**Key components for Shasta Valley Implementation Grant**

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

Component 2: SGMA Compliance and GSP Updates— ***Estimated Budget:* $*1,608,0000***

Component 3: Fee Study and Economic Analysis — ***Estimated Budget:* $*200,000***

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

Component 5: Groundwater- Surface Water Connectivity Study — ***Estimated Budget:* $*550,000***

Component 6: Irrigation Efficiency and Water Conservation Projects— ***Estimated Budget:* $*1,000,000***

Component 7: Recharge Feasibility Study— ***Estimated Budget:* $*450,000***

Component 8: Grenada Irrigation District— ***Estimated Budget: $1,870,000***

Component 9: Upland Management ***Estimated Budget:* $*400,000***

**Total $*6,478,000 +* $647*,800 (grant admin) = $7,165,800***

**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 AND 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
* 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- GROUNDWATER- SURFACE WATER CONNECTIVITY STUDY**

* Goal- help identify GDEs and impact from pumping on surface water
* Permitting and environmental documentation
* Monitoring well instrumentation and instream flow station installation (construction)
* Pump tests of wells, data collection
* Data Analysis – time series, heat map with wells and areas of high impact
* Stakeholder outreach- includes final report with findings

**Component 6- 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 7- RECHARGE FEASIBILITY STUDY**

* Pilot studies at two target locations to quantify benefits from recharge
* Permitting and environmental documentation
* Goal of this component is to demonstrate and quantify benefits of groundwater recharge to groundwater levels and flow sin the Shasta River at two locations, and gain understanding of the amount and timing of groundwater recharge
* Analysis of collected data and final report of study findings
* Stakeholder outreach

**Component 8- GRENADA IRRIGATION DISTRICT**

* Study to assess conjunctive use
* Monitoring network development (well instrumentation, piezometer transect construction)
* Permitting and environmental documentation (permit application for recharge)
* Efficiency improvement study of GID water system – recommendations on reductions in water losses

**Component 9- UPLAND MANAGEMENT- JUNIPER REMOVAL**

* Goal of this component is to demonstrate and quantify benefits to groundwater or streamflow from existing or planned upland management projects in the watershed, specifically juniper removal.
* Analysis and monitor contribution from the watershed into the groundwater basin
* Monitor and demonstrate benefits of existing upland management projects
* Stakeholder outreach