

## **DRAFT SCOPE OF WORK**

### Introduction

The Cosumnes Subbasin GSP identifies a Phase 1 (2022-2028) goal of 2,700 acre-feet/year reduction of groundwater pumping. The Priorities Project List focuses on the Phase 1 activities by CGA intended to achieve the groundwater pumping reduction. This Scope of Work supports the Cosumnes Groundwater Authority (CGA) in their update and refinement of the Priorities Project List which will be relied upon for future funding opportunities including the upcoming SGMA Implementation Grant submittal.

### **Task 1: Finalize Scope and Work Plan**

The EKI Team (EKI Environment & Water [EKI], Larry Walker and Associates [LWA], and LandIQ) will assist the CGA Board, committees, staff, and partners to identify Voluntary Land Repurposing, Conservation/Water Use Efficiency, and Recharge Project program needs including estimated implementation costs. Task 1 finalizes the task descriptions, assigns appropriate Team members, and allocates the level of effort commensurate with CGA funding (\$35,000).

### **Task 2: Farmer/Public Outreach**

Support CGA outreach activities to evaluate interest in Land Repurposing, including fallowing, and Conservation/Water Use Efficiency programs. The CGA will solicit ideas and feed-back for methods and approaches that improve agricultural - including aquaculture – water use with a focus primarily on the highest demands for water. The EKI Team will help develop a detailed Land Repurposing/Conservation survey, prepare related solicitation materials, and support CGA during their public workshop.

### **Task 3: Voluntary Land Repurposing**

Summarize representative crop types/categories, irrigation methods, application efficiency, and consumptive use of water in the Cosumnes Subbasin. Develop baseline groundwater consumption estimate based on current (2020) land use conditions and identify potential alternative land use conditions to achieve groundwater pumping reduction goals. Explore potential landowner compensation methods for review by CGA and summarize funding sources that could support a Land Repurposing program.

### **Task 4: Conservation/Water Use Efficiency**

Identify conservation and water use efficiency strategies applicable to conditions in the Cosumnes Subbasin. Evaluate representative compensation methods to incentivize landowner participation. The EKI Team will summarize results for CGA review and assist CGA identify available funding sources to support the program.

### **Task 5: Recharge Projects**

The EKI Team will summarize and scope out applicable groundwater recharge methods and practices and develop methods to estimate the cost-benefit ratio of potential conceptual projects. Project descriptions shall focus on small scale projects with locations distributed throughout the Cosumnes Subbasin and their integration with existing recharge projects under consideration. The EKI Team will coordinate with CGA Staff to integrate information gathered from CGA member GSAs and/or partners.

### **Task 6: Data collection, data gaps, and groundwater monitoring to support refinement of numeric model**

The EKI Team will assist CGA update and prioritize the existing list of data gaps by identifying methods, level of effort, and approximate costs to implement the data gap filling effort. The planning effort will include integration of aerial imagery, updated land use, water demand, and the hydrogeological framework to refine the CoSANA model and direct long-term funding decisions.

### **Task 7: Priority Project List**

The EKI Team will assist the PMA committee update the Phase 1 Priority Projects List based on the results of Tasks 2 through 6. The EKI Team will incorporate technical and cost information into the project descriptions for the PMA committee to integrate with results from their Public Outreach effort. The updated list will be presented to the CGA and when accepted inform CGA's Phase 1 activities for the period 2022-2028. The EKI Team will assist CGA Staff to develop a Report summarizing Phase 1 activities and the work completed under this Scope of Work.

### **Task 8: Support Grant Writer**

The EKI Team will provide technical descriptions and cost estimates from Tasks 2 through 7 to support the Grant writer preparing the SGMA Implementation Grant application.

### **Task 9: Project Management**

Routine project management tasks including budget management and invoicing.

### Project Schedule

The EKI Team is prepared to start work on the above Scope of Work immediately upon authorization to proceed. It is expected that the PMA Committee will meet throughout July and August in preparation for an early/mid-September public workshop. Following the public workshop, the EKI Team will incorporate edits to the Project Priority List and assist the Grant Writer in the SGMA Implementation Grant application as described above under Task 7. The EKI Team will assist CGA staff present the Priority Projects List to CGA Board of Directors and seven (7) GSAs during a public meeting.

### Compensation for Consulting Services

Inasmuch as the exact level of effort required to complete the above Scope of Work cannot be known precisely, EKI proposes to perform the work on a time and materials expense reimbursement basis. A breakdown of the estimated budget is provided in Table 1 below.

**Table 1. Proposed Project Budget<sup>1</sup>**

<b>TASK</b>	<b>Cost (% of budget)</b>
Task 1 – Finalize Scope and Work Plan.	5%
Task 2 – Public Outreach.	10%
Task 3 – Voluntary Land Repurposing.	10%
Task 4 – Conservation/Water Use Efficiency.	10%
Task 5 – Recharge Projects.	10%
Task 6 – Data collection, data gaps, and groundwater monitoring to support numerical model refinements.	10%
Task 7 – Priority project list.	5%
Task 8 – Support Grant Writer.	10%
Task 9 – Project Management.	10%
<b>TOTAL<sup>2</sup></b>	<b>100%</b>

1. Percent allocations are approximate. The funding levels will be refined and finalized as part of Task 1.
2. The current budget for planning purposes is \$35,000.