

Groundwater Sustainability Commission
of the San Luis Obispo Valley Groundwater Basin

Special Meeting Agenda

July 26, 2018

NOTICE IS HEREBY GIVEN that the Groundwater Sustainability Commission of the San Luis Obispo Valley Groundwater Basin will hold a Special Meeting at **3:00 P.M. on Thursday, July 26, 2018** at the SLO City/County Library Community Room, 995 Palm Street, San Luis Obispo, CA 93401.

NOTE: In compliance with the Americans with Disabilities Act, if you need disability-related modifications or accommodations to participate in this meeting, please contact Joey Steil at (805) 781-4076. The Groundwater Sustainability Commission reserves the right to limit each speaker to three (3) minutes per subject or topic.

Adam Hill, Member, County of San Luis Obispo
Bob Schiebelhut, Chair, EVGMWC
Dennis Fernandez, Member, ERMWC/VRMWC
Mark Zimmer, Vice Chair, GSWC
Andy Pease, Member, City of San Luis Obispo

Bruce Gibson, Alternate, County of San Luis Obispo
George Donati, Alternate, EVGMWC
James Lokey, Alternate, ERMWC/VRMWC
Toby Moore, Alternate, GSWC
Carrie Mattingly, Alternate, City of San Luis Obispo

1. **Call to Order** (Chair)
2. **Roll Call** (City Staff: Aaron Floyd)
3. **Pledge of Allegiance** (Chair)
4. **Public Comment – Items not on Agenda** (Chair)
5. **Review Draft Scope of Work for Groundwater Sustainability Plan (GSP) Development**
(City/County Staff: Aaron Floyd/Dick Tzou; Alternate Member: Toby Moore)

Recommendation

Receive an overview of the draft scope of work for the upcoming Request for Proposal (RFP) for the development of a San Luis Obispo Valley Groundwater Basin GSP.

6. **Adjourn** (Chair)

GROUNDWATER SUSTAINABILITY COMMISSION
of the San Luis Obispo Valley Groundwater Basin
July 26, 2018

Review Draft Scope of Work for the Groundwater Sustainability Plan (GSP) Development
(Presentation Item)

Recommendation

Receive an overview of the draft scope of work for the upcoming Request for Proposals (RFP) for the development of a San Luis Obispo Valley Groundwater Basin GSP.

Prepared By

City/County Staff: Aaron Floyd/Dick Tzou; Alternate Member: Toby Moore

Discussion

On May 7, 2018, the California Department of Water Resources (DWR) notified the County of San Luis Obispo (County) that it was conditionally awarded \$854,650 under the Proposition 1 Sustainable Groundwater Planning (SGWP) grant funding program, pending future execution of a Grant Agreement and various follow up steps. The purpose of this grant is to help fund the development of a Groundwater Sustainability Plan (GSP) for the San Luis Obispo Basin to comply with the Sustainable Groundwater Management Act (SGMA). The City of San Luis Obispo (City) and County intend to collaboratively solicit detailed technical and cost proposals to develop and prepare a GSP for the San Luis Obispo Basin, which must be adopted by the January 31, 2022 statutory deadline.

On April 16, 2018, the Groundwater Sustainability Commission (per MOA Section 7.2) took action to designate Commission alternate member, Toby Moore (and Commission member Mark Zimmer as his backup) to participate in GSP consultant selection processes with the County and City staff as a part of the consultant selection committee. The consultant selection committee prepared a draft scope of work (attached) for the Request for Proposals (RFP) on GSP development. This scope of work contains the following three primary tasks (with subtasks) based on the requirements of the GSP Regulations:

- Task 1: Project Administration
- Task 2: GSP Development & Adoption
- Task 3: Coordination & Communication

The consultant selection committee will present an overview of the scope of work for preparing a GSP and solicit input on the draft GSP scope of work from the Commission and the public. The presentation will include a timeline of anticipated milestones for the consultant selection and contracting processes. Per the MOA Section 7, the County agreed to act as the contracting agent to retain consultant services necessary to develop a GSP. Pending consideration of comments received at today's meeting, the County and City will finalize the scope of work and the County will publish the RFP to initiate the consultant selection and contracting processes. The consultant selection committee will continue to be involved during these processes to review and select a consultant.

Attachments:

1. Presentation
2. Draft Scope of Work for GSP Development



Scope of Work for Groundwater Sustainability Plan (GSP)

July 26, 2018

Groundwater Sustainability Commission
of the San Luis Obispo Valley Basin

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Prop 1 Sustainable Groundwater Planning (SGWP) Grant Award

- **05/07/2018** - County was conditionally awarded Prop 1 Grant Funding
- \$854,650 for SLO Basin GSP Development
- **Summer/2018** – Negotiate Grant Agreement
- **Fall/2018** - Execute Grant Agreement



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Groundwater Sustainability Plan Emergency Regulations

California Code of Regulations, Title 23. Waters, Division 2, Department of Water Resources, Chapter 1.5, Groundwater Management, Subchapter 2. Groundwater Sustainability Plans

- Article 1. Introductory Provisions
- Article 2. Definitions
- Article 3. Technical and Reporting Standards
- Article 4. Procedures
- **Article 5. Plan Contents**
- Article 6. Department Evaluation and Assessment
- Article 7. Annual Reports and Periodic Evaluation by the Agency
- Article 8. Interagency Agreements
- Article 9. Adjudicated Areas and Alternatives



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Article 5. Plan Contents

- | | |
|---|--|
| 1. Administrative Information | 3. Sustainable Management Criteria |
| § 354.4. General Information | § 354.24. Sustainability Goal |
| § 354.6. Agency Information | § 354.26. Undesirable Results |
| § 354.8. Description of Plan Area | § 354.28. Minimum Thresholds |
| § 354.10. Notice & Communication | § 354.30. Measurable Objectives |
| 2. Basin Setting | 4. Monitoring Networks |
| § 354.14. Hydrogeologic
Conceptual Model | § 354.34. Monitoring Network |
| § 354.16. Groundwater Conditions | § 354.36. Representative Monitoring |
| § 354.18. Water Budget | § 354.38. Assessment & Improvement |
| § 354.20. Management Areas | § 354.40. Reporting Monitoring Data to the
Department |
| | 5. Projects and Management Actions |
| | § 354.44. Projects & Management Actions |



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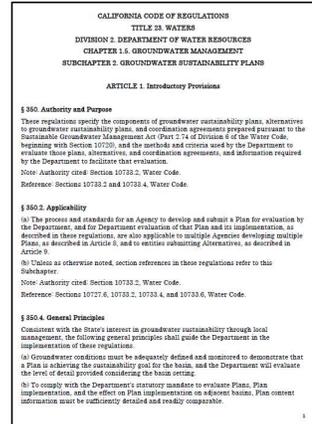
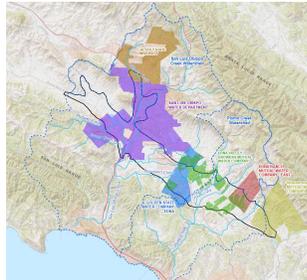
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Main Tasks for GSP Development

Task 1: Project Administration

Task 2: GSP Development & Adoption

Task 3: Coordination & Communication



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Task 1: Project Administration

Task 1.1: Project Meetings

- Kick-off public meeting
- Regular bi-monthly progress and coordination meetings with Commission
- Periodic meetings with DWR at key milestones

Task 1.2: Grant/Project Administration

Task 1.3: Project Submittal Review Process



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Task 2: GSP Development & Adoption

Task 2.1: Administrative Information

- General information
- Agency information
- Description of Plan Area
 - Existing water management programs and plans
 - Land use planning & water related ordinances
- Notice and communication development
 - Stakeholder outreach plan
 - Identification of beneficial users
 - Coordination tool



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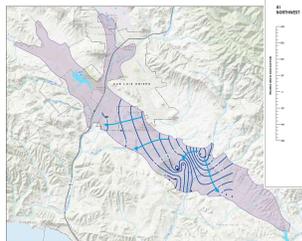
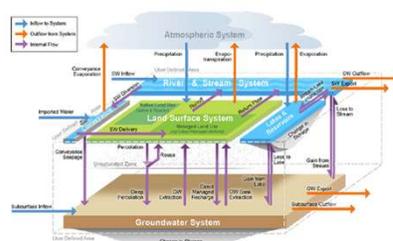
Task 2.2: Basin Setting

Develop Hydrogeologic Conceptual Model

Evaluate Groundwater Conditions

Develop Water Budget

Assess Multiple Management Areas



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Task 2.3: Sustainable Management Criteria

- Define Sustainability Goal
- Identify and Define Undesirable Results

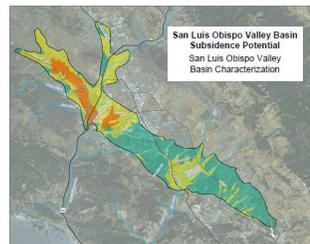
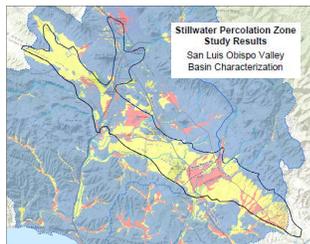
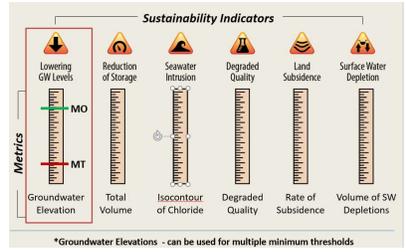


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Minimum Threshold and Measurable Objective Metrics

- Establish Minimum Thresholds
- Establish Measurable Objectives



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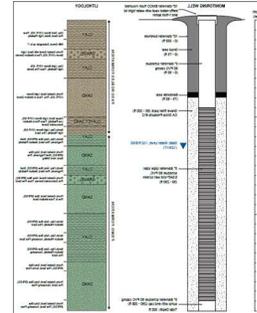
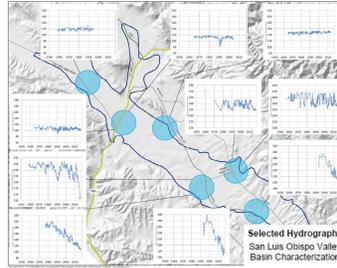
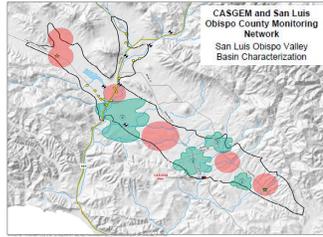
Task 2.4: Monitoring Network

Develop Monitoring Network

Develop Water Quality Monitoring Plan

Develop Surface Water Inflow/Outflow Monitoring Plan

Design Dedicated Monitoring Well



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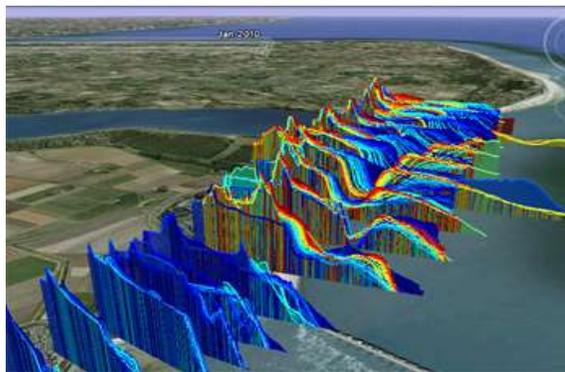
Task 2.5: Data Management System

Develop Data Management Plan

Develop Data Management System Tool

Compile and Review Data

Assess and Improve Monitoring Network

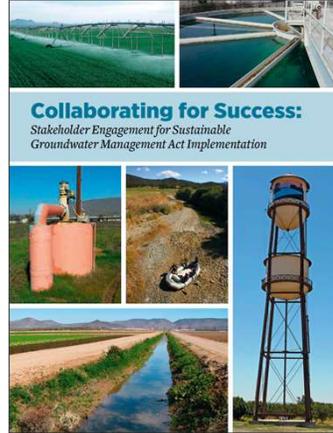


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Task 2.6: Projects and Management Actions

- Identification, evaluation and prioritization of potential projects
- Stakeholder outreach and interagency coordination
- Funding sources and expected benefits



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Task 2.7:GSP Development

- Interim Commission meetings after completion of each key draft GSP section
- Process for final GSP adoption by GSAs

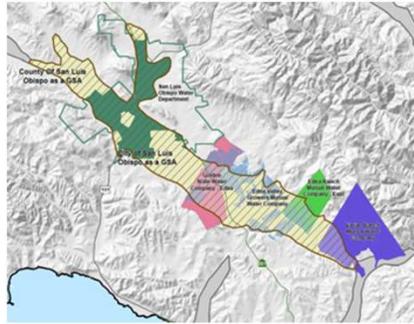


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Task 3: Coordination & Communication

- Interagency coordination and meeting preparations
- Assessment for inter-basin coordination if necessary



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Estimated Schedule for RFP and Contract



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SCOPE OF WORK (DRAFT)

Groundwater Sustainability Plan for the San Luis Obispo Valley Groundwater Basin

INTRODUCTION

On May 7, 2018, the County of San Luis Obispo was conditionally awarded the Proposition 1 Sustainable Groundwater Planning (SGWP) Grant by the California Department of Water Resources (DWR). Funding for this grant is from the Water Quality, Supply, and Infrastructure Improvement Act of 2014 and intended to assist with the development of a Groundwater Sustainability Plan (GSP) for the San Luis Obispo Valley Groundwater Basin (No. 3-9, "San Luis Obispo Basin") to comply with the Sustainable Groundwater Management Act (SGMA). The County of San Luis Obispo (County) in partnership with the City of San Luis Obispo with financial support from the above funding is soliciting detailed technical and cost proposals in this Request for Proposals (RFP) to develop and prepare a GSP for the San Luis Obispo Basin to be adopted by the January 31, 2022 statutory deadline

BACKGROUND

Basin

The San Luis Obispo Basin is situated in the San Luis and Edna Valleys in central to southwest San Luis Obispo County. A rise in bedrock south of the San Luis Obispo Airport has created two separate subsurface drainage systems in the basin (i.e., San Luis Valley and Edna Valley sub-areas). The basin is bounded on the northeast by the Santa Lucia Range, on the southwest by the San Luis Range, and on all other sides by contact with impermeable Miocene and Franciscan Group rocks and the Los Osos and Edna faults. The northwestern part of the valley is drained by San Luis Obispo, Prefumo, and Stenner Creeks. The southeastern part of the valley is drained by tributaries of Pismo and Davenport Creeks. Laguna Lake lies in the northwestern part of the valley within the City of San Luis Obispo. The basin overlies an area of approximately 12,700 acres (19.9 square miles) and is part of the Central Coast Watershed. The Edna Valley sub-area (approximately 4,700 acres) is entirely within unincorporated San Luis Obispo County, while the San Luis Valley sub-area (approximately 8,000 acres) includes both unincorporated County and the City of San Luis Obispo.

The San Luis Obispo Basin and its contributing watershed receive annual precipitation ranging between 19 and 23 inches. Groundwater is relatively shallow in this 50- to 100-foot thick unconfined aquifer. Groundwater in the basin is recharged primarily by infiltration of precipitation, applied irrigation water, and streamflow. A sizeable portion of the San Luis Obispo Valley includes urban developments with impervious surfaces that inhibit deeper percolation.

Governance

Two local agencies, the City of San Luis Obispo (City) and the County of San Luis Obispo (County), formed Groundwater Sustainability Agencies (GSAs), resulting in full coverage of the San Luis Obispo Valley Groundwater Basin (Basin). Subsequently, a Memorandum of Agreement (MOA) was adopted by the two local public agencies mentioned hereof primarily for the purpose of developing a single GSP for the San Luis Obispo Basin by January 31, 2022, in coordination with the Groundwater Sustainability Commission (Commission; an advisory committee to the GSAs) created by the MOA. The Commission consists of representatives of the GSAs and the Participating Parties, which include the Golden State Water Company (GSWC), Edna Ranch Mutual Water Company (ERMWC), Varian Ranch Mutual Water Company (VRMWC), and Edna Valley Growers Mutual Water Company (EVMWC). Per the MOA, the City and County will collaboratively participate in developing a GSP through, among other things, retaining the services of a consultant, coordinating with the Commission, and engaging Basin users and stakeholders. However, the County will act as the contracting agent to retain the services of a consultant.

SCOPE OVERVIEW

The consultant will prepare a GSP that complies with SGMA and the requirements of the Groundwater Sustainability Plan (GSP) Emergency Regulations (Regulations) approved by the State. DWR also published best management practices (BMPs) including the Groundwater Sustainability Plan (GSP) Annotated Outline, among others, for the sustainable management of groundwater, which are intended to provide clarification, guidance, and examples to assist developing essential elements of the GSP. The goals of the GSP will be to implement the Sustainable Groundwater Management Act based on science, sound water policies, and best practices, in a manner that achieves an equitable balance among all interests. They may be achieved through 1.) Augmentation - exploring all opportunities to augment surface flow and re-charge for basin-wide benefits, 2.) Conservation - seeking to improve agricultural, rural, industrial and municipal water conservation and management practices, and 3.) Innovation - identify appropriate technology and practices for efficient use of waters.

The following scope of work includes tasks related to the development of a GSP for the San Luis Obispo Basin. However, this is not necessarily a comprehensive nor an exhaustive list of tasks to be included in a GSP as mandated by SGMA and the Regulations. It is the responsibility of the consultant to prepare a GSP that will meet all the necessary requirements for approval by DWR. The County has recently in early 2018 completed a characterization study of the San Luis Obispo Basin, which will provide the technical foundation to support the development of this GSP.

This scope of work contains three tasks (with subtasks) as indicated below to complete the San Luis Obispo Basin GSP:

- Task 1: Project Administration
- Task 2: GSP Development & Adoption
- Task 3: Coordination & Communication

TASK 1: PROJECT ADMINISTRATION

Task 1.1: Project Meetings

Upon the County's Notice to Proceed, consultant will convene a kick-off public Commission meeting with the County and City Project Managers, subconsultants, Commission members, and other interested stakeholders. The meeting will lay out the scope, schedule, budget, and reporting responsibilities of each team member. Consultant will develop an internal roster and communication protocol, as well as an initial schedule of internal coordination meetings.

Regular coordination meetings/calls will be held among the MOA parties to communicate progress, coordinate the work effort, and plan meetings. Consultant will convene approximately 24 meetings (estimated bi-monthly) over the course of the 4-year (48 month) schedule for the GSP development and adoption. Consultant will develop presentation materials and/or agendas and summaries of key issues and decisions or minutes for each meeting. The content of the GSP materials will be presented to the MOA parties for input and feedback upon completion of each or several draft sections combined of the GSP. These presentations may be included in the scheduled bi-monthly meetings.

The County and City Groundwater Sustainability Agencies (GSAs) will invite DWR to attend periodic project informational briefings at key project milestones to discuss project status and plans for GSP development and implementation. These briefings are assumed to occur annually.

Deliverables:

- Proposed Work Plan, Budget, and Schedule of Meeting Dates
- Periodic project briefings agendas and summaries
- Agendas and presentation materials

Task 1.2: Grant/ Project Administration

This task will consist of budgeting, management, agency coordination, grant administration, project reporting, and overall management of GSP consultant(s) and GSP development phase. The County will provide grant administration including negotiation and execution of the Grant Agreement, compliance with Grant Agreement requirements, ongoing communication with DWR/ project partners/ consultants, and development and submission of grant documents/progress reports/invoices. The County, with consultant and City support, will prepare a draft Project Completion Report and submit to DWR for DWR's project manager's comment and review no later than 90 days after work completion. The County will prepare final Project Completion Report addressing DWR's comments.

Deliverables

- Quarterly Progress Reports and Invoices to DWR
- Grant/ Project Completion Report

Task 1.3: Project Submittal Review Process

All project submittals will be technically reviewed by the County for quality control and accuracy prior to release to other coordinating agencies and to DWR. Other agencies will be provided an opportunity to review and comment on project deliverables, including draft sections/memoranda. This subtask will track and report the status of these reviews (e.g. QA/QC Plan).

Deliverables

- Spreadsheet for tracking QA/QC reviews

TASK 2: GSP DEVELOPMENT & ADOPTION

Task 2.1: Administrative Information

Compile and/or develop GSP documentation and/or tools necessary to adequately address the Regulations Article 5, Subarticle 1 Administrative Information (including § 354.2, 354.4, 354.6, 354.8, 354.10), which describes administrative and other general information about the GSAs and the area covered by the GSP. This task includes developing the following:

- **General Information** per the Regulations, including developing an executive summary of the GSP and groundwater basin conditions, and list of references and technical studies used.
- **Agency Information** per the Regulations, including describing the GSAs structure and authorities.
- **Description of Plan Area** per the Regulations, including maps and descriptions that overview the GSP area, existing water resource monitoring and management programs and relationships to GSP, existing jurisdictions, land use/ general plans and relationships to GSP. This will also include discussions on how future changes to these programs and/or land uses over time relate to the achievement of groundwater sustainability envisioned in the GSP as well as how GSP implementation may affect or relate to the water supply assumptions of land use/general plans. This task will also include describing the County's existing monitoring program, however subsequent subtasks will include analysis of spatial adequacy in three dimensions and data gap identification.
- **Notice and Communication** per the Regulations, including development of and identification of a list of beneficial uses and users in the basin, list of public meetings associated with GSP development and adoption, etc. This task also involves developing a single, basin-wide Stakeholder Communication and Engagement Plan that will provide a comprehensive, well-planned approach to addressing stakeholder communications and engagement during GSP planning and implementation. This will include identifying governance structures, how parties will be kept informed and provided opportunities to review and comments, etc. Depending on partner agencies and stakeholder input, this will involve development of a Coordination Tool to serve as single repository to collect, store and organize contact information, send notices to stakeholders, document meeting agendas and summaries, etc.
- Conduct an appropriate number of public meetings/workshops

Deliverables

- Draft GSP Section(s) and/or appropriate documentation
- Executive Summary of GSP
- List of references, technical studies, and reference maps
- Stakeholder Communication and Engagement Plan and/or appropriate tool(s)
- Agendas and presentation materials

Task 2.2: Basin Setting

Compile and/or develop GSP documentation and/or tools necessary to adequately address the Regulations Article 5, Subarticle 2 Basin Setting (including § 354.12, 354.14, 354.16, 354.18, 354.20), which describes the basin's physical setting, characteristics and current conditions. It's important to note that this task will build on the basin characterization study efforts conducted under the Proposition 1, Counties with Stressed Basins grant, to compile previously collected data to define the characteristics of the groundwater basin. (Characterization Study Report may be found at the following link: <https://www.slocountywater.org/site/Water%20Resources/SGMA/slovalley/pdf/SLO%20Basin%20Characterization%20Report.pdf>) This task includes developing the following:

- **Hydrogeologic Conceptual Model (HCM)** per the Regulations, including development of an HCM to provide a foundation for establishing the interrelationship of hydrologic and water management factors including setting Minimum Thresholds and Management Objectives, construction of the Water Budget, providing data for numerical groundwater modeling, exploring future conditions, and understanding surface water-groundwater interactions. This will include describing and developing required documentation of the physical and geologic setting of the basin. This will also include conducting studies and/or developing tools to understand and quantify groundwater/surface water interaction.
- **Groundwater Model Development Review and Modeling** For this GSP proposal, the consultant will review the Counties with Stressed Basins characterization study and combine it with the other basin information developed under Subtask on Basin Setting, to determine what type or form of flow model will be most appropriate/adequate to meet the requirements of the GSP. If it is determined a numerical groundwater model is required to meet these expectations, the GSAs will need to plan for and fund this work on a schedule compatible with the development and implementation of the GSP. This work will need to be proposed as an optional subtask in this RFP in detail with the various potential modeling options.
- **Groundwater Conditions** per the Regulations, including describing the current and historical groundwater conditions of the basin and trends relating to the Undesirable Results. The HCM will serve as the foundation for the description of groundwater conditions in the basin. This effort will document data collected, methodologies applied, groundwater elevations, calculated change in storage, groundwater quality, interconnected surface water systems, and groundwater dependent ecosystems.

- **Water Budget** per the Regulations, that will result in developing a basin-wide water budget to quantify surface water entering and leaving a basin, groundwater inflows and outflows, storage change, quantification of overdraft, and sustainable yield for the basin. Historical water budget information will be used to evaluate availability or reliability of past surface water supply deliveries and aquifer response to water supply and demand trends. Work under this task will include a quantitative evaluation of the availability or reliability of historical surface water supply, and a description of how historical conditions concerning hydrology, water demand, and surface water supply availability or reliability have impacted the basin. A projected water budget will be developed to estimate future baseline conditions of supply, demand and aquifer response to GSP implementation.
- **Management Areas** per the Regulations, pending further study and discussion, the GSAs may decide to delineate management areas to improve management and/or GSP implementation. Basis for such delineations, if necessary, would be supported by work completed under previous tasks, such as the physical setting and characteristics of the basin, the HCM, and groundwater conditions. If pursued, work will include a description and the reason for each management area, suggested minimum thresholds and objectives related to the sustainable yield for each management area, level of monitoring and analysis, and an explanation of how the management area will not cause Undesirable Results.
- Identify data gaps in order to define the level of uncertainty in the Basin Setting understanding and to inform monitoring program improvements.
- Conduct an appropriate number of public meetings/workshops related to the basin setting including presentation materials and handouts.

Deliverables

- Draft GSP Section(s) and/or appropriate documentation
- Physical Setting and Characteristics memorandum, or appropriate documentation
- Hydrogeologic Conceptual Model memorandum, or appropriate documentation
- Data Gaps and Uncertainty memorandum, or appropriate documentation
- Groundwater Conditions memorandum, or appropriate documentation
- *If management areas are pursued/necessary:* Management Areas Memorandum, or appropriate documentation in meeting all the Regulations for each management area
- Historic and Projected Water Budget memorandum, or appropriate documentation
- Groundwater Model Development Review memorandum, or appropriate documentation
- A numerical groundwater model and associated documentation (optional task)
- Agendas and presentation materials

Task 2.3: Sustainable Management Criteria

Compile and/or develop GSP documentation and/or tools necessary to adequately address the Regulations Article 5, Subarticle 3 Sustainable Management Criteria (including § 354.22, 354.24, 354.26, 354.28, 354.30), which describes criteria by which the GSA defines conditions in its GSP that constitute sustainable groundwater management for the basin. This task includes developing the following:

- **Sustainability Goal** per the Regulations, including establishment of a basin-wide sustainability goal to culminate in the absence of Undesirable Results within 20 years. This task includes evaluation of the basin setting as the basis for the goal.
- **Undesirable Results** per the Regulations, including a description of the processes and criteria used to characterize Undesirable Results in the Basin based on the groundwater conditions analyzed in prior tasks. Work under this task includes meetings and other forms of communication to outline and agree on a process by which Undesirable Results are identified and defined, describing the Undesirable Results and their causes, describing the criteria used to define Undesirable Results and any potential effects Undesirable Results would have on beneficial uses and users of groundwater.
- **Minimum Thresholds** per the Regulations, including develop minimum thresholds criteria that must not be violated under the most severe predicted conditions (out to year 2042). Minimum thresholds will be established in accordance with the Undesirable Results and sustainability indicators. This task will include development of a description of the relationship between minimum thresholds and each sustainability indicator, and how the selected minimum threshold may affect beneficial uses and users of groundwater. This task will also include reviewing sustainability indicators, outlining sustainability goals, setting minimum thresholds, description of undesirable results as compared to current conditions, and relationship to measurable objectives and interim milestones over a five-year period.
- **Measurable Objectives** per the Regulations, including identify and describe measurable objectives to obtain sustainability goals within a 20-year time frame, which are specific quantifiable goals for maintaining and/or improving the specified groundwater conditions and sustainability indicators. This effort will include descriptions of the establishment of measurable objectives, a reasonable margin of safety for each measurable objective, a description of a reasonable path to achieve and maintain the sustainability goal.
- Conduct appropriate number of public meetings/workshops for the development of sustainable management criteria. The development of sustainable management criteria will be an iterative process through discussion of sustainability goals, definition of undesirable results, and identification of minimum thresholds and measurable objectives. The consultant (in coordination with County and City staff) will develop preliminary minimum thresholds and measurable objectives for each of the sustainability indicators. The GSAs, Commission and stakeholders will have an opportunity to comment/provide input/review the processes, results and draft recommendations. Sustainability criteria may need to be adjusted to reach agreement on the most appropriate and accepted thresholds. It will be absolutely critical to get concurrence from key stakeholders on the final criteria.

Deliverables

- Draft GSP Section(s) and/or appropriate documentation
- Sustainability Goals memorandum, or appropriate documentation
- Appropriate documentation of processes and criteria to define Undesirable Results
- Minimum Thresholds and Sustainability Indicators memorandum, or appropriate documentation

- Measurable Objectives memorandum, or appropriate documentation
- Agendas and Presentation materials

Task 2.4: Monitoring Network

Compile and/or develop GSP documentation and/or tools necessary to adequately address the Regulations Article 5, Subarticle 4 Monitoring Network (including § 354.32, 354.34, 354.36, 354.38, 354.40), which describes the monitoring network that shall be developed for the basin. This task will also include consideration of the Regulations Article 3 Technical and Reporting Standards. This task includes developing the following:

- **Monitoring Network** per the Regulations, including providing a written description of the existing monitoring network, the objective of an expanded monitoring network, a description of monitoring protocols, and a description of representative monitoring. Prepare a Network Monitoring and Measurement Plan or appropriate documentation for the Basin to address elements such as: Monitoring protocols including technical standards and data collection methods; Sample analytes and water quality parameters; Subsidence measurement protocols if required; List of analytical methods; Location, rationale, and selection of representative monitoring sites, network density, and monitoring frequency; Network improvement plan, including assessment of the monitoring network for data gaps; Stakeholder outreach as needed; Description of required annual reporting to DWR as required by the Regulations and coordination with the county-wide data management system.
- **Water Quality Monitoring Plan** or appropriate documentation. To some extent, the Counties with Stressed Basin grant project is identifying water quality monitoring locations. The findings from that work will be incorporated into and expanded upon as needed in the water quality sampling plan prepared under this task. Prepare a water quality sampling plan that describes the monitoring wells to be sampled, the sampling methods and protocols, the plans for uploading the data to the Water Board's Groundwater Ambient Monitoring and Assessment (GAMA) Program or other appropriate site(s), and the constituents to be collected, such as general minerals, drinking water metals, and others as necessary to be determined by the GSAs and consultant with further discussions. Upon review and acceptance of the water quality sampling plan, the GSAs will define roles/responsibilities for implementation of the plan to support development and implementation of the GSP. For the purposes of this proposal it is assumed that water quality samples will be collected from 10 monitoring locations within the Basin.
- **Surface Water Inflow/Outflow Monitoring Plan** or appropriate documentation. Surface water outflow can be estimated by monitoring at locations along the water course. A surface water monitoring plan will be prepared that describes the water sources and locations to be monitored, the monitoring methods and protocols, and how the measurements will be used to determine total surface water entering and leaving the basin by water source type in addition to the characterizing the interactions between surface water and groundwater. Upon review and acceptance of the surface water monitoring plan, the GSAs will consider necessary actions and roles to implement the plan to support development and implementation of the GSP. Funding

for the labor and associated other costs to implement this plan is not included in this proposal. However, the associated costs for the monitoring plan will be provided as part of the GSP.

- **Representative Monitoring** per the Regulations, including consideration of designating a subset of monitoring sites as representative of conditions in the basin based on analysis of existing monitoring network, monitoring needs, and basin conditions.
- **Assessment and Improvement of Monitoring Network** per the Regulations.
- **Reporting Monitoring Data to the DWR** per the Regulations.
- **Design and on-site oversight of approximately one dedicated monitoring well or more if found to be necessary.** The monitoring wells should be developed in accordance with state (CASGEM and SGMA) and local agency requirements. The work associated with this new monitoring well design and on-site oversight includes the following activities:
 - A. Confirm preferred monitoring well location;
 - B. Prepare appropriate CEQA documentation;
 - C. Obtain necessary well construction permits;
 - D. To the extent necessary to build on similar efforts conducted under the Counties with Stressed Basins grant project, develop plans and specifications to construct and develop the monitoring wells in accordance with California Well Standards Bulletin 74-90 and 74-81 and County well ordinances;
 - E. Conduct necessary processes under required County purchasing/ bidding policies;
 - F. Assign an on-site geologist to supervise collection and classification of samples of the cuttings in accordance with the Unified Soil Classification System per ASTM D2488;
 - G. Conduct geophysical logging (electrical resistivity) and interpret the logs to support well design. The final design will be completed by a California-licensed professional geologist;
 - H. Install monitoring well per the final design with an onsite geologist to supervise construction of wells;
 - I. Complete a Water Well Drillers Report and submit copies to DWR and the local well permitting agencies;
 - J. Survey the well location and elevation using a California-licensed land surveyor;
 - K. To the extent feasible, install electronic monitoring equipment (transducer or its equivalent) in new monitoring wells, if the site(s) are feasible to improve data monitoring of both water level/ quality;
 - L. Incorporate new dedicated monitoring wells will be incorporated into the California Statewide Groundwater Elevation Monitoring (CASGEM) data system.

This work will be considered as an optional subtask and will not include the construction of the monitoring well. However, the cost of monitoring well design and construction will be estimated per well basis. The construction of the monitoring well will be performed by a well drilling contractor under a separate contract.

- Potential data needs and gap will be addressed through the following work efforts: Gather and review existing reports and review findings from the Counties with Stressed Basins grant work. Develop a preliminary list of potential data needed to complete the GSP and complete a data gap analysis summary (this work occurs in other subtasks); Collect additional data to address

high priority data gaps, including groundwater well monitoring, water quality sampling, and surface water monitoring.

- Conduct appropriate number of public meetings/workshops regarding monitoring network

Deliverables

- Draft GSP Section(s) and/or appropriate documentation
- CEQA documentation for new well(s)
- Monitoring well design memorandum and Monitoring Well Completion Report (optional task)
- Monitoring Network Program technical memorandum or appropriate documentation including Water Monitoring Plan, Water Quality Sampling Plan, and Surface Water Inflow/ Outflow Monitoring Plan
- Monitoring Network Update and data gap memorandum, or appropriate documentation
- Agendas and presentation materials

Task 2.5: Data Management System

Develop a county-wide Data Management System (DMS) necessary to adequately address the Regulations (including § 352.6), which requires GSAs to develop and maintain a DMS that is capable of storing and reporting information relevant to the development and implementation of the GSP and monitoring of the basin. This task will also include consideration of the Regulations Article 5, Subarticle 4 Monitoring Network, and constructed in a way that is useful to the other subtasks of this work plan.

The DMS design and data framework will be spatially scalable and can be expanded to include information from other basins, GSAs, districts, or agencies, and information contained within the DMS can be exported and incorporated into other data management frameworks. The DMS will be modular, allowing for future expansion and evolution. The DMS will be developed in stages as described below.

This task includes developing the following:

- Development of a **Data Management Plan**, starting with a needs assessment to determine the goals of the DMS and to provide guidance on the central tasks and approach to efficiently produce an effective DMS. Following completion of the needs assessment, the County, in coordination with the other basins and GSAs working with the County, will develop the Data Management Plan. The plan will serve as guidance for the collection and management of groundwater and surface water information required for GSP development and will be used as part of continued reporting during the GSP implementation phase (2022+).
- Develop **DMS Tool**, including development of a web-based DMS that will function as a data storage, analysis, visualization, and reporting tool for hydrogeologic and hydrologic information within the San Luis Obispo Valley Basin. The DMS Tool will store and display information from previous, ongoing, and future groundwater studies and monitoring programs. It will also support the GSP annual reporting requirements. This element will include initial DMS maintenance and operation activities for the duration of the grant. The DMS system will be

beta-tested by both the programmers and water resources professionals prior to release of the DMS to the GSAs for further testing.

- **Data Compilation and Review**, including data input effort performed in close coordination with the GSAs and will consist of formatting, reviewing, and importing data into the DMS. The overall goal of this task is to populate the database with high quality data for use in development of the HCM, groundwater conditions, and water budget portions of the GSP and to provide a foundation for management of data needed for future GSP development efforts.
- **Basin Integration and Coordination**, including provide support to the management in other basins partnering with the County that might want to use the DMS to meet their SGMA -DMS requirements in San Luis Obispo County. While the DMS will be used in the San Luis Obispo Valley Basin and the Santa Maria GWB Fringe Areas, it will be available for use by other basins in the County, including the Paso Robles Basin and the Atascadero Basin.

Deliverables

- A Data Management Plan, or appropriate documentation
- A web-based DMS populated with collected and imported data

Task 2.6: Projects and Management Actions

Compile and/or develop GSP documentation and/or tools necessary to adequately address the Regulations Article 5, Subarticle 5 Projects and Management Actions (including § 354.42, 354.44), which describes criteria for projects and management actions to be included in the GSP to meet the sustainability goals for the basin. This task includes developing the following:

- **Projects and Management Actions** per the Regulations, including determining and evaluating future projects and management actions as well as developing a process to identify, evaluate and prioritize possible projects and management actions for the basin that will help to achieve the basin-wide sustainability goal. This process will involve interagency coordination through the GSAs and the Groundwater Sustainability Commission, as well as public involvement to vet feasibility of various potential actions. As required by the Regulations, the GSP should include a preliminary description of future implementation needs for the various proposed projects and management actions (e.g. permitting process, schedule for initiation and completion, potential funding sources, expected benefits, legal authority, etc.)
- Conduct appropriate number of public meetings/workshops to solicit feedback and comments on potential future projects

Deliverables

- Draft GSP Section(s) and/or appropriate documentation
- Projects and Management Actions memorandum, or appropriate documentation
- Agendas and presentation materials

Task 2.7: GSP Development

Compile material to develop the GSP sections from previous subtasks. During the development of the GSP sections, interim meetings will be scheduled with the GSAs, Groundwater Sustainability Commission, and/or DWR to review and receive input. A public meeting will be held upon completion and publication of the Draft GSP to receive and review comments. The Draft GSP will be edited as needed and the Final GSP recommendation process will be initiated through the Groundwater Sustainability Commission, and adoption process through each GSA's decision-making body. Once the adoption process occurs, the GSAs will submit the Final GSP to DWR.

Deliverables

- Copy of Notice of Intent to develop a GSP
- Draft and Final GSP
- Copy of Public Notice
- Resolutions of GSP Adoption by each GSA
- Agenda and presentation materials

TASK 3: COORDINATION & COMMUNICATION

Throughout the GSP development the County and City will continue to coordinate amongst themselves and other water management entities (Edna Valley Growers Mutual Water Company, Edna Ranch Mutual Water Company, Golden State Water Company, and Varian Ranch Mutual Water Company) and will expand communication with stakeholders and interested parties, and adjacent basins. This task involves efforts related to communication/ engagement and intra-basin and inter-basin coordination, as well as with stakeholders.

This task includes preparing for and attending the GSA coordinating meetings, developing agendas/ presentation materials/meeting summaries, etc. For the purposes of this work plan, these GSA coordinating meetings are assumed to occur approximately quarterly (approximately a total of 17 quarterly meetings across the 4-year (48 month) schedule including the first kick-off).

Assess whether or not inter-basin coordination is necessary given the relationship to adjacent basins. Inter-basin agreements may be included in the GSP to support a finding that implementation of the GSP will not adversely affect an adjacent basin's ability to implement its GSP or impede the ability to achieve its sustainability goal. The various GSAs will meet to discuss whether development of coordinating agreements and formal documents may be needed to assure each basin's ability to implement its GSP. If needed, the County will initiate meetings to discuss coordination with adjacent basins. For the purposes of this work plan, meetings between the County/City GSAs, and representatives of these adjacent basins are assumed to occur approximately annually across the 4-year (48 month) GSP development schedule (approximately a total of 8 or 4 with each adjacent basin).

The Regulations, Subarticle 1, § 354.10, Notice and Communication, the GSP shall include a summary of information relating to notification and communication by the County and City with other agencies and

interested parties. This task is to comply with these requirements and the nature of consultation with those parties. Using the Communications Tool created under prior subtasks, County staff will compile and publish summary reports on the basin website outlining when a meeting took place, a meeting summary and attendance sheet.

Deliverables

- GSA meeting agendas/summaries of key issues/decisions
- Inter-basin meeting agendas/summaries of key issues/decisions
- List of public meetings

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