

## Exhibit A

### WORK PLAN

**Project Title:** Sierra Valley GSP Implementation and Planning (Project)

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#### **COMPONENT 4: IRRIGATION EFFICIENCY AND CONJUNCTIVE USE**

Component 4 seeks to enhance current efforts to increase the irrigation efficiency of agricultural operations, enhance water conservation and conjunctive use within the SV Subbasin while maximizing farm profitability and the regional economy. It addresses a Tier 1 (Existing or Ongoing Project and Management Action [PMA]). Improved irrigation efficiencies will reduce recoverable losses (e.g., tailwater and deep percolation) and irrecoverable losses (e.g., transpiration, evaporation and wind drift), which will result quantifiable reductions in groundwater pumping. Reduced irrecoverable losses will help sustain groundwater levels and storage.

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

[No changes to this section.]

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

Not applicable to this component.

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

Conduct a preliminary set of projects at two to three identified sites based on the ranch assessments and improve data collection. Install inline totalizing flow meters and soil moisture sensors for two to three sites. Retrofit center pivots at the demonstration sites with [low elevation precision application \(LEPA\)-high-efficiency irrigation](#) systems.

Summarize construction activity in the quarterly Progress Reports including descriptions of any change orders. Photo-document pre-construction, construction activities log, and post-construction site conditions to include in the associated quarterly Progress Reports. ~~Conduct an inspection of the completed Component by a licensed professional~~

Based on the results of the farm assessments and demonstration projects, work with willing ranchers to increase agricultural irrigation efficiencies by approaches including but not limited to: reducing sediment accumulation on sprinkler heads, reducing leakage, installing soil-moisture sensors, replacing sprinkler heads with high-efficiency heads, and/or other appropriate improvements that advance groundwater sustainability. Implementation will involve purchasing and installing equipment and materials related to improving agricultural irrigation efficiency. These purchases for ag irrigation efficiency improvements will not include materials related to routine operation and maintenance of irrigation systems.

#### Deliverables:

- Technical memorandum summarizing participating irrigators, lessons learned, and incorporated strategies
- Inventory of equipment and materials purchased
- Summaries of activities and photo documentation pre-construction, construction and post construction to include in the associated quarterly Progress Reports
- Inspection Reports

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

##### Task 1: Identify Sites for Demonstration Program and Collect Baseline Monitoring Data

Host an irrigator workshop to explain the program and recruit participants. Conduct ranch assessments.

#### Deliverables:

- [UCCE-An](#) Efficiency Report [and Recommendations](#) for [each](#) participating ranches

- Technical memorandum summarizing ~~identification criteria~~ [basin-wide irrigation efficiency improvement recommendations](#).

#### Task 2: Monitoring Data Collection

Collect data regarding: irrigation losses, water quality benefits, shallow and deep aquifer effects, maintenance requirements for center pivots with [LESA/LEPA high-efficiency](#) systems, crop production impacts, and benefits to GDEs.

#### Deliverables:

- Technical memorandum summarizing collected data

#### Task 3: Annual Reporting

Monitor site progress and summarize collected data in Annual Progress Reports. Prepare a final report summarizing results, outreach efforts, installation costs, operating costs, and recommendations for next steps.

#### Deliverables:

- Annual Demonstration Project Progress Reports
- Demonstration Project Final Report

#### Task 4: Evaluation of Feasibility and Transferring of Water Rights

Evaluate the potential to transfer water rights from Lake Davis to Frenchman Lake to provide additional surface water for irrigation. Identify the permits and other justifications needed to facilitate the revision.

#### Deliverables:

- Report summarizing feasibility of water rights transfer
- Technical memorandum summarizing impacts of water rights transfer

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

Provide outreach to irrigators to convey information on irrigation efficiency methods, assessment opportunities, different Demonstration Programs, and other opportunities to improve irrigation efficiency. Conduct an initial workshop with irrigators to gather volunteers for the [UCCE](#) ranch assessments; a workshop after the first year to present preliminary results and identify additional ranches to participate; and a final workshop to present results, discuss benefits, suggest possible future projects.

#### Deliverables:

- Meeting agendas and minutes
- All outreach materials
- Technical memorandum summarizing lessons learned