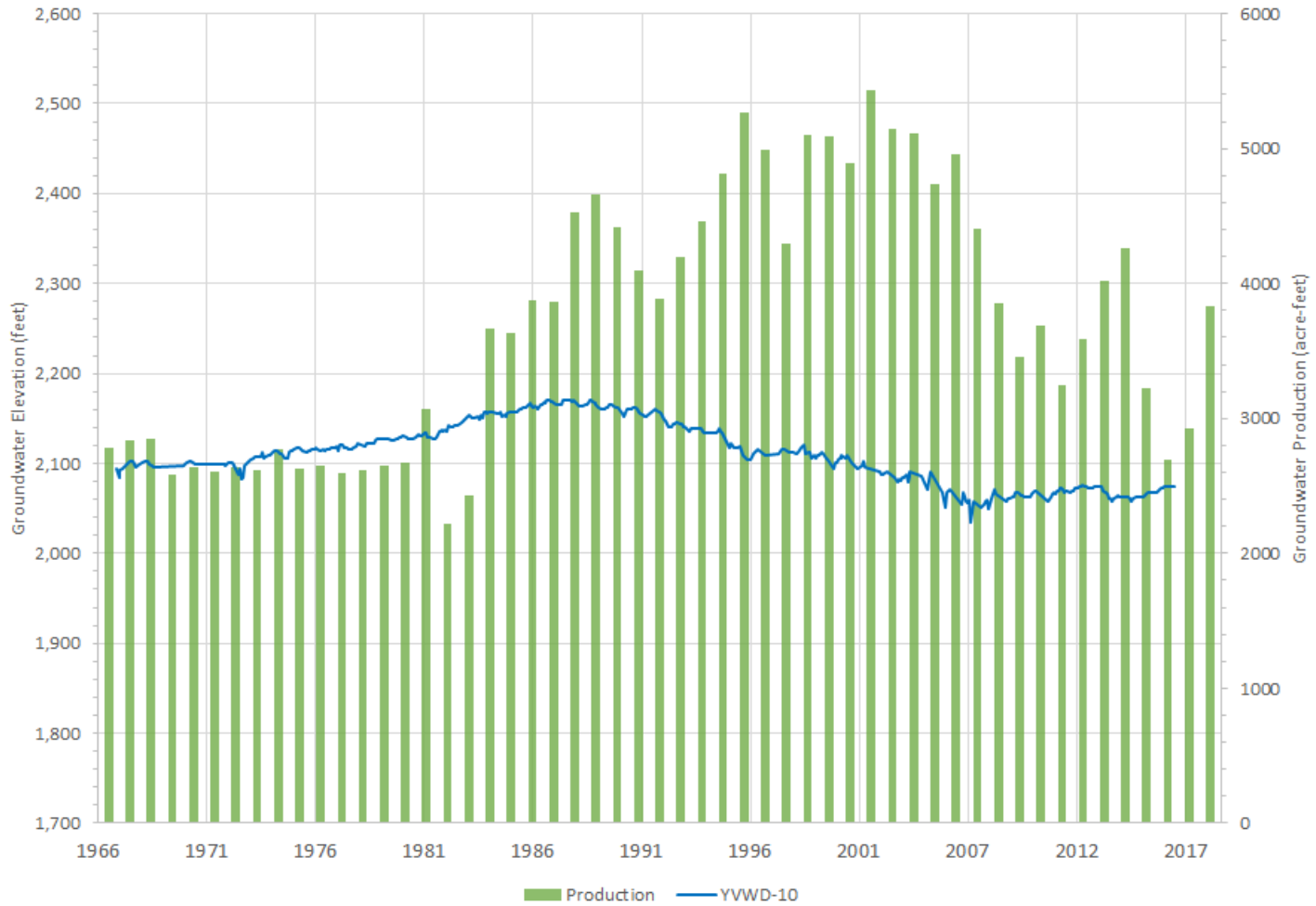
# Gateway



# Wilson Creek



# Calimesa





# Western Heights

