



- <u>Task 1: Project Management and Coordination</u>
- Task 2: Grant Strategy, Eligibility, and Guideline Updates
  - Review PSP
  - Determine Eligibility
  - Recommend County-wide Strategy
- Task 3: Collect Compliance Documentation (Optional) Optional task not required
  - completion of Groundwater Management Plans
  - inclusion in the California Statewide Groundwater Elevation Monitoring (CASGEM) program
    - completion of Urban Water Management Plans and Agricultural Water Management Plans
  - filing of Surface water diversion reports
  - establishment of Water conservation (SBx7-7) targets
- <u>Task 4: Authority Member Outreach</u>
- Task 5: Meetings with ESJ Groundwater Authority
- Task 6: Grant Writing and Submittal

# **Key Points**

- \$2,176,660 Total GSP Cost Estimate
- Apply for a Disadvantaged Community Waiver
  If approved, local cost share is reduced to 25%.
- Apply for the Maximum \$1.5M Grant Amount
- Cost Estimate Sufficient to Ensure Funds are Adequate for Substantially Compliant GSP
- Standard is Substantial Compliance
- Optional Task to Construct Monitoring Wells
- Propose a Budgetary Approach Expend Only What Needed
- Compressed Schedule:
  - Effective Completion Date June 30, 2019

# **Cost Estimate Summary**

				85% Auth.	
1.	Project Management	\$115,240	5%	\$97,950	
2.	Develop Fundamental Tools				
	2.1 Communications & Engagement Plan and Tracking System	\$44,560	2%	\$37,880	
	2.2 Data Management System	\$193,600	9%	\$164,560	
	2.3 Water Accounting & Sustainable Management Framework	\$68,800	3%	\$58,480	
	2.4 Monitoring Wells (Optional)	\$208,400	10%	\$0	
3.	Administrative Information	\$263,560	12%	\$224,030	
4.	Communications and Engagement	\$465,900	21%	\$396,020	
- 5.	Basin Setting	\$129,600	6%	\$110,160	
6.	Groundwater Conditions	\$117,360	5%	\$99,760	
7.	Water Budget	\$80,280	4%	\$68,240	
8.	Sustainable Management Criteria	\$121,080	6%	\$102,920	
9.	Projects and Management Actions	\$103,640	5%	\$88,090	
10	. Establish Monitoring Networks	\$210,120	10%	\$178,600	
11	. Submit Groundwater Sustainability Plan to DWR	\$54,280	2%	\$46,140	
Tot	al	\$2,176,420	100%	\$1,672,830	

### **DAC Waiver Granted Scenario**

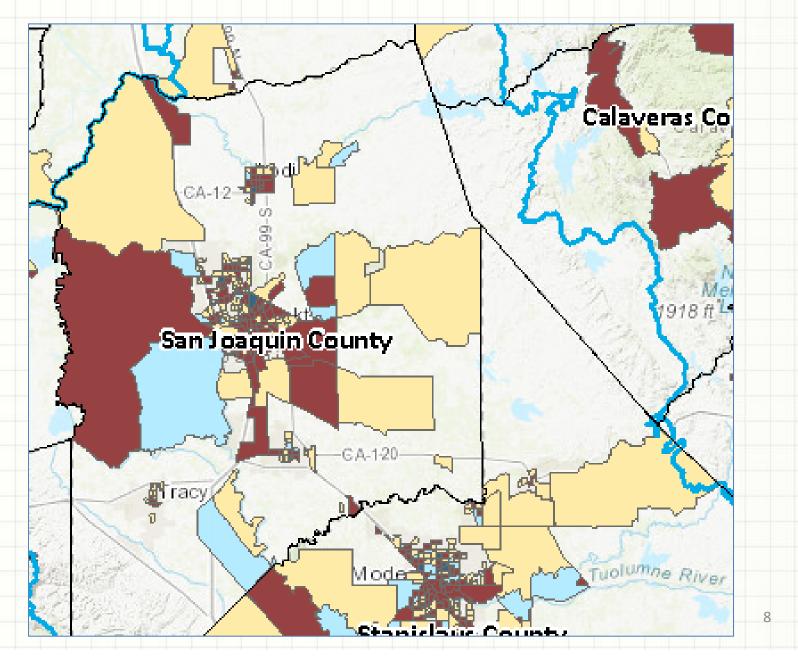
- Total Work Plan Cost = \$2,176,420
- Max. DWR Share with DAC Waiver = \$1,500,000
- Local Cost Share = \$676,420
- Zone 2 Contribution = \$450,000
- Remaining Difference = \$226,420

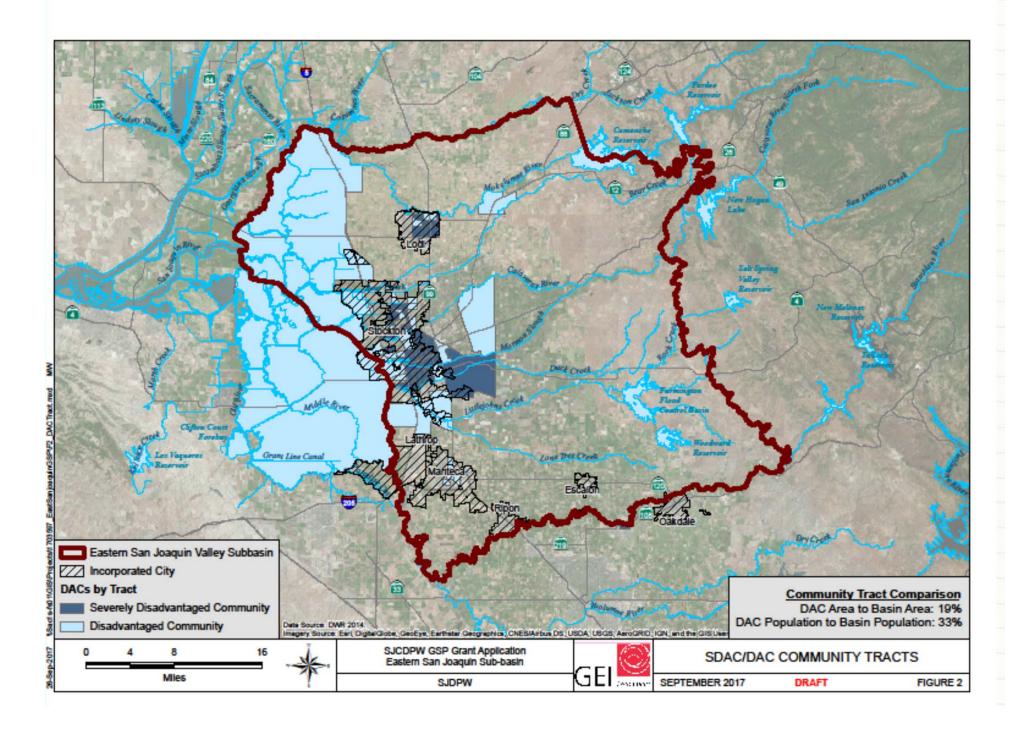
### **GSP Grant Near-Term Schedule**

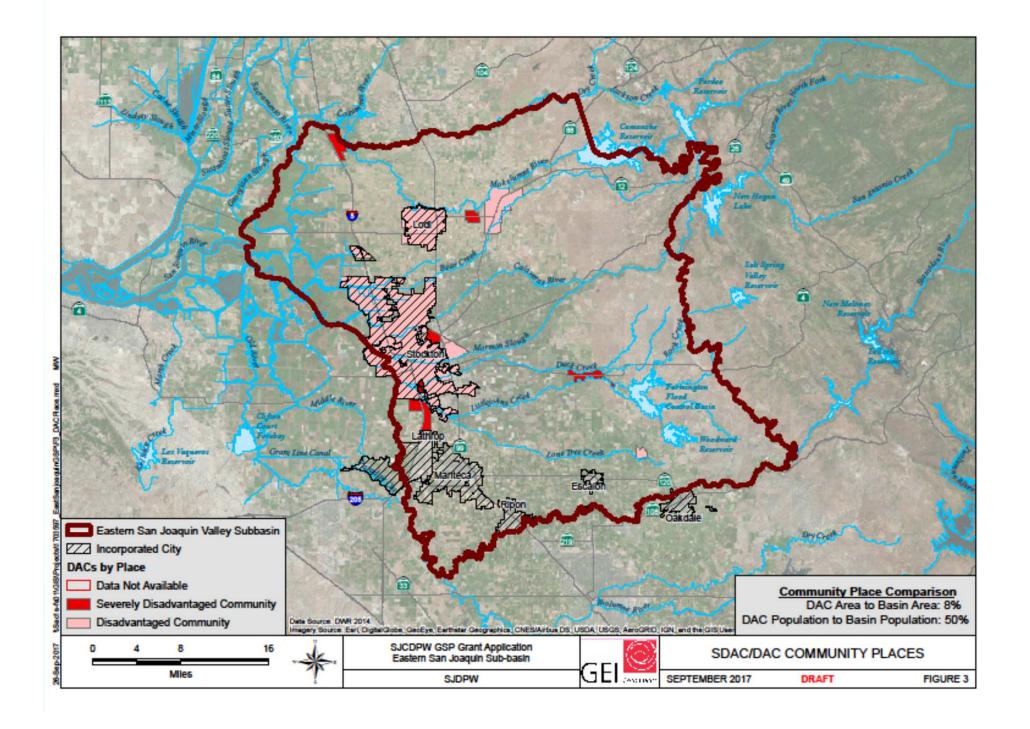
- October 11
  - Present GSP Application
  - Approve Resolution Authorizing Submittal of Application
  - Action can be Deferred to November 8 Authority Board Meeting
- No Later Than November 13
  - Submit Final Application.
  - Eligibility Documentation (CASGEM, etc.)
  - Letters of Support for DAC Waiver.
  - Concurrent Release of Request for Proposals for GSP Development to Select Consultant
- February
  - Cost-allocation Plan Finalized and Agreed to by GSAs
  - Authority to Approve Funding Agreement with DWR

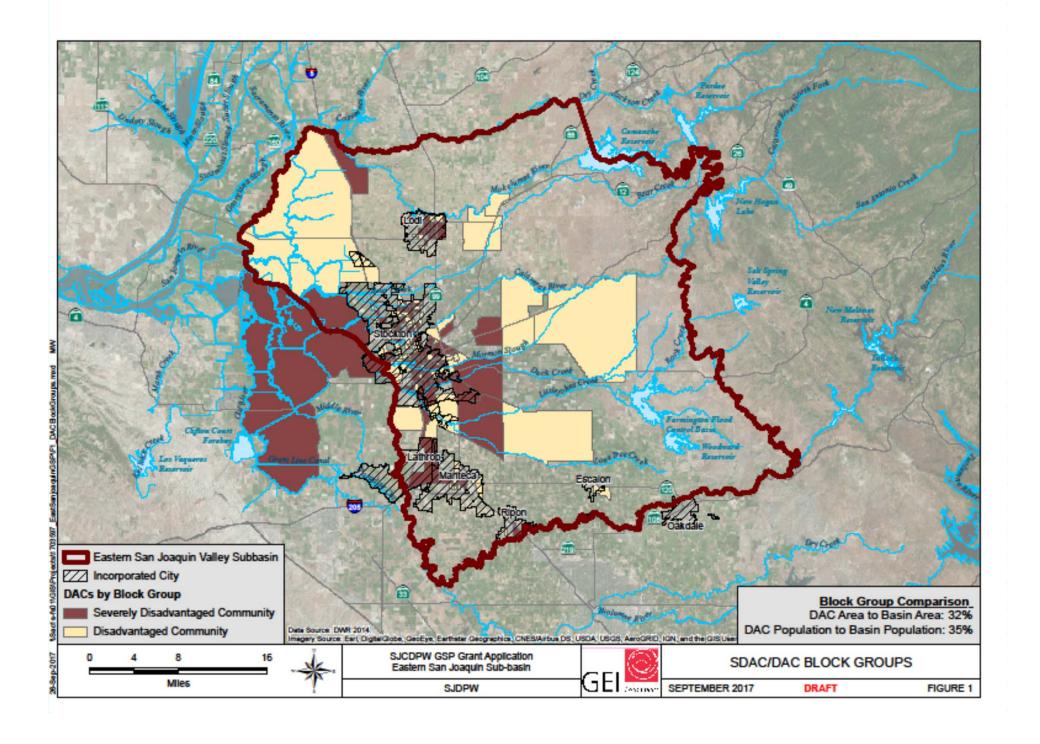
# **Technical Slides**

### DAC Area = Less than 50% of Basin









### 1. Project Management

- 1.1. Kick-off Meeting
- 1.2. Coordination Meetings
- 1.3. Grant Management
- 1.4. Reporting
  - 24 Monthly Meetings
  - 9 Quarterly Grant Management Reports
  - \$115K (5%)

### 2. Develop Fundamental Tools

Fundamental tools to shape the work to be done and guide level of effort (\$307K, 14%)

- 2.1. Develop Stakeholder Communication & Engagement Plan and Tracking System
- 2.2. Develop Data Management System
- 2.3. Develop Water Accounting & Sustainable Management Framework
  - Hydrologic Assessments and Forecasting
  - Water Shortage and Cost Allocation Strategy
  - Approach for Setting Sustainable Management Criteria
  - Approach to Identifying & Filling Data Gaps
- 2.4 Construct Monitoring Wells (5 pairs) along Stream Channels (optional)
  - \$208K (10%)

### 3. Administrative Information

### 3.1. Background

- Plain-language Executive Summary
- List of references and technical studies
- Agency Information
- Maps
- Description of Plan Area & Jurisdictions
- 3.2. Water Resource Monitoring and Management Programs
- 3.3. Land Use Elements of General Plans
- 3.4. Additional GSP Elements Characterizing Subbasin Conditions
  - Control of saline water intrusion
  - Migration of contaminated groundwater
  - Well abandonment and well destruction program
  - Replenishment of groundwater extractions
  - Conjunctive use and underground storage
  - Impacts on groundwater dependent ecosystems
- Rely on IRWMP & Updated Model
- New topics including Groundwater Dependent Ecosystems
- \$264K (12%)

### 4. Communications and Engagement

### 4.1. Perform Outreach and Communication

- 4.1.1. Description of beneficial uses and users
- 4.1.4. Decision-making process
- 4.1.5. Public engagement
- 4.2. Summarize Notifications and Communications
- 4.3 Stakeholder Involvement
  - 4.3.1 Groundwater Authority JPA Meetings
  - 4.3.2 Technical Committee Meetings
  - 4.3.2 Other Committee Meetings
- \$466K (21%)

### Basin Setting

- 5.1. Physical Setting and Characteristics
- 5.2. Hydrogeologic Conceptual Model
  - 5.2.1. Physical Components
  - 5.2.2. Regional Geologic and Structural Setting
  - 5.2.3. Lateral Basin Boundaries
  - 5.2.4. Definable Bottom of Basin
  - 5.2.5. Principal Aquifers and Aquitards
  - 5.2.6. Cross-Sections and Maps
  - 5.2.7. Map of Recharge Areas
- 5.3. Identification of Data Gaps and Uncertainty
- Rely on IRWMP and Updated Model to extent possible
- \$130K (6%)

### 6. Groundwater Conditions

- 6.1. Description of Current and Historical Groundwater Conditions
  - Summarize Groundwater Elevations
  - Calculate Change in Storage
- 6.2. Describe Groundwater Quality Issues
- 6.3. Describe Interconnected Surface Water Systems
- 6.4. Describe Groundwater Dependent Ecosystems
- 6.5. Surface Water Supply
  - Water used or available for groundwater recharge
- 6.6. Management Areas
  - Reason for creation of each management area
  - Minimum thresholds and measurable objectives for each management area
  - Level of monitoring and analysis
  - Description of how management areas will not cause undesirable results to adjacent areas
- Use Updated Model for Current and Historical Conditions
  - Includes 1995-2015 only
- \$117K (5%)

### 7. Water Budget

- 7.1. Apply Groundwater Modeling
  - Quantify Overdraft
  - Estimate Sustainable Yield
- 7.2. Historical Water Budget Evaluation
  - Evaluate Surface Water Reliability
  - Evaluate Aquifer Response Relative to Supply and Demand
  - Estimate Uncertainty in Supply and Response
- 7.3. Projected Water Budget
  - Estimate Future Baseline Supply, Demand and Response
  - Estimate Aquifer Response to Plan Implementation
  - Estimate Uncertainty in Supply and Response
- Use Updated Model for Current and Historical Condition
  - Includes 1995-2015 only
- \$80K (4%)

### 8. Sustainable Management Criteria

- 8.1. Establish Sustainability Goals
- 8.2. Develop Processes and Criteria to Define Undesirable Results
  - Description of undesirable results
  - Cause of groundwater conditions that would lead to undesirable results
  - Criteria used to define undesirable results for each sustainability indicator
  - Potential effects of undesirable results on beneficial uses and users of groundwater
- 8.3. Establish Minimum Thresholds and Sustainability Indicators
  - Description of each minimum threshold and how they were established for each sustainability indicator
- 8.4. Define Measurable Objectives to Obtain Goals in 20 Years
  - Description of establishment of the measurable objectives for each sustainability indicator
  - Description of how a reasonable margin of safety was established for each measurable objective
  - Description of interim milestones
- \$121K (6%)
- Simplified accounting method will substantially reduce effort

# 9. Projects and Management Actions

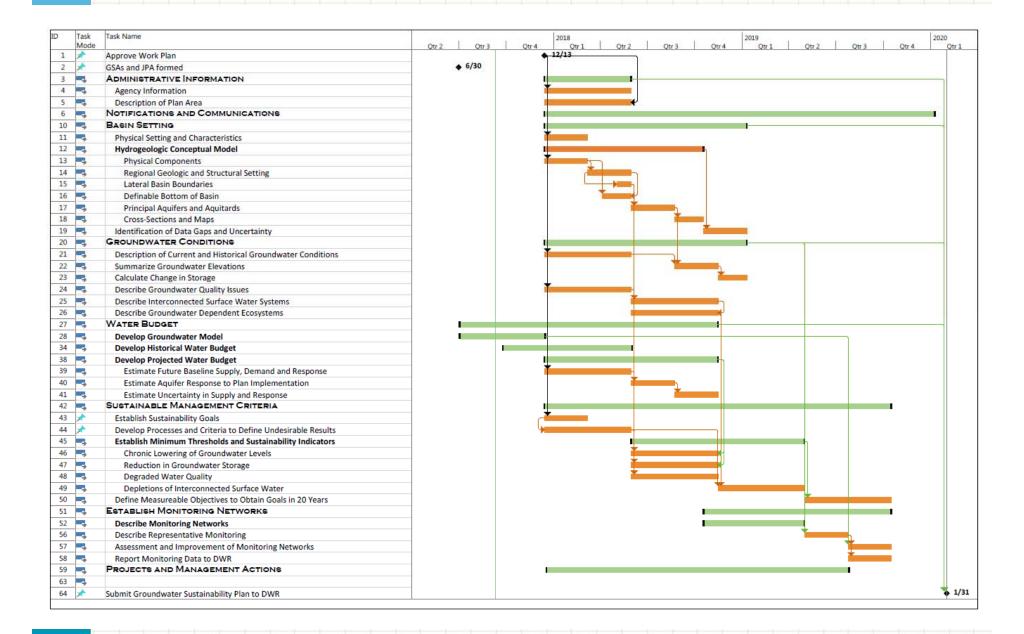
- 9.1. Determine Projects and Management Actions
- 9.2. Evaluate Response to Projects and Management Actions
- 9.3. Describe Projects and Management Actions
  - Measurable objective that is expected to benefit from each project and management action
  - Management of groundwater extractions and recharge
  - Overdraft mitigation projects and management actions
  - Estimated costs and plans to meet those costs
  - Public noticing
  - Permitting and regulatory process
  - Time-table for initiation and completion
  - Expected benefits and how they will be evaluated
  - Legal authority required
- Use IRWMP Project List
- Include Management Actions
- \$104K (5%)

### 10. Establish Monitoring Networks

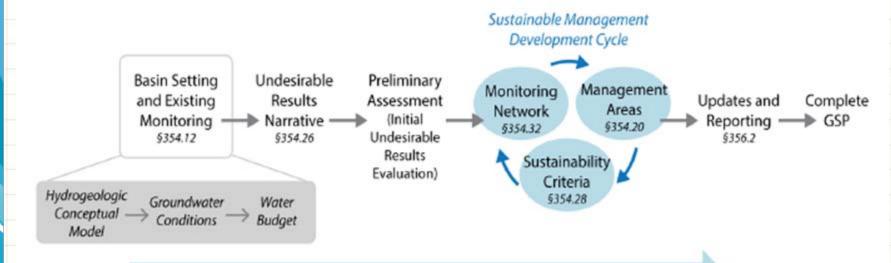
- 10.1. Description of monitoring network (density, frequency, rationale)
- 10.2. Description of monitoring network objectives
- 10.3. Describe Monitoring Protocols
- 10.4. Describe Representative Monitoring
- 10.5. Assessment and Improvement of Monitoring Networks
- 10.6. Report Monitoring Data to DWR
- Reduced costs from representative monitoring
- Reduced costs from simplified accounting
- Reduced costs from minimizing number of management areas
- \$210K (10%)

# 11. Submit Groundwater Sustainability Plan to DWR

- 11.1. Publish Draft Plan
- 11.2. Public Hearing
  - 11.2.1. Provide public notice on intent to adopt plan
  - 11.2.2. Hold public hearing (90 days after notice)
- 11.3. Adoption by GSAs (after public hearing)
- 11.4. Submit GSP
- Target Completion Date June 30, 2019
- \$54K (2%)



# Requirements in SGMA Regulations



Water Accounting Framework, Management Actions, Projects, and Adaptive Management §354.42

### **Key Assumptions**

- 1. Interactive Process
- 2. Steady Progress
- 3. GSA Responsibilities
- 4. Short Implementation Horizon
- 5. Probable Overdraft
- 6. Solution & Surface Supply
- 7. Define Solutions & Prove They're Working
- 8. Keep it Simple & Regional
- 9. Minimize Management Areas
- 10. Consider Range of Solutions
- 11. Subbasin-Wide Data Management
- 12. Empirical Proof

# Factors that Might Decrease or Increase the GSP Effort

- 1. Streamline the Stakeholder Involvement process
- 2. Use updated model efforts to characterize current conditions and water budget
- 3. Number of Management Areas selected for the basin
- 4. Simplified water use accounting
- 5. Subbasin-wide accounting for natural recharge
- 6. Use representative monitoring sites

### **Groundwater Sustainability Plan (GSP)**

- Develop GSP Scope
- Prepare Application
- Submit

