

## Exhibit A

### WORK PLAN – Example for multiple component for all planning activities

**Project Title:** XXXX Basin Groundwater Sustainability Spending Plan (Project)

**Project Description:** The Work Plan includes activities associated with implementation and continued planning, development, and preparation of a GSP for the XXXX Groundwater Basin (Basin). The resulting GSP and implementation projects will incorporate appropriate Best Management Practices (BMPs) as developed by DWR, and will result in a more complete understanding of the groundwater subbasin to support long-term sustainable groundwater management. The Project also consists of the installation of four (4) monitoring wells for identifying data gaps in enhancing the existing monitoring network in relation to development of the GSP and understanding basin water use. The Work Plan includes five components:

Component 1: Grant Agreement Administration

Component 2: Ongoing Monitoring and Enhancements

Component 3: Project and Management Action Implementation

Component 4: GSP Implementation, Outreach, and Compliance Activities

Component 5: Improving Understanding of Basin Water Use

#### **COMPONENT 1: GRANT ADMINISTRATION**

##### **Category (a): Grant Agreement Administration**

Prepare reports detailing work completed during reporting period as outlined in Exhibit F, “Report Formats and Requirements” of this Agreement. Progress Reports will include sufficient information for the DWR Grant Manager to understand and review backup documentation submitted with invoices. Quarterly invoices will accompany the Quarterly Progress Reports and should be submitted to the DWR Grant Manager for review to receive reimbursement of Eligible Project Costs. Collect and organize backup documentation by component, budget category, and task and prepare a summary Excel document detailing contents of the backup documentation organized by component, budget category, and task.

Prepare and submit the Environmental Information Form (EIF) within 30 days of the execution date of the Grant Agreement. No invoices will be reviewed or processed until the EIF has been received by the DWR Grant Manager. Submit a deliverable due date schedule within 30 days of the execution date of the Grant Agreement to be reviewed and approved by the DWR Grant Manager. Any edits to the schedule must be approved by the DWR Grant Manager and the revised schedule saved in the appropriate project files.

Prepare the Draft Component Completion Report and submit to the DWR Grant Manager for comment and review 90 days before the end date for each component as outlined in Exhibit C. DWR’s Grant Manager will review the Draft Component Completion Report and provide comments and edits within 30 days of receipt, when possible. Prepare a Final Component Completion Report addressing the DWR Grant Manager’s comments within 30 days before each Component end date outlined in Exhibit C. The report shall be prepared and presented in accordance with the provisions of Exhibit F, “Report Formats and Requirements” and approved by the DWR Grant Manager within 30 days after the end date. All deliverables listed within the Work Plan shall be submitted with each Final Component Completion Report unless a new deliverable due date was approved by the DWR Grant Manager.

Prepare the Draft Grant Completion Report and submit to the DWR Grant Manager for comment and review 90 days before the work completion date listed in Paragraph 2. DWR’s Grant Manager will review the Draft Grant Completion Report and provide comments and edits within 30 days of receipt, when possible. Prepare a Final Completion Report addressing the DWR Grant Manager’s comments prior to the work completion date. The report shall be prepared and presented in accordance with the provisions of Exhibit F, “Report Formats and Requirements” and approved by the DWR Grant Manager within 30 days after the work completion report. However, all charges accrued after the work completion date in Paragraph 2 will not be reimbursed. The retention invoice must be received, processed, and through DWRs accounting office by the final payment date

outlined in Paragraph 2. All deliverables listed within the Work Plan shall be submitted with the Final Completion Report unless a new deliverable due date was approved by the DWR Grant Manager.

Deliverables:

- EIF
- Deliverable due date schedule
- Quarterly Progress Reports, Quarterly Invoices, and all required backup documentation
- Draft and Final Component Completion Reports
- Draft and Final Grant Completion Reports

## **COMPONENT 2: ONGOING MONITORING AND ENHANCEMENTS**

Component 2 will enhance the entire Basin's monitoring network by installing a minimum of 4 piezometers and installing a minimum of 4 dedicated monitoring wells, implementing Data Management System (DMS) enhancements, monitoring groundwater levels and quality, and data collection for 2 stream gauges. Additionally, this component will help the Grantee collect data to ensure accurate and informed decision-making within the basin to reach sustainability and provide equitable management for interested parties and groundwater users.

### **Category (a): Component Administration**

Not applicable to this Component

### **Category (b): Environmental / Engineering / Design**

#### **Task 1: Landowner Access Agreement/Site Access**

Acquire landowner access agreement(s) required to install monitoring wells and piezometers, if applicable. Any access agreements obtained pursuant to this Agreement shall allow for adequate access for construction and maintenance of the well for the Term of the this Agreement as set forth in Paragraph 2.

Deliverables:

- Landowner access agreement(s)

#### **Task 2: Monitoring Well and Piezometer Planning**

Conduct planning and design activities associated with the monitoring well and piezometer installation within the Basin. Perform a technical assessment of potential monitoring well and piezometer locations, associated costs, and landowner participation to determine the number and location of monitoring wells and piezometers to be installed, as well as the number of completions to be included in each monitoring well.

Acquire necessary permits required for the installation of the wells and piezometers. Prepare the required CEQA documentation.

Deliverables:

- Map of approved locations for monitoring wells and piezometers
- 100% Design, plans and specifications, if applicable
- Awarded contracts, if applicable
- Required environmental documentation for CEQA compliance, if applicable
- Copies of required permits, if applicable

### **Category (c): Implementation / Construction**

#### **Task 3: Monitoring Well and Piezometer Installation**

Install the monitoring wells and piezometers identified in Task 2. Develop all necessary pre-bid and bid documents to secure a contractor and award the contract. Submit the Notice to Proceed. Photo-document pre-,

during, and post-construction activities and develop a daily construction diary. Prepare any change orders and provide summaries of the change orders in the associated quarterly Progress Reports. Review and submit the record drawings to the DWR Grant Manager.

Deliverables:

- Well installation report(s)
- Bid document(s), if applicable
- Notice of Award, if applicable
- Notice to Proceed, if applicable
- Photo documentation included within the quarterly Progress Reports

**Category (d): Monitoring / Assessment**

**Task 4: Data Management System (DMS) Enhancements**

Complete enhancements to the DMS. Upgrade the DMS to produce reports for critical sustainability indicators for regular monitoring of the Basin and viewing of the current status of Basin sustainability by interested parties. Update well site information fields to allow for entry of minimum thresholds and measurable objectives into the DMS, develop logic to compare the current water levels for each well to sustainability criteria, and develop a user interface.

Deliverables:

- Link to DMS hosted on the **XXGSA** website

**Task 5: Groundwater Levels and Quality Monitoring**

Collect groundwater level data and quality to help assess groundwater conditions in the basin, help fill data gaps, provide a baseline constituent level in all groundwater quality representative monitoring network locations, detect changes in groundwater quality. Monitor groundwater levels on a quarterly basis and groundwater quality will be monitored for Total Dissolved Solids (TDS) annually at existing monitoring locations for a minimum of three (3) years. Complete a one-time test of groundwater for nitrate and arsenic at existing monitoring network locations.

Deliverables:

- Groundwater Conditions Report
- Monitoring Plan
- Groundwater Level Data

**Task 6: Stream Gauge Maintenance**

Work with the United States Geological Survey (USGS) for two (2) surface flow gauges, including data collection and management for three years. Publish the associated data to the public National Water Information System (NWIS) website.

Deliverables:

- Link to gauge height and discharge data available at USGS website
- Technical Memo

**Category (e): Engagement / Outreach**

Not applicable to this Component

**COMPONENT 3: PROJECT AND MANAGEMENT ACTION IMPLEMENTATION**

Component 3 consists of activities to support implementation of project and management actions that were identified in the GSP. More specifically, Component 3 includes updating and calibrating the **XXXX** Basin Water

Resources Model (XBWRM) , developing and implementing framework for pumping allocations, analysis of water management action implementation options, providing adaptive management support, performing a precipitation enhancement technical analysis, and performing a technical analysis of flood and stormwater capture for the Basin.

**Category (a): Component Administration**

Not applicable to this Component

**Category (b): Environmental / Engineering / Design**

Not applicable to this Component

**Category (c): Implementation / Construction**

Not applicable to this Component

**Category (d): Monitoring / Assessment**

**Task 1: Cuyama Basin Water Resources Model (CBWRM) Update and Re-Calibration**

Update the XBWRM parameter values and calibration using new data to better represent the aquifer's water budget to improve understanding of underground geology, future refinements to the hydrogeologic conceptual model, and help identify potential areas for recharge. Incorporate data from DWR's airborne electromagnetic (AEM) surveys to integrate basin-specific and cross-basin geophysical data. Address potential model limitations identified in the GSP, including the need for additional hydrogeological conceptualization and incorporating future data into model calibration.

Deliverables:

- Presentation materials on XBWRM update included in Grantee's Board and Standing Advisory Committee (SAC) packets

**Task 2: Analysis of Water Management Action Implementaiton Options**

Simulate a minimum of 3 options/scenarios using XBWRM to analyze varying levels of pumping reductions and options for revised management area boundaries.

Deliverables:

- Presentation materials on XBWRM modeling results included in Grantee's Board and SAC packets

**Task 3: Develop and Implement Framework for Pumping Allocation**

Develop a system for pumping allocations, tracking, and management to effectively manage reduction in groundwater pumping and manage Basin water supplies. Revise the sustainable yield and develop an approach to allocate the sustainable yield of native groundwater to users, and develop a timeline for pumping reductions to achieve allocations over time.

Deliverables:

- Technical Memo

**Task 4: Adaptive Management Support**

Perform evaluation and develop approaches for responding to adaptive management triggers identified in the GSP. Support the evaluation of whether groundwater levels and/or quality are trending towards undesirable results, investigating the causes, and recommending and implementing appropriate actions.

Deliverables:

- Technical Memo

**Task 5: Precipitation Enhancement Technical Analysis**

Perform a technical analysis to assess the viability of potential future precipitation enhancement actions. Develop a cost/benefit analysis and recommendation for future action on this project using new data and information, including data collected through other project tasks and a previous feasibility study.

**Deliverables:**

- Technical Memo

**Task 6: Technical Analysis of Flood and Stormwater Capture**

Perform a water rights analysis to understand the legal implications of potential flood and stormwater capture projects. Improve the understanding of the availability of water for potential diversions.

**Deliverables:**

- Technical Memo

**Category (e): Engagement / Outreach**

Not applicable to this Component

**COMPONENT 4: GSP IMPLEMENTATION, OUTREACH AND COMPLIANCE ACTIVITIES**

Component 4 includes continued program management for GSP implementation activities, continued stakeholder engagement and community outreach, the preparation of annual reports, modifying the GSP to respond to the DWR determination letter, and preparing the five-year GSP update.

**Category (a): Component Administration**

Not applicable to this Component

**Category (b): Environmental / Engineering / Design**

Not applicable to this Component

**Category (c): Implementation / Construction**

Not applicable to this Component

**Category (d): Monitoring / Assessment****Task 1: Prepare Annual Reports**

Prepare a minimum of three (3) annual reports, as required by DWR, during the life of the grant, consisting of the following sections: Executive Summary, Introduction, Updated Groundwater Conditions, Water Supply and Use, and Plan Implementation Status.

**Deliverables:**

- Annual Reports

**Task 2: Modify GSP in Response to DWR Determination**

Modify the GSP in response to DWR's determination letter, provided by DWR in January 2022. Include coordination and technical support to respond to DWR's requests in a timely, organized, and adequate manner, including coordination calls with DWR representatives and developing written responses to comments on the GSP provided by DWR.

**Deliverables:**

- Amended GSP submitted to DWR

**Task 3: Five-Year GSP Update**

Develop an updated version of the GSP for submittal to DWR in January 2025, as part of the required 5-year update.

**Deliverables:**

- Updated GSP submitted to DWR

**Category (e): Engagement / Outreach****Task 4: GSP Implementation Program Management**

Oversee project and management action implementation, including coordination among the Grantee and interested parties, coordination of GSA implementation technical activities, oversight and management of consultants and subconsultants, budget tracking, schedule management, and quality assurance/quality control of project implementation activities. Conduct administration of an annual extraction fee to provide for Grantee funding, including tracking of pumping amounts and ongoing administration costs related to the extraction fee.

**Deliverables:**

- Board Meeting minutes
- Annual Groundwater Extraction Fee Report

**Task 5: Stakeholder Engagement and Community Outreach**

Perform public engagement at public bi-monthly Grantee Board meetings and bi-monthly SAC meetings, where feedback and participation is welcomed. Inform interested parties about implementation progress through continued GSP-related outreach, relevant reports, and data. Present public information related to the grant's technical tasks at each Board and SAC meeting that occurs during the course of completion of the grant activities.

Update the Grantee website, including hosting services and uploading of website content as needed and ongoing communication with Basin interested parties. Provide regular updates on grant implementation activities via the XXXX Basin newsletter, typically distributed to interested parties on an annual basis. Perform targeted outreach to domestic well owners who may be affected by GSP management actions, including a public workshop for local stakeholders.

**Deliverables:**

- XXXX Basin Newsletter
- SAC Meeting minutes
- Workshop agenda and presentation materials

**COMPONENT 5: IMPROVING UNDERSTANDING OF BASIN WATER USE**

Component 5 includes the development of an updated satellite-based survey of basin-wide land use from 2021 to better understand current and cyclical land use trends, as well as to improve estimation of water use in the Basin. The usefulness and importance of the data collected and processed would help with the implementation of Components 3 and 4. This component also helps the Grantee make informed management decisions and conduct Basin management activities in an equitable manner.

**Category (a): Component Administration**

Not applicable to this Component

**Category (b): Environmental / Engineering / Design****Task 1: Landowner Access Agreement(s) for Weather Stations**

Acquire access agreement(s) required to install weather stations, if applicable. Any access agreements obtained pursuant to this Agreement shall allow for adequate access for construction and maintenance of the weather stations for the Term of the this Agreement as set forth in Paragraph 2.

**Deliverables:**

- Access Agreement(s)

**Task 2: Weather Station Planning**

Conduct planning and design activities associated with the California Irrigation Management Information System (CIMIS) weather station installation within the XXXX Valley Basin. Develop planning and design documents necessary to update the existing weather station, working with landowners to identify locations of and installation of new weather stations in the Basin, as well as associated environmental permits and completion of CEQA documentation, as required. Acquire necessary permits required for the installation of the CIMIS weather stations. Prepare CEQA documentation.

**Deliverables:**

- 100% Design, plans and specifications, if applicable
- Awarded contracts, if applicable
- Required environmental documentation for CEQA compliance
- Copies of required permits and access agreements
- Health and Safety Plan, if applicable

**Category (c): Implementation / Construction****Task 3: Enhance Existing CIMIS Station and Implement New Stations**

Install new stations, which may be full CIMIS stations (providing the full range of climatological data), or stand-alone stations for recording temperature and precipitation. Decide the type, number and locations of newly installed stations based on a technical assessment (performed in Task 2) of potential benefits and on the availability of willing landowners to host the stations and to provide the necessary acreage. Develop a minimum of two (2) new CIMIS stations; however after the technical assessment is performed it may be determined that fewer CIMIS stations are desirable or feasible, and these will be replaced by stand-alone weather stations. Install new CIMIS stations using design plans developed for each location.

**Deliverables:**

- Photo-documentation of pre-, during, and post-construction activities included within the appropriate quarterly Progress Reports
- Certification of completion letter(s)

**Category (d): Monitoring / Assessment****Task 4: Perform Updated Land Use Survey**

Develop an updated satellite-based survey of basin-wide land use to better understand current and cyclical land use trends, as well as to improve estimation of water use in the Basin. Conduct data collection using satellite and remote sensing techniques supplemented by local landowner and stakeholder information. Develop continuous cropping data reflecting representative historic Basin-wide land use. Compare these land use estimates to land use information provided by Basin landowners for consistency and used to update the comprehensive Basin-wide dataset.

Deliverables:

- Technical Memo

**Task 5: Perform River Channel Survey**

Perform a technical assessment to identify the areas of the river that would be surveyed to provide the greatest benefits in understanding XXXX River flow and seepage. Perform the river channel survey using drone technology. Conduct the survey over a minimum of four (4) miles of the river, either continuous or in separate stretches. Digitize and incorporate the results of the survey into future updates of the XXXX Basin Water Resources Model.

Deliverables:

- Technical Memo

**Category (e): Engagement / Outreach**

Not applicable to this Component