REQUEST FOR PROPOSALS

To Provide Services for the Development of the Corning Subbasin Groundwater Sustainability Plan

RFP Issue Date: August 14, 2019

RFP Submission Deadline: **September 17, 2019, 4:00 PM**

Issued by:

Corning Sub-basin GSA &

Tehama County Flood Control & Water Conservation District GSA

Mailing Address for RFP:

P.O. Box 351

Willows, CA 95988

1. Introduction

The Corning Sub-basin Groundwater Sustainability Agency (CSGSA) and Tehama County Flood Control and Water Conservation District (District) are seeking a firm(s) to complete technical work and facilitation services to support the development and completion of the Corning Subbasin (5-021.51) Groundwater Sustainability Plan (GSP). Glenn County, a member of the CSGSA, was awarded a Proposition 1 Planning Grant for GSP development in the Corning Subbasin. The technical work will build off previous efforts including local Agricultural Water Management Plans, past studies by participating agencies (Water Management Plans, etc.), and work supported by Proposition 1 Counties with Stressed Basins grants in Glenn County. Some of these work products can be found on agency websites or be requested through normal procedures.

The Corning Subbasin GSAs intend to award one or more contracts to a firm(s) that meet our qualification criteria and has successfully performed services on similar projects in the past. Firms are encouraged to develop partnerships, if desired, to submit complete proposals. The successful firm(s) will be required to enter into a contract with Glenn County for services requested in this RFP. A sample contact is included as Attachment A.

Submittals must be received by **September 17, 2019 at 4:00 PM** to be considered for this opportunity.

All Potential Respondents should note that it is their responsibility to:

- Read carefully all of the contents of this entire RFP.
- Ask for clarification in writing before submission due dates.
- Address all requirements and follow all procedures of this RFP.
- Immediately inform the RFP Contact Person of any problems with this RFP solicitation.
- Submit all responses by the required dates and times.

2. Background

The CSGSA and the District are exclusive Groundwater Sustainability Agencies in the Corning Subbasin. The Agencies cover the entirety of the subbasin. Glenn County was awarded a Proposition 1 Planning grant for GSP development on behalf of the agencies in the Corning Subbasin with the intent to work together to develop and submit a single GSP for the Corning Subbasin.

3. Project Description

The scope of this RFP is to build on previous efforts and conduct all tasks necessary to complete and submit a compliant GSP. Respondents are expected to be familiar with the Sustainable Groundwater Management Act Laws and Regulations and the Department of Water Resources guidance documents.

The Proposition 1 Planning Grant application workplan is included as Attachment B.

4. Scope of Services

Respondents are expected to have a complete comprehension of the GSP Regulations. The Draft Work Plan is expected to include all work necessary to meet all the requirements set forth in the Regulations which can be found on DWR's website at:

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Sustainable-Groundwater-Management/Groundwater-Sustainability-Plans/Files/GSP/Final-GSP-Emergency-Regulations.pdf

More details for the tasks listed above can be found in Attachment B.

Interim deliverables for tasks will be required. The final deliverable will be a complete GSP for the Corning Subbasin. Respondents should expect the proposed schedule to allow reasonable time for review and approval of GSP components and the draft GSP including the public review process. All major tasks should be completed prior to November 1, 2021. Submittal to DWR will be complete by January 31, 2022. Additional schedule should be included to respond to DWR comments in writing.

Additionally, it may be required to assist in the development of separate grant applications as it relates to GSP development and implementation.

Other tasks may include evaluation of various GSA funding mechanisms and options for groundwater allocation scenarios.

Task 1: Project Management

This task includes general administrative tasks including interaction with GSA staff, brief work summaries for inclusion in grant reports and invoicing, and assisting GSA staff with preparation of the draft and final grant reports.

Task 2: Stakeholder Outreach and Coordination

This task includes facilitation of intra-basin, inter-basin, and stakeholder meetings. Technical and facilitation staff will be prepared to present technical components and provide general order to meetings. It is expected that the firm will work directly with technical committees, GSA staff, or other subgroups as directed, and GSA Boards as needed. For technical components, monthly meetings may be required at times, but generally quarterly meetings may be sufficient. It is expected that facilitated public workshops will take place throughout the planning process and public hearing processes required for Plan adoption. Facilitation support will also include any updates to existing Stakeholder Communication and Engagement Plan, MOUs or other governance documents.

Task 3: Data Collection and Modeling

Prepare a GSP that meets SGMA requirements and the DWR regulations and is based on work and findings as described in the subtasks below.

Task 3.1 Data Collection and Analysis to Support GSP Development

Compile, evaluate, and analyze data necessary for GSP development. Identify data collection and analysis needs and develop a plan for obtaining that data.

Task 3.2 Integrated Hydrologic Modeling

Build upon prior efforts to evaluate and select appropriate Integrated Hydrologic Model. Refine selected model based on local information such as water budget and land use data. Develop model scenarios, complete model runs, and evaluate model results to support evaluation of

potential projects and management actions or other analysis necessary for GSP development and implementation.

Task 4: GSP Preparation

Prepare a GSP that meets SGMA requirements and the DWR regulations and is based on work and findings as described in the subtasks below.

Task 4.1 Monitoring Protocols

Identify and compile existing monitoring protocols, evaluate monitoring protocols for consistency with GSP regulations, and document final monitoring protocols for GSP data.

Task 4.2 Data and Reporting Standards

Using existing, publicly available data, develop the data in the Tehama County portion of the subbasin to the same technical level that was completed previously in the Glenn County portion of the subbasin. Update and refine data as appropriate throughout the subbasin. Implement the data gap action plans as appropriate. Incorporate additional, high priority data gaps as new, relevant information becomes available from DWR and others.

Task 4.3 Data Management System (DMS)

Develop a preliminary DMS for the Tehama County portion of the subbasin. Evaluate, develop, and implement a Final DMS for the entire subbasin, including system installation, setting permissions, training, loading data, and system testing. Evaluation of DMS options will build upon previous efforts and will consider a range of available options, including proprietary systems, open-source systems, and custom applications.

Task 4.4 GSP Document Preparation and Adoption

Prepare and assemble the draft GSP for public review of each section prior to compilation to ensure that all GSP content required by SGMA regulations and DWR requirements are included. Work with the GSAs to advertise the availability of the draft GSP for review and comment. Work with the GSAs to develop responses to and/or incorporate comments when appropriate.

Task 4.5 GSP Administrative Information

This task will include developing complete GSP sections to comply with submittal requirements for the GSP Administrative Information including, but not limited to General Information, Agency Information, Description of Plan Area, Notice and Communication.

Task 4.6 Basin Setting

Compile, develop, and prepare the Hydrogeologic Conceptual Model (HCM) section of the GSP. Refine the preliminary HCM as necessary and develop the basin-wide HCM. Use existing, available information, with additional data collection as appropriate, compile, prepare, and develop the Current and Historical Groundwater Conditions section of the GSP. Compile, develop, and prepare the Water Budget Information and Management Areas sections of the GSP. Coordinate, at the direction of GSA staff, with neighboring subbasins to ensure consistency in modeling parameters across basin boundaries.

Task 4.7 Sustainable Management Criteria

This task will include work conducted for the development of Sustainability Goals, Undesirable Results, Minimum Thresholds, and Measurable Objectives. It is expected there will be significant facilitated public outreach during this task.

Task 4.8 Monitoring Network

Compile, develop, and prepare the Monitoring Network and Representative Monitoring sections of the GSP. Designate representative monitoring sites, evaluate adequacy of groundwater levels as proxy for other sustainability indicators, and describe adequacy of sites to represent general conditions in area. Compile, develop, and prepare the Assessment and Improvement of Monitoring Network section of the GSP. Evaluate and update the initial data gap action plan. Evaluate uncertainties and potential effects on GSP success. Modify frequency and density of monitoring sites, as needed. Develop and describe the process to be used for five-year review of the monitoring network. Compile, develop, and prepare the Reporting Monitoring Data section of the GSP. Review DWR forms for reporting of monitoring data. Format monitoring data and/or develop reports aligned with DWR requirements.

Task 4.9 Projects and Management Actions

Develop Projects and Management Actions (PMAs) section of the GSP to achieve Sustainability Goals for the Basin, describe the implementation feasibility, and the method by which each will be evaluated for effectiveness. PMAs will be evaluated using the Integrated Hydrologic Model to evaluate project impacts on groundwater conditions and related sustainability indicators to support quantification of project benefits.

Task 5: Funding Mechanisms (Optional Task)

It may become necessary to consider funding mechanisms for each agency. Examples of potential considerations include well head fees, groundwater extraction fees, and water allocations and credits. The firm should be prepared to provide guidance in the evaluation of mechanisms to fund SGMA activities including Projects and Management Actions. They should also be prepared to provide guidance on various groundwater allocation scenarios.

5. Desired Qualifications

The successful firm must demonstrate experience in the following:

- Knowledge and understanding of SGMA legislation and GSP regulations
- Groundwater management planning
- Public outreach and coordination
- Technical components of SGMA planning including hydrogeologic modeling and analysis
- Data management
- Funding mechanisms for SGMA implementation
- Groundwater allocation methods
- Coordination with neighboring entities to ensure seamless planning and implementation processes

6. Format for Proposals

Responses to the RFP must be made according to the requirements set forth in this section, both for content and for sequence. Failure to adhere to these instructions, or inclusions of conditions, limitations, or misrepresentations in a response **may be cause for rejection of the submittal.** Proposals must be submitted on 8-1/2" X 11" sheets (fold outs are acceptable for charts, etc.). Type size must be large enough to be easily legible, but shall not be smaller than 11 point. Submissions must be received no later than **September 17, 2019, 4:00 PM**.

Mandatory Content and Sequence of Submittal:

a) Cover Letter shall be a maximum two (2) page Cover Letter and introduction, and shall include the name and address of the respondent submitting the proposal, together with the name, address and telephone number of the contact person who will be authorized to make representations for the respondent, the respondent's federal tax ID number and a list of subcontractors/subconsultants, if any. The cover letter shall include a statement that the proposal is valid for 90 days after receipt.

b) Table of Contents shall be a detailed Table of Contents and shall include an outline of submittal, identified by sequential page number and by section reference number and section title as described therein.

c) Firm Capabilities and Experience Summary shall be a maximum of eleven (11) pages in length and shall describe the respondent's experience in development of GSP components and a description of the Respondent's resources for successfully developing and completing this project.

   i. Background and Experience. In this section, describe your firm's background, its organizational structure, identify decision-making roles, and why this is advantageous to the project. Describe the roles and background of the project manager and key team members. Please provide a narrative history of the firm and its experience in providing support to GSAs in developing components of GSPs and other SGMA related activities.

      Experience and focus in the public sector is of vital importance. Describe related past projects (please limit to 3 projects) completed along with a discussion comparing similarities with this proposed project.

      This section shall also contain a list of references for each sample project wherein similar services were performed. At a minimum, the following information must be included for each client reference:

      - Client name, address, direct project manager name, telephone number, fax number and email address.
      - Detailed description of services provided similar to the services outlined in the Draft Scope of Work.

   ii. Key Personnel. Provide resumes describing the background and statement of qualifications for key personnel your firm would use on this project, including any

subcontractors that are considered as key personnel on this project. Resumes are not included in the eleven (11) page maximum for this section and may be included as an Attachment if desired.

iii. Statement of Qualifications for any subcontractors. If subcontractors/subconsultants are to be used, the prospective contractor must include in the proposal a description of the work to be done by each subcontractor/subconsultant. All subcontracts must be approved by the GSAs and no work shall be subcontracted without prior written approval. It is expected that the discussion of subcontractors/subconsultants will also include experience and references to similar types of work. For each subcontractor/subconsultant, an additional one (1) page will be added to the maximum pages allowed. For example, two subconsultants would increase the maximum page number for this section to thirteen (13) pages.

iv. Scheduling. Delineate the project scheduling process your firm uses. Use some or all of the projects in the Experience Summary section, as well as other projects (if necessary), as specific examples, which demonstrate your ability to deliver your work on time.

d) Cost shall detail the cost portion of the proposal. Respondent shall provide pricing based on a firm price that identifies a breakout of the pricing for each Task, Subtask, and Deliverable of the proposed project. Prices quoted shall be valid for at least ninety (90) days following the proposal submission deadline and if a contract is entered into as a result of this RFP, shall become fixed for the term of the contract.

An hourly rate should be provided showing the anticipated total number of hours per task/subtask and should be included along with a not-to-exceed price for the project. A fee schedule listing each member, along with their classification and their normal billing rates should be included with hourly rate quotes.

e) Draft Scope of Work and Schedule in which the proposing respondents are requested to describe the work they will perform and their approach to completing this project. Should there be any tasks that are expected to be performed by the GSAs, these should also be clearly described as GSA tasks in the Draft Scope of Work. The proposed billing rate for all reimbursable expenses should be included in the Draft Scope of Work. The proposal shall also include a schedule for all tasks/subtasks with the timeline for completing all required tasks by November 1, 2021.

7. Submittal Instructions

Proposals shall be submitted in the following manner:

- Submission shall contain one (1) signed, unbound original and three (3) hard copies on 8-1/2" X 11" paper (fold outs are acceptable for charts, etc.).
- One (1) electronic copy shall be provided in CD or thumb drive format.
- Submittals shall be delivered in a sealed box or envelope clearly marked with the Respondent's name and the description "Corning Subbasin Groundwater Sustainability Plan"

- Submittals shall be delivered to:
    - Glenn County Department of Agriculture
      ATTN: Lisa Hunter
      P.O. Box 351
      Willows, CA 95988

    - Or hand delivered to:
      Lisa Hunter
      720 N. Colusa St.
      Willows, CA 95988

- **Late or incomplete submittals will not be considered.**

8. Selection Process

A selection committee, including representatives from the GSAs, will review the proposals based on the criteria presented below:

a) Capabilities, Experience, and References
This section considers the Respondent's resources for successfully developing and completing this project. Resumes, and an explanation of experience and familiarity with the Corning Subbasin and its stakeholders must be provided by all staff who will be working on the project, and/or reviewing project deliverables. Explanations of criteria included in *Section 5: Desired Qualifications* will be evaluated. This section also includes evaluation of the Respondent's reputation for being reliable in performing tasks to the satisfaction of its clients and delivering on schedule and within budget.

b) Work Plan (Scope of Services)
Description of how the respondent proposes to complete the project including deliverables necessary to develop a compliant GSP for the Corning Subbasin. This includes having a complete understanding of SGMA requirements, GSP regulations, and familiarity with current and ongoing work within the subbasin and in the region.

c) Cost
The overall project cost in tabular form by task/subtask.

d) Schedule
The overall schedule to complete the proposed work by task/subtask.

Criteria	**Weight**
Capabilities, Experience, and References	35%
Work Plan (Scope of Services)	25%
Cost	15%
Schedule	25%
Total:	**100%**

Selection may consist of two levels of review. Level I will consist of evaluating the proposals for the purpose of establishing the most qualified respondents. Level II will be used to select the finalist. This level may include a request for a presentation/demonstration from the finalist(s), proposal fact finding, and negotiation of contract terms and conditions at no cost to the GSAs.

The GSAs may discuss proposals and negotiate modifications to the proposal, draft scope of work, terms and conditions, and pricing with the prospective firm as part of the selection process. The GSAs reserve the right to select more than one (1) contractor.

9. Timing and Schedule

The following timing and schedule are estimated and subject to change.

Event	Anticipated Date/Time (Subject to Change)
Solicitation Publication	August 14-September 17, 2019
Final Date to Submit Questions and Request Clarification	August 26, 2019
Questions Answered via Addendum(s)	August 30, 2019
RFP Submittals Due	September 17, 2019, 4:00 PM
Preliminary Evaluation Completed	September 18-September 25, 2019
Presentation/Demonstration (if desired)	September 30-October 4, 2019
Evaluation Complete/Recommendations to GSA Boards	October 7, 2019
Award of Contract	October/November 2019

10. General Information

Any and all communication regarding this solicitation shall be in writing and directed to:

Glenn County Department of Agriculture
Lisa Hunter
Water Resource Coordinator
P.O. Box 351
Willows, CA 95988
LHunter@countyofglenn.net

This person will serve as the GSA contact for this solicitation and will develop any necessary addendums to the solicitation to provide clarifications if necessary. **DO NOT** contact other GSA staff, Board members, or Selection Committee members regarding this project or selection procedures. Failure to adhere to these instructions may result in disqualification.

Questions and requests for clarification may only be submitted by e-mail or U.S. Mail to the contact listed above. Verbal, fax, and phone inquiries will not be answered. All questions and requests for clarification shall be submitted no later than **August 26, 2019 at 4:00 PM**. The GSAs reserve the right to decline a response to any question on a case-by-case basis. The GSAs will provide answers and clarifications by posting an addendum(s) on their websites by **August 30, 2019 by 4:00 PM** so all potential Respondents receive consistent information. It is the responsibility of all interested firms to access the website for this information. **Questions received after August 26, 2019 at 4:00 PM will not be answered.**

11. Disclosure of Information

All information and materials submitted to the GSAs in response to this RFP may be reproduced by the GSAs for the purpose of providing copies to authorized GSA staff and selection committee members involved in the evaluation of the proposals, but shall be exempt from public inspection under the California Public Records Act until such time as a Contract is executed. Bid awards are a matter of public record. Once a Contract is executed, proposals submitted in response to this RFP are subject to public disclosure as required by law. Your submission of a proposal is considered your consent to the GSAs' disclosure of the proposal. The GSAs shall not be liable for disclosure of any information or records related to this procurement.

Attachment A.

Sample Contract

INDEPENDENT CONTRACTOR AGREEMENT

This Independent Contractor Agreement ("Agreement") is made and entered into this *date* day of *month*, 2019, by and between Glenn County, a political subdivision of the State of California ("County"), and *name of consultant* ("Consultant").

RECITALS:

A. County has determined that it is desirable to retain Consultant to provide *brief description of services to be provided*; and

B. Consultant represents that it possesses the qualifications, experience, and facilities necessary to perform the services contemplated herein and has proposed to provide those services; and

C. The County desires to retain Consultant to perform the proposed services.

County and Consultant agrees as follows:

AGREEMENT:

1. Scope of Services. Pursuant to Government Code Section 31000, County retains Consultant to perform all the professional services described in Exhibit "A" which is attached hereto *(attach Scope of Work as Exhibit A)* and incorporated herein by this reference which shall include *provide brief scope of work description* ("Services").

2. Term. Services under this Agreement shall commence on *date*, and shall continue until *date*, or until the agreement is terminated by either party in accordance with the provisions of this Agreement.

3. Compensation.

A. The compensation to be paid by County to Consultant for the professional services described in Exhibit "A" shall be the Fixed price, Annual price, Monthly price or Hourly rate set forth in Exhibit "B" which is attached hereto *(attach Fee Schedule as Exhibit B)* and incorporated herein by this reference.

B. To the extent that Consultant is entitled to reimbursement for travel, meals, and lodging, such reimbursement shall be subject to the prior approval of the County Purchasing Agent or authorized deputy and shall be reimbursed in accordance with the County's Reimbursement for Expenses policy contained in Title 7 of the Glenn County Administrative Manual.

C. **The total compensation payable under this Agreement, inclusive of all expenses, shall not exceed *dollar amount in words* dollars**

***($XXXXX.XX)*.** The County shall make no payment to Consultant in any greater amount for any extra, further, or additional services, unless such services and payment therefore have been mutually agreed to and this Agreement has been formally amended in accordance with the provisions of this Agreement.

D. Consultant agrees to testify at County's request if litigation is brought against County in connection with Consultant's work. Unless the action is brought by Consultant or is based upon Consultant's negligence or intentional tortious conduct, County will compensate Consultant for the testimony at Consultant's hourly rate as provided in Exhibit "B".

4. Invoice and Payments. Consultant shall submit invoices for services rendered during the preceding month. Consultant shall attach to each invoice documentation for the hours charged (if applicable) and the documentation shall include an itemized narrative of work completed during the period billed. The County shall pay invoices that are undisputed within thirty (30) days of receipt and approval. The parties agree to exercise good faith and diligence in the resolution of any disputed invoice amounts.

5. Notice. Any invoices, notices, or other documents required to be given under this Agreement shall be delivered either personally, by first-class postage pre-paid U.S. Mail, or overnight courier to the following addresses or such other address provided by the parties in accordance with this section:

If to the County:

Department Contract Administrator
Address
Willows, California 95988
Telephone:

If to Consultant:

Consultant Name
Address
City, State, Zip
Telephone:

Notice shall be deemed to be effective two days after mailing.

6. Independent Contractor.

A. It is understood and agreed, and is the intention of the parties hereto, that Consultant is an independent contractor, and not the employee or agent of County for any purpose whatsoever. County shall have no right to and shall not control the manner or prescribe the method by which the professional services are performed by

Consultant herein. Consultant shall be entirely and solely responsible for its acts and the acts of its agents, employees, and subcontractors while engaged in the performance of services hereunder. Consultant shall have no claim under this Agreement or otherwise against County for vacation pay, sick leave, retirement benefits, Social Security, workers compensation, disability, or unemployment insurance benefits or other employee benefits of any kind. The parties acknowledge that County shall not withhold from Consultant's compensation any funds for income tax, FICA, disability insurance, unemployment insurance or similar withholding and Consultant is solely responsible for the timely payment of all such taxes and related payments to the state and federal governments, for itself and for its employees, agents, and subcontractors who might render services in connection with this Agreement. The Consultant shall inform all persons who perform any services pursuant to this Agreement of the provisions of this section.

B. In the event that the Consultant's activities under this Agreement, or any of them, are found by any state or federal agency to be those of an employee rather than an independent contractor, Consultant agrees to indemnify County and hold County harmless for any damages, costs, or taxes imposed upon it pursuant to the Internal Revenue Code or state or federal taxing laws, including but not limited to any penalties and interest which County may be assessed by such state or federal agency for failing to withhold from the compensation paid to Consultant under this Agreement any amount which may have been required to be withheld by law.

7. Authority of Consultant. It is understood that Consultant is to provide information, research, advice, recommendations, and consultation services to the County. Consultant shall possess no authority with respect to any County decision. The County is responsible for and shall make all governmental decisions related to work of Consultant.

8. Subcontracting and Assignment. Consultant shall not subcontract or assign any portion of the work to be performed under this Agreement without the prior written consent of County.

9. Ownership of Work Product. All technical data, evaluations, calculations, plans, drawings, details, specifications, estimates, reports, documents, or other work product of Consultant, in both paper and original electronic program forms, shall become the property of the County as they are produced and shall be delivered to the County upon completion of services. Consultant may retain copies for its files and internal use, however, Consultant shall not disclose any of the work products of this Agreement to any third party, person, or entity, without prior written consent of the County. Upon reasonable notice, County representatives shall have access to the work for purposes of inspecting same and determining that the work is being performed in accordance with the terms of the Agreement.

10. Indemnification. To the fullest extent permitted by law, Consultant shall defend (with legal counsel reasonably acceptable to the County), indemnify and hold harmless the County, it's officers, employees, and agents, from and against any and all claims, losses, costs, damages, injuries (including injury to or death of an employee of

Consultant or its subcontractors), expenses and liabilities of every kind, nature and description (including incidental and consequential damages, court costs, attorneys' fees, litigation expenses and fees of expert consultants or expert witnesses incurred in connection therewith and costs of investigation) that arise out of, pertain to, or relate to, directly or indirectly, in whole or in part, the negligence, recklessness, or willful misconduct of Consultant, any subcontractor, anyone directly or indirectly employed by them, or anyone that they control (collectively "Liabilities"). Such obligation to defend, hold harmless and indemnify the County, its officers, agents and employees, shall not apply to the extent that such Liabilities are caused by the sole negligence, active negligence, or willful misconduct of the County, its officers, agents and employees. The provisions of the California Government Claims Act, Government Code section 810 et seq., including its defenses and immunities, will apply to allegations of negligence or wrongful acts or omissions by the County. To the extent there is an obligation to indemnify under this paragraph; Consultant shall be responsible for incidental and consequential damages resulting directly or indirectly, in whole or in part, from Consultant's negligence, recklessness, or willful misconduct.

11. Insurance.

A. Insurance Requirements. Without limiting Consultant's indemnification of the County, Consultant shall procure and maintain for the duration of this Agreement, insurance against claims for injuries to persons or damage to property that may arise from, or be in connection with, the performance of the work hereunder by Consultant, Consultant's agents, representatives, employees, and sub-consultants. At the very least, Consultant shall maintain the insurance coverage, limits of coverage and other insurance requirements as described below.

The agency responsible for administering this Agreement is also responsible for enforcing insurance requirements described below. This includes securing certificates of insurance before work under this Agreement is begun. Consultant shall furnish to the County certificates of insurance. All certificates of insurance to be received and approved by the County before work under this Agreement has begun. The County reserves the right to require complete, certified copies of all insurance policies required by this Agreement. Consultant agrees to notify County within two working days of any notice from an insuring agency that cancels, suspends, and reduces in coverage or policy limits the insurance coverages described herein.

Any deductibles or self-insured retention must be declared on certificates of insurance and approved by the County. At the option of the County, either the Consultant shall reduce or eliminate such deductibles or self-insured retentions, with respect to the County, its officers, officials, employees and volunteers, or the Consultant shall procure a bond guaranteeing payment of losses and related investigations, claims administration and defense expenses. Insurance is to be placed with insurers who are licensed to sell insurance and who possess a Best rating of A or higher. However, Workers' Compensation coverage issued by the State Compensation Insurance Fund (SCIF) shall be acceptable.

B. Insurance Required:

(i) General liability: At least $1,000,000 combined single limit per occurrence coverage for bodily injury, personal injury and property damage. If a general aggregate limit is used, then either the general aggregate limit shall apply separately to this project/location, or the general aggregate limit shall be twice the required per occurrence limit. The Consultant or Consultant's insurance carrier shall notify County if incurred losses covered by the policy exceed 50% of the annual aggregate limit.

(ii) Automobile Liability: At least $100,000 to cover bodily injury for one person and $300,000 for two or more persons, and $50,000 to cover property damages. However, policy limits for construction projects shall be at least $1,000,000 combined single limit per accident for bodily injury and property damage for autos used by the Consultant to fulfill the requirements of this Agreement, and coverage shall be provided for "any auto", code 1 as listed on the Acord form "Certificate of Insurance."

(iii) Workers' Compensation and Employer's Liability: Workers' Compensation insurance up to statutory limits and Employer Liability insurance with policy limits of at least $1,000,000 for bodily injury or disease.

(iv) Professional Liability Insurance: Professional liability insurance covering professional services shall be provided in an amount of at least $1,000,000 per occurrence or $1,000,000 on a claims-made basis. However, if coverage is written on a claims-made basis, the policy shall be endorsed to provide at least a two-year extended reporting provision.

Such insurance shall include Glenn County, its elected officials, officers, and employees as an additional insured, and shall not be reduced or canceled without 30 days written prior notice delivered to County. Consultant shall provide County with a certificate of insurance as evidence of insurance protection provided. Insurance certificates provided by any insurance company or underwriter shall not contain the language "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company," or similar language. If Consultant has employees, he/she shall obtain and maintain continuously Workers' Compensation Insurance to cover Consultant and Consultant's employees and partners.

All endorsements are to be received and approved by the County of Glenn before work commences. However, failure to do so shall not operate as a waiver of these insurance requirements.

Unless otherwise agreed by the parties, Consultant shall cause all of its Subcontractors to maintain the insurance coverages specified in this Insurance section and name Consultant as an additional insured on all such coverages. Evidence thereof shall be furnished as County may reasonably request.

The coverage types and limits required pursuant to this Agreement shall in no way limit the liability of Consultant.

12. Professional Services.

A. All work performed under this Agreement shall be performed and completed in a professional manner. All services shall be performed in the manner and according to the professional standards observed by a competent practitioner of the profession in which Consultant and any subcontractors are engaged.

B. Consultant represents and warrants that it is professionally qualified to perform the services described herein; acknowledges that County is relying upon Consultant's qualifications to perform these services in a professional manner; and agrees that County's full or partial acceptance of any work does not release Consultant from its obligation to perform the services in accordance with this Agreement unless County expressly agrees otherwise in writing.

C. Consultant shall not be considered to be in default because of any nonperformance caused by occurrences beyond its reasonable control. The compensation specified in Paragraph 3 may be reduced to account for such nonperformance.

13. Responsibility of Consultant.

A. Consultant shall be solely responsible for the quality and accuracy of its work and the work of its consultants performed in connection with this Agreement. Any review, approval, or concurrence therewith by the County shall not be deemed to constitute acceptance or waiver by the County of any error or omission as to such work.

B. Consultant shall coordinate the activities of all sub-consultants and is responsible to ensure that all work product is consistent with one another to produce a unified, workable, and acceptable whole functional product. County shall promptly notify Consultant of any defect in Consultant's performance.

14. Audit. The following audit requirements apply from the effective date of this Agreement until three years after County's final payment:

A. Consultant shall allow County's authorized representatives reasonable access during normal business hours to inspect, audit, and copy Consultant's records as needed to evaluate and verify any invoices, payments, and claims that Consultant submits to County or that any payee of Consultant submits to Consultant in connection with this Agreement. 'Records' includes, but is not limited to, correspondence, accounting records, sub-consultant files, change order files, and any other supporting evidence relevant to the invoices, payments, or claims.

B. County and Consultant shall be subject to the examination and audit of the State Auditor, at the request of County or as part of any audit of County. Such examinations and audits shall be confined to matters connected with the performance of this Agreement including but not limited to administration costs.

This section shall survive the expiration or termination of this Agreement.

15. Publication of Documents and Data. Consultant may not publish or disclose to any third party any information obtained in connection with services rendered under this Agreement without the prior written consent of the County. Notwithstanding the forgoing, submission or distribution to meet official regulatory requirements, or for other purposes authorized by this agreement, shall not be construed as publication in derogation of the rights of either the County or Consultant.

16. Employment Practices. Consultant, by execution of this Agreement, certifies that it does not discriminate against any person upon the basis of race, color, creed, national origin, age, sex, disability, or marital status in its employment practices.

17. Termination. Either party shall have the right to terminate this Agreement at any time for any reason upon thirty (30) days advance written notice to the other party. Agreements exceeding the monetary limits delegated to the Purchasing Agent, or authorized deputies, are not valid unless duly executed by the Chair of the Board of Supervisors. If this Agreement was executed for the County by the Purchasing Agent, or an authorized deputy, this Agreement shall automatically terminate on the date that the provision of services or personal property or incurring of expenses, the cumulative total of which, exceeds twenty-thousand dollars ($20,000).

18. Jurisdiction. This Agreement shall be administered and interpreted under the laws of the State of California and any action brought hereunder shall be brought in the Superior Court in and for the County of Glenn.

19. Compliance With Law. Consultant shall comply with all applicable federal, state, and local statutes, ordinances, regulations, rules, and orders, including but not limited to those concerning equal opportunity and non-discrimination.

20. Prevailing Wages. To the extent that any of the work performed under this Agreement is a “public work” within the meaning of Labor Code section 1720, subject to the payment of prevailing wages and Labor Code Section 1771, Consultant shall cause all such work, as applicable, to be performed as a “public work” in compliance with California prevailing wage laws. In the event Consultant fails to do so, Consultant shall be liable for the payment of all penalties, wages and/or damages as required by applicable law.

21. Conflict With Laws or Regulations/Severability. This Agreement is subject to all applicable laws and regulations. If any provision of this Agreement is found by any court or other legal authority, or is agreed by the parties, to be in conflict with any code or

regulation governing its subject, the conflicting provision shall be considered null and void. If the effect of nullifying any conflicting provision is such that a material benefit of the agreement to either party is lost, the Agreement may be terminated at the option of the affected party. In all other cases, the remainder of the agreement shall continue in full force and effect.

22. Provisions Required by Law Deemed Inserted. Each and every provision of law and clause required by law to be inserted in this Agreement shall be deemed to be inserted and this Agreement shall be read and enforced as though it were included. If through mistake or otherwise, any provision is not inserted or is not correctly inserted, then upon application of either Party, the Agreement shall be amended to make the insertion or correction. All references to statutes and regulations shall include all amendments, replacements, and enactments in the subject which are in effect as of the date of this Agreement, and any later changes which do not materially and substantially alter the positions of the Parties.

23. Waivers. Waiver of a breach or default under this Agreement shall not constitute a continuing waiver or a waiver of a subsequent breach of the same or any other provision of this Agreement.

24. Amendments. Any amendments to this Agreement shall be in writing and executed by both parties.

25. Entire Agreement. This Agreement, constitutes the entire Agreement between the parties for the provision of services to County by Consultant and supersedes all prior oral and written agreements and communications.

26. Successors and Assigns. This Agreement shall be binding upon and shall inure to the benefit of any successors to or assigns of the parties.

27. Construction. This Agreement reflects the contributions of both parties and accordingly the provisions of Civil Code section 1654 shall not apply in interpreting this Agreement.

COUNTY OF GLENN	CONSULTANT
By: _____	By:_____
[Name of Department Head]	Authorized Representative
Deputy Glenn County Purchasing Agent	Title: *Name/Position of firm officer*

APPROVED AS TO FORM:

By: _____
William J. Vanasek
County Counsel, Glenn County

Exhibits:
Exhibit A – Scope of Work
Exhibit B – Fee Schedule

Attachment B.

Proposition 1 Planning Grant Application Workplan

Attachment 4. Work Plan

for

Groundwater Sustainability Plan Development in the Corning Subbasin

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Overview

Tasks 1-9 represent foundational, underlying tasks to support GSP development, adoption, and implementation but are not tied directly to the GSP contents, as described in Article 5 of the GSP Regulations. All remaining tasks (Tasks 10-14) are tied directly to the GSP contents and organized by Subarticle of Article 5 (Plan Contents) of the GSP Regulations, with subtasks based on individual sections of each subarticle.

Task 1. Project Management and Administration

This task will consist of the following activities:

1. Day to day project management during the project.
2. Regular tracking and control of task progress and costs, including the development and maintenance of project and task schedules and budgets.
3. Periodic project status meetings with DWR, consulting teams, and other agencies as necessary.
4. Preparation of quarterly and final progress reports.
5. Preparation and submittal of invoices.

Discussion/Assumptions:

This task will be led primarily by GSA staff with GSA member agency and subcommittee oversite and consultant support and completed to provide program supervision and coordination of the project team for the duration of the work to ensure the GSP preparation project is completed within cost, schedule and quality constraints and produces a work product that leads to successful attainment of the sustainability goal.

Deliverables:

1. Quarterly and final progress reports.
2. Reimbursement requests.

Task 2. Facilitation Support

This task will include the following activities:

1. Identification and engagement of interested parties.
2. Meeting facilitation (public, intra-basin, inter-basin).
3. Interest-based negotiation/consensus building.
4. Public outreach facilitation and education.

Discussion/Assumptions:

Facilitation support under the grant will be led by a professional facilitator with staff support and build upon Phase I Facilitation Support Services provided by DWR to cover full GSP development and adoption by January 2022. Facilitation supports multiple tasks throughout GSP development and will ensure that:

1. Work is completed in an open, inclusive, and collaborative manner toward the development of a GSP.

2. The GSP is developed in an inclusive process that seeks, promotes, encourages, and welcomes the involvement of all interested parties.
3. Interested parties meet regularly and work diligently toward a clear and defined goal.
4. Meeting spaces are suitably located and sized.

Deliverables:

1. A Public Outreach Plan which documents specifically who stakeholders are, how they will be engaged, and when they will be engaged. This could also incorporate high level Task 3 information.
2. Meeting announcements, agendas, and minutes or meeting summaries when applicable.

Task 3. Coordination within Corning Subbasin and with Neighboring Basins

This task will include the following activities:

1. Regular communication between the GSAs within the basin and with representatives of neighboring basins.
2. Periodic meetings and workshops to facilitate coordination regarding technical and policy considerations, including evaluation of groundwater conditions and flows, definition of sustainable management criteria, and other relevant topics.
3. Assessment of opportunities to partner on regional studies, share data, and cooperate within and across basins on programs and projects.

Discussion/Assumptions:

For the Corning Subbasin, neighboring basins include the Colusa, West Butte, Vina, Los Molinos, and Red Bluff Subbasins of the Sacramento Valley Groundwater Basin. Coordination will be led by staff with limited direct technical consultant support. However, it is likely that many of the discussions or workshops will be led by a professional facilitator as described in Task 2. Coordination will likely occur through a variety of venues such as the Tehama County Flood Control and Water Conservation District (TCFCWCD), the Corning Sub-basin GSA, the Tehama County Groundwater Commission, Glenn County Board of Supervisors, Glenn-Colusa Irrigation District Board, the Northern Sacramento Valley Integrated Regional Water Management Plan (NSVIRWMP) Board of Directors and Technical Advisory Committee (TAC), other standing and ad hoc groups, and other informal means.

Deliverables:

1. Meeting materials, including agendas, minutes, presentations, etc. when applicable.
2. Voluntary and formal coordination agreements, as applicable.

Task 4. Integrated Hydrologic Modeling

This task will include the following activities:

1. Evaluation of model codes and existing applications.
2. Compilation, evaluation, and comparison of simulated and local information, considering:
    a. Comparison of water budgets

    b. Input data (e.g. diversions, land use, surface water inflows and outflows, precipitation)
    c. Model structure (relationship to hydrogeologic conceptual model (HCM); spatial and temporal discretization; layering; representation of hydrologic features, including streams, springs and groundwater dependent ecosystems; and delineation of subregions).
    d. Calibration: Calibration water budget, and calibration statistics for groundwater levels and streamflows
3. Selection and refinement of integrated hydrologic model for water budget development and other GSP model scenario analysis, considering:
    a. Refinement or other modifications to spatial and temporal discretization and delineation of subregions.
    b. Refinements or other modifications to surface layer inputs, including static and time series data and parameters used to simulate streams and root zone processes, and the representation and spatial distribution of groundwater pumping and recharge.
    c. Refinements to subsurface inputs, including hydrogeology and subsurface representation, boundary conditions, vertical distribution of pumping, and aquifer hydraulic parameters.
4. Development of model scenarios, completion of model runs, and evaluation of model results, including:
    a. Historical, current, and projected water budgets for the subbasin and potentially for subareas within the subbasin
    b. Scenarios for future conditions, considering climate change, land use, population, surface water availability, and other relevant factors
5. Development of model scenarios to support evaluation of potential projects and management actions or other analysis, including:
    a. Model revisions, as needed.
    b. Scenario development and completion of model runs.
    c. Analysis and comparison of potential projects and management actions.

Discussion/Assumptions:

This task will be led by a consultant with staff direction and support and will build upon existing information, including the Interbasin Flow Study conducted by the Butte County Department of Water and Resource Conservation through the NSVIRWM group and funded by the California Water Foundation, as well as the Groundwater Model Assessment conducted as part of the Glenn County Prop 1 Stressed Basin grant. The results and recommendations of these studies will be used to guide selection of an integrated hydrologic model code and application based on what the latest available codes and applications are at that time. For purposes of the proposal, it is assumed that an open-source model application, such as SVSim, C2VSim, or CVHM will be selected as a starting point to develop a model application to support GSP development in the Corning Subbasin. It is anticipated that the selected model will be refined based on local water budget information, including the preliminary water budget being developed as part of the Glenn County Prop 1 Stressed Basin Grant. Other sources of local data will include applicable agricultural water management plans (AWMPs), urban water management plans (UWMPs), municipal service reviews (MWRs), the 2012 Tehama County Groundwater Management Plan (GMP), the 2003 Tehama County Water Inventory and Analysis, the 2012 Glenn

County GMP, and the Northern Sacramento Valley Integrated Regional Water Management Plan (NSVIRWMP).

Deliverables:

1. Model evaluation and selection documentation.
2. Technical documentation of comparisons of selected model to local information.
3. Technical documentation of refinements to selected model.
4. Technical documentation of model scenarios and results.
5. Electronic model files for refined model and scenarios developed.

Task 5. Data Collection and Analysis to Support GSP Development

This task will include the following activities:

1. Identification of data collection and analysis needs.
2. Planning and implementation of data collection activities.
3. Data analysis and documentation of methodologies and results.

Discussion/Assumptions:

This task will be led by a consultant with staff directions and support and will develop data and information to support GSP development and implementation such as the hydrogeologic conceptual model (HCM), understanding groundwater conditions, numerical modeling and calibration, and development of measurable objectives and sustainability thresholds. This task will build upon collection of existing data and analysis of data gaps conducted as part of the Glenn County Prop 1 Stressed Basin grant. This may include a variety of efforts, including verification of monitoring well locations and conditions and the development of a Tehama County well permit database and/or well completion report database that coordinates with existing data in Glenn County. This would include identification of well locations, uses, construction details, etc. to support improvement of the existing monitoring network, outreach to groundwater users, and other purposes as identified. Additionally, this task would include coordination with water suppliers to gather historical well monitoring data to incorporate into the data management system and support GSP development. This task will also include collection of data necessary for the development of an HCM for the Tehama County portion of the subbasin while refining the Glenn County HCM as discussed in Task 11, Subtask 1. Other activities could focus on better understanding of potential land use changes, stream-aquifer interaction, water levels, land subsidence, water quality, or other relevant information to support GSP development. This could include installation of additional stream gages or monitoring wells to provide critical data for better numerical model calibration and monitoring of groundwater conditions, land subsidence, and stream-groundwater interaction.

Deliverables:

1. Datasets developed.
2. Documentation of data collection, analysis, and results.

Task 6. Monitoring Protocols (§352.2)

This task will include the following activities:

1. Identify and compile existing monitoring protocols currently in use in the subbasin.
2. Review and update monitoring protocols as needed for consistency with best management practices (BMPs) and GSP regulations.

Discussion/Assumptions:

This task is related to Article 3 of the GSP Regulations: Technical and Reporting Standards and will be led by a consultant with staff direction and support. The task will build upon existing protocols developed during the Counties' prior groundwater management efforts, including those developed for the:

- Glenn County Groundwater Management Plan and Basin Management Objective (BMO) process.
- California Statewide Elevation Monitoring (CASGEM) Program, including the CASGEM. Monitoring Plan for Glenn County and as part of the 2012 Tehama County GMP
- Glenn County Prop 1 Stressed Basin grant.
- Other supporting efforts as identified.

Existing protocols will be evaluated relative to the SGMA BMP for Monitoring Protocols, Standards, and Sites and GSP Regulations and updated as needed to ensure compliance with SGMA.

Deliverables:

1. Documented monitoring protocols for inclusion in the GSP.

Task 7. Data and Reporting Standards (§352.4)

This task will include the following activities:

1. Prepare a summary and discussion of Data and Reporting Standards for inclusion in the GSP.
2. Verify and document in the GSP that the monitoring protocols and reporting plans and schedules are complaint with the Data and Reporting Standards.
3. Review compiled existing data to be used in the GSP preparation and stored in the GSP data management system (DMS) for compliance with the Data and Reporting Standards and correct, reformat and qualify, as necessary, to document data quality and uncertainty.
4. Assess gaps in existing data resulting from noncompliance or partial compliance with Data and Reporting Standards and develop data gap action plan.
5. Fill high priority data gaps to support GSP development.

Discussion/Assumptions:

This task is related to Article 3 of the GSP Regulations: Technical and Reporting Standards and will be led by a consultant with staff direction and support. The task will focus on existing, publicly available data and will build on work conducted to compile, manage and assess existing data conducted as part of the Glenn County Prop 1 Stressed Basin grant. Much of the effort required to satisfy this task was completed in the Glenn County portion of the subbasin under the prior grant. This effort will focus on developing the Tehama County portion of the subbasin to the same technical level that was completed under the previous grant in Glenn County and implementation of the data gap action plans. Additional work will include incorporating additional, high priority data gaps as new, relevant information becomes

available from DWR and others. Priority will be placed on data required for the basin setting section of the GSP, including development of the hydrogeologic conceptual model (HCM), assessment of groundwater conditions, and development of the water budget. Additionally, this task will be integral to evaluation of the existing monitoring network and data gaps and monitoring network improvements. Data gaps will be further evaluated under Task 13, Subtask 3.

Deliverables:

1. Summary and discussion of Data and Reporting Standards for inclusion in the GSP.
2. Inventory of compiled data and organized, formatted datasets qualified to document the degree of compliance with the Data and Reporting Standards for use in GSP development.
3. Data gap action plan to support GSP development.
4. Documentation of actions to fill high priority data gaps.

Task 8. Data Management System (§352.6)

This task will include the following activities:

1. Preliminary Data Management System (DMS)
    a. Develop specifications for initial design of DMS.
    b. Develop, test, and implement high priority quality control procedures.
    c. Compile high priority data and import to preliminary, non-proprietary DMS capable of supporting GSP development and potential future porting to other platforms.
    d. Implement and test QC procedures for high priority data.
2. Final Data Management System
    a. Evaluate range of DMS options for long-term implementation, including proprietary, open source, and custom applications.
    b. Select and implement DMS for long term GSP implementation.

Discussion/Assumptions:

This task is related to Article 3 of the GSP Regulations: Technical and Reporting Standards and will be led by a consultant with staff direction and support. Preliminary DMS development is being completed as part of the Prop 1 Stressed Basin grant awarded to Glenn County in 2016 for the Glenn County portion of the subbasin. Preliminary DMS development for the Tehama County portion of the basin will build upon these prior efforts, but will still require steps listed above in Item 1.

Final DMS development for the entire subbasin will be completed during GSP preparation and will be informed by DWR reporting requirements, once established, as well as guidance that DWR may provide in the form of a BMP or other documents/materials that may be available. An initial evaluation of DMS options was completed under the Glenn County Prop 1 Stressed Basins Grant. A further evaluation will build upon the initial evaluation and will consider a range of available options, including proprietary systems, open-source systems developed by DWR or others, and custom applications.

Deliverables:

1. Preliminary DMS specifications technical memorandum.
2. Final DMS evaluation and selection technical memorandum.
3. DMS evaluation and selection technical memorandum.

4. DMS user guide.
5. DMS software, including data used in the development and implementation of the GSP and required to support annual reporting.

Task 9. GSP Document Preparation and Adoption

This task will include the following activities:

1. Assemble draft GSP based on content developed under Tasks 10 through 14.
2. Distribute GSP for public review, gather, consider, document, and when appropriate incorporate public comments, and facilitate GSP adoption by GSAs.

Discussion/Assumptions:

This task will be led by a consultant with staff direction and support. The draft PSP will be assembled for public review by compiling various sections of the GSP developed under Tasks 10 through 14, including review of each section to ensure that all GSP content required by the GSP Regulations is included. Copies of the GSP will be reproduced as needed to facilitate public review by stakeholders within each GSA. The availability of the GSP for review and comment will be advertised within the subbasin, comments will be gathered and considered, and responses will be developed and when appropriate incorporated into the GSP. Additionally, this task will include facilitation of adoption of the GSP at one or more public hearings.

Deliverables:

1. Draft and final GSP documents, including documentation of comments received and responses provided.

Task 10. GSP Administrative Information (Subarticle 1)

This task consists of all activities required to prepare GSP Administrative Information as described in Article 5, Subarticle 1 of the GSP Regulations. Associated subtasks are described below.

Subtask 1. General Information (§354.4)

This subtask will include the following activities:

1. Prepare executive summary.
2. Compile and prepare list of references and technical studies relied upon.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 1: Administrative Information and will be led by a consultant with staff direction and support. The executive summary will be prepared late in the development of the GSP, building upon individual sections of the Plan once complete or nearly complete. References will be compiled and cataloged throughout GSP development.

This task will incorporate references and technical studies from prior work, which will include a variety of sources such as the 2012 Tehama County GMP, the 2003 Tehama County Water Inventory and Analysis, the 2000 and 2012 Glenn County GMP and BMO Process and Draft BMO revision process,

technical documentation of the Glenn County Prop 1 Stressed Basins grant, the NSVIRWMP, and other sources identified during GSP development.

Deliverables:

1. General information section of GSP document, including executive summary and list of references and technical studies.

Subtask 2. Agency Information (§354.6)

This subtask will include the following activities:

1. Prepare summary of Agency information.
2. Prepare estimate of implementation costs.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 1: Administrative Information and will be led by a consultant with staff direction and support. Agency information as required by the GSP regulations will be prepared primarily by staff at the start of GSP development. The estimate of GSP implementation costs will be prepared late in GSP development once activities to be conducted in implementing the GSP are better understood (monitoring, reporting, projects and management actions, etc.) and will likely be led by a consultant.

Deliverables:

1. Summary of Agency information and GSP implementation costs for inclusion in the GSP.

Subtask 3. Description of Plan Area (§354.8)

This subtask will include the following activities:

1. Prepare map(s) of plan area, including GSAs; adjacent basins; adjudicated and alternative GSP areas; other jurisdictional boundaries; land uses, water use sectors, and water source types; well densities for ag, industrial, and domestic wells.
2. Prepare written description of plan area, including summary of map(s).
3. Describe existing water resource monitoring and management programs, including integration into monitoring network.
4. Describe how existing programs may limit operational flexibility.
5. Describe conjunctive use programs.
6. Describe land use elements including summary of general plans and specified considerations related to GSP development and implementation.
7. Describe additional GSP elements determined to be appropriate.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 1: Administrative Information and will be led by a consultant with staff direction and support. This task will build upon available information such as the 2012 Tehama County GMP, the 2003 Tehama County Water Inventory Analysis, documentation developed from the Glenn County Stressed Basin grant, AWMPs, UWMPs,

MSRs, the NSVIRWMP, available general plans, data made available by DWR, and other information as appropriate.

Deliverables:

1. Maps and narrative description of the plan area for inclusion in the GSP.

Subtask 4. Notice and Communication (§354.10)

This subtask will include the following activities:

1. Describe beneficial uses and users.
2. Develop database of stakeholders for purposes of outreach and notification.
3. Compile list of public meetings related to GSP development.
4. Compile public comments received and responses by GSAs.
5. Prepare communication section describing GSA decision-making process, public engagement process, encouragement of active involvement, notification method(s) and process.
6. Conduct outreach activities, including regular stakeholder meetings.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 1: Administrative Information and will be led by staff with consultant support. Facilitation support will be utilized during this process, however these services will be completed and reported under Task 2, as described previously. Additionally, coordination with neighboring basins may also be a component of this task, however, that coordination will be completed and reported under Task 3, as described previously. Documentation of comments and responses will apply to comments prior to the formal GSP adoption process, which will be documented under Task 9.

The subtask will begin with a focus on identification of stakeholders (beneficial uses and users) and development of the communications plan. The remainder of the task, including regular stakeholder meetings, preparation and issuance of notices and communications, and documentation of public comments and responses will be conducted throughout GSP development.

Deliverables:

1. Notice and communication section of GSP, including all content required under work activities 1 through 6, above.

Task 11. Basin Setting (Subarticle 2)

This task consists of all activities required to prepare the GSP Basin Setting as described in Article 5, Subarticle 2 of the GSP Regulations. Associated subtasks are described below.

Subtask 1. Hydrogeologic Conceptual Model (§354.14)

This subtask will include the following activities:

1. Prepare written description of the basin including:
    a. Regional geologic and structural setting.
    b. Lateral basin boundaries and major geologic features potentially affecting groundwater flow.

    c. Definable bottom of basin and base of freshwater.
    d. Principal aquifers and aquitards, including formation names, physical properties (aquifer parameters), structural properties, general water quality, primary groundwater uses and users.
    e. Primary data gaps and uncertainty.
2. Prepare graphical depiction of the HCM illustrating major features of the hydrologic system relevant to the water budget and flow.
3. Compile and/or prepare at least two scaled cross-sections depicting major stratigraphic and structural features.
4. Prepare map(s) depicting the following:
    a. Surface topography.
    b. Surficial geology.
    c. Surface soil characteristics.
    d. Existing and potential recharge areas and discharge areas.
    e. Significant surface water bodies.
    f. Sources and points of delivery for imported supplies.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 2: Basin Setting and will be led by a consultant with staff direction and support. This task will refine the preliminary hydrogeologic conceptual model (HCM) developed for Glenn County as part of the Glenn County Prop 1 Stressed Basin grant, the 2012 Tehama County GMP, the 2003 Tehama County Water Inventory and Analysis, and other sources identified during the project. Additionally, the HCM and associated documentation developed for other open-source models such as SVSim, C2VSim, CVHM, and/or other existing integrated hydrologic models will be reviewed and utilized when appropriate to refine the preliminary HCM, and inform the development of the basin-wide HCM. Refinements may include expansion and refinement of existing geologic cross-sections or development of new cross-sections to adequately identify major stratigraphic and structural features. It is anticipated that this subtask will include consultation with DWR modeling and regional office technical staff as well.

Deliverables:

1. Written description of the Subbasin, graphical depiction of the HCM, geologic map and cross sections, and other maps as required by the GSP Regulations for inclusion in the GSP.

Subtask 2. Current and Historical Groundwater Conditions (§354.16)

This subtask will include the following activities:

1. Develop groundwater elevation maps and hydrographs demonstrating flow directions, lateral and vertical gradients, and regional pumping patterns, and changes in groundwater elevations over time for the principal aquifers in the subbasin.
2. Develop graphs estimating annual and cumulative change in groundwater storage, including annual use and water year type.
3. Describe and map groundwater quality issues, including known contamination sites and plumes.
4. Describe and map land subsidence.
5. Identify interconnected surface water and estimate quantity and timing of depletions.

6. Identify groundwater dependent ecosystems (GDEs).

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 2: Basin Setting and will be led by a consultant with staff direction and support. This task will build on work conducted under the Glenn County Prop 1 Stressed Basin grant to evaluate historical groundwater conditions. For initial GSP development, existing, available information will be relied upon primarily, with additional data collected as needed and identified under Task 13, Subtask 3 described below. Examples of existing information that will be considered are the DWR Water Data Library, monitoring results reported under the CASGEM and local monitoring programs, USGS data, available DWR models and tools, existing groundwater quality monitoring and management programs (GAMA, ILRP, etc.), existing subsidence monitoring (DWR, NASA), and the GDE identification framework and potential GDE dataset from The Nature Conservancy (TNC).

Deliverables:

1. Maps, hydrographs, and other data required by the Regulations for inclusion in the GSP.

Subtask 3. Water Budget Information (§354.18)

This subtask will include the following activities:

1. Quantify historical and current water budget components, including:
    a. Surface water entering and leaving basin by water source type.
    b. Inflow to groundwater system by water source type.
    c. Outflows from groundwater system by water use sector.
    d. Change in annual groundwater storage.
    e. Average overdraft, if applicable.
    f. Estimated supplies, demands, and storage change by water year type.
    g. Estimated sustainable yield.
2. Evaluate historical water budget as follows:
    a. Availability and reliability of surface water supplies.
    b. Assessment of historical budget suitability to project future water budget information.
    c. Impacts of historical conditions on ability to operate basin within sustainable yield.
3. Develop projected water budgets as follows:
    a. Compile 50 years of historical precipitation, evapotranspiration, and streamflow for baseline condition.
    b. Compile water demand based on most recent land use, evapotranspiration, and crop coefficient information for baseline condition.
    c. Compile recent surface water supplies.
    d. Develop projected water budget.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 2: Basin Setting and will be led by a consultant with staff direction and support. This task will consist primarily of organizing, summarizing, and reporting water budget information developed using the integrated hydrologic model under Task 4, described previously and will build on the preliminary water budget being developed as

part of the Glenn County Prop 1 Stressed Basin grant. Primary analysis conducted as part of this subtask will include the evaluation of sustainable yield, as informed by sustainable management criteria developed under Task 12, as well as evaluation of the availability and reliability of surface water supplies, suitability of the historical water budget to project future water budget information, and impacts of historical conditions on the ability to operate sustainably.

Deliverables:

1. Water budget section including required content for inclusion in the GSP.

Subtask 4. Management Areas (§354.20)

This subtask will include the following activities:

1. Consider and define management areas as necessary.
2. Describe the following for each management area:
    a. Reason for creation.
    b. Minimum Thresholds (MTs) and Measurable Objectives (MOs) based on undesirable results defined with basin-wide consistency, as developed under Task 12, Subtasks 2 through 4.
    c. Level of appropriate monitoring and analysis.
    d. Explanation of operations without undesirable results in adjacent areas.
3. Prepare maps and descriptions to describe conditions in each management area.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 2: Basin Setting and will be led by a consultant with staff direction and support. The primary focus of this task will be to consider, evaluate, and define management areas as necessary, which will be driven by a combination of technical analysis and discussions with stakeholders within the subbasin, including the general public, the Tehama County Groundwater Technical Advisory Committee (TAC), Tehama County Groundwater Commission, TCFCWCD Board of Directors, Glenn County Board of Supervisors, and the Glenn-Colusa Irrigation District Board of Directors. Facilitation support, as described in Task 2, will be a critical component to the stakeholder discussions. Facilitation support will be reported under Task 2. Definition of management areas will consider groundwater conditions, geology and aquifer characteristics, land use, water sources, water uses, jurisdictional boundaries, existing subbasin boundaries, etc. through a collaborative, public process.

Deliverables:

1. Descriptions and maps of management areas as required by the GSP Regulations for inclusion in the GSP.

Task 12. Sustainable Management Criteria (Subarticle 3)

This task consists of all activities required to prepare GSP Sustainable Management Criteria as described in Article 5, Subarticle 3 of the GSP Regulations. Associated subtasks are described below.

Subtask 1. Sustainability Goal (§354.24)

This subtask will include the following activities:

1. Prepare general description of sustainability goal.
2. Describe information from basin setting to establish goal.
3. Describe measures to ensure operation within sustainable yield.
4. Describe how sustainability goal is likely to be achieved within 20-year planning horizon.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 3: Sustainable Management Criteria and will be led by a consultant with staff direction and support. Completion of the subtask will begin with development of a general description of the sustainability goal, which will be defined in greater detail over the course of GSP development. Development and description of the sustainability goal will consider the basin setting developed under Task 11; evaluation of sustainability indicators, significant and unreasonable conditions, minimum thresholds, undesirable results, interim milestones, and measurable objectives under Subtasks 2 through 4 of Task 12; and development of projects and management actions to maintain or achieve sustainability under Task 14.

Deliverables:

1. Description of sustainability goal and supporting information required by the GSP Regulations for inclusion in the GSP.

Subtask 2. Undesirable Results (§354.26)

This subtask will include the following activities:

1. Describe processes and criteria to define undesirable results (URs).
2. Describe existing or potential URs, including:
    a. Existing/potential causes of URs.
    b. Quantitative criteria based on a combination of minimum threshold (MTs) exceedances to define when and where URs occur.
    c. Potential effects of URs on the beneficial uses and users of groundwater, land uses property interests and other potential effects.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 3: Sustainable Management Criteria and will be led by a consultant with staff direction and support. Facilitation support, as described in Task 2, will be a critical component to the stakeholder discussions. Facilitation support will be reported under Task 2. Qualitative descriptions of significant and unreasonable conditions will be developed through a collaborative, public process informed by technical data and analysis based on the basin setting, monitoring network, and other information. This task will build upon preliminary SGMA Risk Assessments completed by both Tehama and Glenn counties previously to provide a preliminary evaluation of groundwater conditions and potential undesirable results in the Corning Subbasin. It is also assumed that seawater intrusion will be eliminated from consideration; however, documentation of the lack of seawater intrusion or significant risk of seawater intrusion will be developed for inclusion in the GSP.

Deliverables:

1. Description of Undesirable Results as required by the GSP Regulations for inclusion in the GSP.

Subtask 3. Minimum Thresholds (§354.28)

This subtask will include the following activities:

1. Establish MTs at representative monitoring sites.
2. Describe MTs, including:
    a. Information and criteria to establish and justify MT.
    b. Relationship between MTs for each sustainability indicator.
    c. How MTs have been selected to avoid URs in adjacent basins.
    d. How MTs may impact other beneficial uses and users of groundwater or land uses and property interests.
    e. How other (State, Federal, etc.) standards relate to MTs.
    f. How each MT will be quantified.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 3: Sustainable Management Criteria and will be led by a consultant with staff direction and support. Facilitation support, as described in Task 2, will be a critical component to the stakeholder discussions. Facilitation support will be reported under Task 2. MTs will be established through a collaborative, public process informed by technical data and analysis based on the basin setting, monitoring results, and other information as applicable. It is anticipated that for most management areas, the goal of this process will be to establish MTs for groundwater levels as the representative measurement for multiple sustainability indicators and, where possible, to demonstrate that undesirable results for some sustainability indicators are not present, are not likely to occur, and that MTs are not required. However, this assumption will be assessed during site and area specific evaluations.

Deliverables:

1. Description of Minimum Thresholds as required by the GSP Regulations for inclusion in the GSP.

Subtask 4. Measurable Objectives (§354.30)

This subtask will include the following activities:

1. Establish MOs and 5-year Interim Milestones (IMs) for each sustainability indicator.
2. Describe establishment of reasonable margin of operational flexibility.
3. Describe reasonable path to sustainability for 20-year planning horizon.

Discussion/Assumptions:

This task is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 3: Sustainable Management Criteria and will be led by a consultant with staff direction and support. MOs and IMs will be established through a collaborative, public process informed by technical data and analysis based on the basin setting, monitoring results, and other information.

Deliverables:

1. Description of Measurable Objectives and Interim Milestones as required by the GSP Regulations for inclusion in the GSP.

Task 13. Monitoring Networks (Subarticle 4)

This task consists of all activities required to prepare GSP Monitoring Network information as described in Article 5, Subarticle 4 of the GSP Regulations. Associated subtasks are described below.

Subtask 1. Monitoring Network (§354.34)

This subtask will include the following activities:

1. Develop monitoring network capable of collecting sufficient data to demonstrate short-term, seasonal, and long-term trends in groundwater and related surface conditions, and yield representative information about groundwater conditions as necessary to evaluate GSP implementation.
2. Describe monitoring network objective, including how the network will be developed and implemented to:
    a. Demonstrate progress toward achieving MOs.
    b. Monitor impacts to beneficial uses and users of groundwater.
    c. Monitor changes in groundwater conditions relative to MTs, MOs, IMs.
    d. Quantify changes in annual water budget components.
3. Describe adequacy of monitoring network to evaluate sustainability indicators, including site density and monitoring frequency.
4. Describe the following:
    e. Scientific rationale for site selection.
    f. Consistency with data and reporting standards.
    g. MTs, MOs, and IMs corresponding to each site and sustainability indicator.
5. Prepare map(s) and table(s) describing the location, type, monitoring frequency, and purpose of each site.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 4: Monitoring Networks and will be led by a consultant with staff direction and support. This task will build on work conducted under the Glenn County Prop 1 Stressed Basin grant to evaluate historical groundwater conditions, efforts conducted previously as part of the California Statewide Elevation Monitoring (CASGEM) Program, the 2012 Tehama County GMP, the 2012 Glenn County GMP including Basin Management Objectives, and other relevant supporting efforts. The monitoring network previously established will be revised and refined based on the GSAs' collaborative processes to define management areas, MTs, MOs, and IMs under Tasks 11 and 12 of this proposal, and additional technical data collected as part of the proposal (Tasks 5 and 7).

Deliverables:

1. Description of the monitoring network capable of yielding representative information about groundwater and related surface conditions in the subbasin, including monitoring objectives, rationale for the selection of monitoring locations, parameters and frequencies for each sustainability indicator.
2. Maps and tabular summary of the existing and proposed monitoring network.
3. Implementation plan for proposed monitoring network.

Subtask 2. Representative Monitoring (§354.36)

This subtask will include the following activities:

1. Designate representative monitoring sites.
2. Evaluate adequacy of groundwater levels as proxy for other sustainability indicators.
3. Describe adequacy of sites to represent general conditions in area.

Discussion/Assumptions:

This subtask is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 4: Monitoring Networks and will be led by a consultant with staff direction and support. This task will build on work conducted under the Glenn County Prop 1 Stressed Basin grant to evaluate historical groundwater conditions, efforts conducted previously as part of the California Statewide Elevation Monitoring (CASGEM) Program, the 2012 Tehama County GMP, the 2012 Glenn County GMP including Basin Management Objectives, and other relevant supporting efforts. The monitoring sites assessed in these prior efforts and new monitoring sites identified as part of this proposed effort will be considered for classification as representative monitoring sites based on collaborative processes to define management areas, MTs, MOs, and IMs under Tasks 11 and 12 of this proposal, and additional technical data collected as part of the proposal (Tasks 5 and 7). Representative monitoring sites will be selected from the monitoring network defined under Task 13, Subtask 1 of this proposal.

Deliverables:

1. Description of the Representative Monitoring sites, including supporting information justifying why each site reflects general conditions in the area, as required by the GSP Regulations for inclusion in the GSP.

Subtask 3. Assessment and Improvement of Monitoring Network (§354.38)

This subtask will include the following activities:

1. Update initial data gap action plan.
2. Evaluate uncertainties and potential effect on GSP success.
3. Modify frequency and density of monitoring sites, as needed.

Discussion/Assumptions:

This task is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 4: Monitoring Networks and will be led by a consultant with staff direction and support. This task will build on work conducted under the Glenn County Prop 1 Stressed Basin grant to evaluate historical groundwater conditions, efforts conducted previously as part of the California Statewide Elevation Monitoring (CASGEM) Program, the 2012 Tehama County GMP, the 2012 Glenn County GMP including Basin Management Objectives, and other relevant supporting efforts. In conjunction with the work conducted under Task 7, this task will provide an evaluation of the data gaps in the proposed monitoring network and the uncertainty in the network. The assessment will address the number and locations of monitoring sites, monitoring frequencies and the quality of the data collected. Recommendations will be made to fill the data gaps. A description of the process to be used for five-year review of the monitoring network will be developed.

Deliverables:

1. Assessment of the number and locations of monitoring sites, monitoring frequencies and the quality of the data collected, as required by the GSP Regulations for inclusion in the GSP.
2. Recommendations for improvements to the monitoring network.
3. Description of the process for evaluating the monitoring network during five-year reviews.

Subtask 4. Reporting Monitoring Data to the Department (§354.40)

This task will include the following activities:

1. Review DWR forms for reporting of monitoring data.
2. Format monitoring data and/or develop reports aligned with DWR requirements.

Discussion/Assumptions:

This task is related to Article 5 of the GSP Regulations: Plan Contents, Subarticle 4: Monitoring Networks and will be led by a consultant with staff direction and support. This task will build on preliminary DMS development being performed as part of the Prop 1 Stressed Basin grants awarded to Glenn County in 2016 and work conducted under Task 8 of this proposal. Efforts under this proposed task will consist of updating the DMS to produce monitoring data reports for the Annual Report and electronic data submittals required by DWR.

Deliverables:

1. DMS updates to produce monitoring data to be included in Annual Reports and electronic submittals on DWR forms.
2. Description of the DMS functionality for Annual reporting for inclusion in the GSP.

Task 14. Projects and Management Actions (§354.44)

This task will include the following activities:

1. Develop projects and management actions (PMAs) to achieve sustainability goal as needed.
2. Describe PMAs, including:
    a. List of PMAs and associated MOs, including circumstances for implementation/termination and processes for determining associated conditions that have occurred and for notifying the public and other agencies.
    b. Quantification of demand reduction or other methods to reduce overdraft.
    c. Required permitting and regulatory processes.
    d. Status of each PMA, including timeline for implementation and accrual of benefits.
    e. Explanation of PMA benefits and process for evaluation.
    f. Explanation of how PMA will be accomplished, including source and reliability of additional supplies.
    g. Description of required legal authority.
    h. Description of estimated cost and financing.
    i. Description of management of extractions and recharge to ensure lowering of groundwater levels during drought is offset by increases during other periods.

Discussion/Assumptions:

This task is related to Article 5 of the GSP Regulations, Subarticle 5 of the GSP Regulations: Projects and Management Actions and will be led by a consultant with staff direction and support. Facilitation support, as described in Task 2, will be a critical component to the stakeholder discussions. Facilitation support will be reported under Task 2. Identification and discussion of PMAs in potential areas of concern will be initiated early in GSP development through a collaborative, public process. Based on this process and initial screening, selected PMAs will be further defined and evaluated. Selected PMAs will be evaluated using the Integrated Hydrologic Model under Task 4 to evaluate project impacts on groundwater conditions and related sustainability indicators to support quantification of project benefits.

Deliverables:

1. Description of Projects and Management Actions as required by the GSP Regulations for inclusion in the GSP.