**Key components for Butte Valley Implementation Grant**

Component 1: Grant Administration — ***Estimated Budget: 10% of total grant amount***

Component 2: SGMA Compliance and GSP Updates— ***Estimated Budget:* $*1,458,0000***

Component 3: Fee Study, Economic Analysis Water Market Analysis— ***Estimated Budget:* $4*00,000***

Component 4: Well Inventory — ***Estimated Budget:* $*300,000***

Component 5: Voluntary Well Metering Program — ***Estimated Budget:* $*600,000***

Component 6: Monitoring Network, Weather Station Data — ***Estimated Budget:* $*500,000***

Component 7: Irrigation Efficiency and Water Conservation Projects— ***Estimated Budget:* $*1,000,000***

Component 8: Groundwater Recharge Planning Project — ***Estimated Budget: $500,000***

Component 9: Juniper Removal Evaluation — ***Estimated Budget: $500,000***

**Total $*5,258,000 +* $525*,800 (grant admin) = $5,783,800***

**Component 1- GRANT ADMINISTRATION**

**Component 2- SGMA COMPLIANCE AND GSP UPDATES**

* Comments from DWR
* Reporting- annual and 5-year update
* Model updates and scenario evaluation
* Data gap analysis and monitoring network updates (includes water quality monitoring network development)
* Data management system
* Stakeholder outreach

**Component 3- FEE STUDY, ECONOMIC ANALYSIS, AND WATER MARKET ECONOMIC ANALYSIS**

* Evaluation of fee/ rate options
* Update of parcel-specific database of groundwater use and supply
* Development of fee/ rate schedules to fund costs of implementation of the GSP and ongoing administration of the GSA
* Completion of a hydro-economic analysis of the value of irrigation water as a function of crop type and water needs
* Planning and development of water market
* Stakeholder outreach/ community engagement

**Component 4- WELL INVENTORY**

* Inventory development
* Collect missing information (well depth, well logs, etc)
* Database development
* Monitoring well instrumentation

**Component 5 – VOLUNTARY WELL METERING PROGRAM**

* Stakeholder outreach/ community engagement
* Well instrumentation
* Construction and monitoring
* Data Analysis

**Component 6 – MONITORING NETWORK AND IMPROVED UPPER- WATERSHED WEATHER STATION DATA**

* Finalize GSP monitoring network and address data gaps outlined in the GSP.
* Sampling schedules coordinated with local agencies
* Sampling and monitoring (water quality, groundwater levels, other needed parameters)
* Data Analysis
* Coordination with landowners for weather station placement
* Site assessment and approval
* Stakeholder outreach/ community engagement

**Component 7 – IRRIGATION EFFICIENCY AND WATER CONSERVATION**

* Ranch assessment: to be completed by UCCE (2023-2025)
* Identification of locations pilot projects
* Pilot installation (2025-2026)
* Monitoring to demonstrate benefit and water savings
* Stakeholder outreach

**Component 8 –GROUNDWATER RECHARGE PLANNING PROJECT**

* Assessment of potential sites for groundwater recharge potential, particularly for GDEs.
* Permitting and environmental documentation (i.e., applications for diversion permits)
* Monitoring well instrumentation and instream flow station installation
* Monitoring at potential sites to fill data gaps in surface water flow and groundwater levels.
* Monitoring (biological, benefits to groundwater levels and streamflow)
* Data analysis
* Stakeholder outreach- includes annual diversion report.

**Component 9 – JUNIPER REMOVAL EVALUATION**

* Site selection from existing locations and planned tree removal projects through cooperation with local agencies (existing juniper removal projects)
* Permitting
* Tree removal
* Develop monitoring well network to assess impact of project and benefit to GDEs
* Data Analysis