

## Attachment 3 - Workplan

**PROJECT:** Adams and Academy Basin

**IMPLEMENTING AGENCY:** Consolidated Irrigation District

**PROJECT DESCRIPTION:** Development of a 50-acre recharge and banking facility near the Disadvantaged Community of Parlier that will provide more than 2,200AF/yr of recharge, and develop a dry-year supply of 1,320AF/yr.

This workplan was developed based on Consolidated Irrigation District's knowledge of the project and past experience with a similar project funded under DWR IRWM Implementation Round 1 funding. This workplan:

- Identifies the tasks required to complete the project and a description of the task (Question 15, Final PSP).
- Includes the status of the work that has been completed to date (Question 16).
- Lists the required permits and their status, and the appropriate environmental documentation for the proposed project and their status (Question 17).
- Is consistent with the tasks shown in the budget and schedule (Questions 18 and 20).
- Includes sufficient detail to demonstrate the project schedule can be met (Question 23).

### **Category A – Direct Project Administration**

**Task 1 Administration.** This task includes the project administration related work involved in the development of the project, such as grant application preparation, meetings, coordination with stakeholders, and overall project coordination.

Deliverables:

- Meeting minutes
- Meeting presentation materials if required.

Status (12% Complete):

- Work associated with this task is associated with grant administration if selected. Percent complete includes the grant application preparation already completed and included in this task.

**Task 2 Labor Compliance.** This task includes enforcing a labor compliance program pursuant to California Labor Code and applicable laws utilizing a 3rd third party labor compliance officer to develop the program and perform the required workplace inspections, reviews, and reporting during construction. The District prepared and received approval of their Labor Compliance Program in September 2011 (see **Attachment 3c**), so no work to adopt a Labor Compliance Program is required.

Deliverables:

- Labor Compliance Program
- Labor Compliance documentation during construction

Status (0% Complete):

- Labor Compliance documentation will not begin until construction begins.

**Task 3 Reporting.** This task includes the following subtasks:

**Subtask 3.1: Quarterly Progress Reports.** Quarterly progress reports and invoices will be prepared in accordance with DWR requirements.

**Subtask 3.2: Draft and Final Project Report.** A draft and final project report will be prepared in accordance with DWR requirements. The project draft report will be submitted to DWR for review and comment; once the comments are received and incorporated, the final report will be prepared and submitted.

Deliverables:

- Quarterly Progress Reports and Grant Invoices
- Draft and Final Grant Summary Report

Status (0% Complete):

- This task will not begin until a grant is awarded and a signed grant contract completed.

## **Category B – Land Purchase / Easement**

**Task 4 Land Acquisition.** This task includes purchase of the land needed for the recharge basin (approximately 50 acres) through the following subtasks:

**Subtask 4.1: Execute Option on Property.** Work under this subtask has been completed (see **Attachment 3a**).

**Subtask 4.2: PTR and Appraisal.** An updated preliminary title report and appraisal will be obtained.

**Subtask 4.3: Land Purchase/Close Escrow.** Purchase of the property will be finalized through escrow with the title company as detailed in the signed option agreement (**Attachment 3a**).

Deliverables:

- Executed Option on Property (see **Attachment 3a**)
- Preliminary Title Report and Appraisal
- Copy of Final Deed to Property once purchased

Status (50% Complete):

- The landowner and the District have negotiated and agreed to purchase terms. The District plans to extend the option as outlined in the terms of the agreement, and upon confirmation of the grant award, the District will enter escrow and finalize the purchase of the property.

## **Category C - Planning/Design/Engineering/Environmental Documentation**

**Task 5 Assessment and Evaluation.** This task includes further development of the Adams and Academy Groundwater Monitoring Plan that will be based on a groundwater monitoring network around the proposed basin. Further development of the network will include contacting landowners, review of driller's reports, investigation of suitability for wells for accessibility and on-going monitoring, topographic and boundary survey, survey of wellhead elevation, and collection of baseline water level and quality data. The work to be completed under this task will be completed through the following subtasks:

**Subtask 5.1: Feasibility Study and Preliminary Design.** A project feasibility report evaluating the project and determining the projects potential yield was developed in 2013 and 2014. The study included preliminary design plans and specifications (see **Attachments 3b, 3e and 3f**).

**Subtask 5.2: Baseline Groundwater Network Development.** A monitoring network will be developed and baseline water level and quality conditions determined. Well logs will be obtained and reviewed, landowner contact made, wells inspected and surveyed, and level measurements and samples taken for quality testing. The monitoring network is expected to include existing wells in the vicinity as well as new dedicated monitoring wells. The Basin Groundwater Monitoring Plan will be structured similar to the plan prepared for the District's South and Highland Basin (table of contents included as **Attachment 3d**).

**Subtask 5.3: Surveying.** Conduct a topographic and boundary survey of the property in support of Task 6.

Deliverables:

- Project Groundwater Monitoring Plan, including baseline water level and water quality testing

Status (66% Complete):

- The Feasibility Study and Preliminary Plans and Specifications (**Attachments 3e and 3f**) are complete; the remaining work will be performed in the coming months.

**Task 6 Final Design.** This task includes development of the final design plans and specifications for the project. The Basis of Design will be updated as required during final design preparation. The design plans will include adequate detail for construction, and will be similar to the final design plans and specifications recently used for successful construction of the District's South and Highland Basin that was also partially funded through a DWR IRWM grant. Four separate bid document sets are anticipated including: Earthwork and Structures, Monitoring Well Construction, Recovery Well drilling and development, and Recovery Well Equipping. Bid Documents will include plans, specifications and an Engineer's Opinion of Probable Construction Cost (Estimate). This task will include the following subtasks:

**Subtask 6.1: Geotechnical Investigation.** A geotechnical investigation of the property will be conducted to provide basin levee, and facility excavation, backfill and compaction information needed for design and construction documents.

**Subtask 6.2: Earthwork and Structures Documents.** Final construction documents for the Earthwork and Structures portions of the project will be prepared. The Earthwork and Structures plans will include construction of basin levee keyway and embankments, canal turnout (diversion structure), basin diversion piping, flow measurement structures, basin outfall structures, canal outfall structure from the well, and basin fencing.

**Subtask 6.3: Monitoring Well Documents.** Final construction documents for the Monitoring Well portion of the project will be prepared. Monitoring well design will include initial siting, determination of dimensions, materials, and perforated intervals. Up to three new monitoring wells will be constructed based on the recommendations from Task 5.

**Subtask 6.4: Recovery Well Documents.** Final construction documents for the Recovery Well portion of the project will be prepared. The Recovery Well Drilling and development bid documents will include test hole drilling, geologic logging, e-log testing, and installation of well casing, perforated casing and well development.

**Subtask 6.5: Well Equipping Documents.** Final construction documents for the Well Equipping portion of the project will be prepared. The Well Equipping bid documents will include installation of the Recovery Well pump and motor, discharge piping, metering, and electrical and telemetry equipment.

Deliverables:

- Geotechnical Report
- Earthwork and Structures Bid Documents
- Recovery Well Development Bid Documents
- Well Equipping Bid Documents
- Monitoring Well Bid Documents

Status (0% Complete):

- Work under this task will be initiated in October 2015, and is based on the Preliminary Plans and Specifications (**Attachments 3e and 3f**) that were prepared under Task 5.1.

**Task 7 Environmental Documentation.** This task includes preparation of a CEQA Initial Study, performing the necessary biological surveys including plant and animal surveys as well as identifying the potential for endangered species, cultural resources survey and other pertinent studies as identified in the initial study. Draft CEQA documents will be developed, noticed, circulated and made available for public comment. A public hearing will be held before the District's board. Comments will be addressed, final CEQA documents will be adopted by the Board of Directors and a Notice of Determination filed. Since the project is not planned to involve Federal monies, or a Federal decision, NEPA is not expected to apply.

Deliverables:

- Draft and Final CEQA Documents, including Initial Study and Mitigation Monitoring and Reporting Plan (MMRP)
- Notice of Determination

Status (0% Complete):

- Preliminary review of the California Natural Diversity Database (CNDDDB) has been reviewed, but work on the task described has not been initiated. The District anticipates starting work on this task prior to grant award determination.

**Task 8 Permitting.** This task includes preparation of the required permits to construct the project. The permits anticipated include Fresno County Plan review, San Joaquin Valley Air Pollution Control District – Regulation VIII Permit (Dust Control Plan) and Rule 9510 (Indirect Source Review), PG&E Electrical Service, and State Water Resources Control Board – 2009-0009-DWQ Construction General Permit (Storm Water Pollution Prevention Plan).

Deliverables:

- SJVAPCD Indirect Source Review
- SJVAPCD Dust Control Plan
- PG&E Electrical Service
- SWRCB Construction General Permit

Status (0% Complete):

- Preliminary research on the permit requirements has been completed under the Feasibility Study (**Attachment 3b**), and is known from the recently completed similar project by the District. Preparation of the actual permits as described in this task has not been initiated.

## Category D – Construction / Implementation

**Task 9 Construction Contracting.** This task includes four subtasks:

**Subtask 9.1: Earthwork and Structures Bidding**

**Subtask 9.2: Monitoring Well Bidding**

**Subtask 9.3: Recovery Well Bidding**

**Subtask 9.4: Well Equipping Bidding**

These four subtasks are similar and include the following items for each relative item of work: public bid advertisements, pre-bid meetings, answering questions during the bidding process, and evaluating submitted bids for each of the four bid documents. This task also includes preparation of a notice of award and a notice to proceed to the selected contractors. A bid canvass summarizing each bid will be prepared.

Deliverables:

- Bid Advertisement for each set of construction bid documents (4 separate bidding phases)
- Bid Canvasses for each set of construction bid documents (4 bid canvasses)

Status (0% Complete):

- This task will not be initiated until after Task 6 is complete.

**Task 10 Construction.** This task includes four subtasks:

**Subtask 10.1: Earthwork and Structures Construction**

**Subtask 10.2: Monitoring Well Construction**

**Subtask 10.3: Recovery Well Construction**

**Subtask 10.4: Well Equipping Construction**

These four subtasks are similar and include construction of the facilities designed as part of the project, in accordance with the bid documents and applicable state and local standards. It is anticipated that the project will be constructed using four separate contractors in accordance with the four bid document sets. Construction is bid in this manner because of the type of contractors with specific experience in these areas, and has proven to provide the District with better construction control of the quality, cost and schedule for construction. The Contractors will be required to obtain an Encroachment Permit from the County of Fresno (see **Attachment 3g**).

Deliverables:

- County of Fresno Encroachment Permit
- Construction of the Planned Improvements as per the Bid Documents

Status (0% Complete):

- This task will not be initiated until Bidding is complete.

**Task 11 Environmental Compliance.** This task includes mitigation of any potential disturbance or impacts to protected species or communities, although it is not anticipated to be necessary. These mitigation measures will be developed and implemented in accordance with Federal and State law and the environmental documentation prepared in Task 7, detail above.

Deliverables:

- Listing/Report of protective measures required and Implementation Status (if required)

Status (0% Complete):

- This task will not be initiated until construction is initiated

**Task 12 Construction Administration.** This task includes five subtasks; the first four subtasks are:

**Subtask 12.1: Earthwork and Structures Construction Observation**

**Subtask 12.2: Monitoring Well Construction Observation**

**Subtask 12.3: Recovery Well Construction Observation**

**Subtask 12.4: Well Equipping Construction Observation**

These four subtasks are similar and include construction administration and observation efforts for their respective construction phase. The construction inspector duties include periodic visits to the project site during construction, organize and attend kickoff meetings, periodic meetings with contractors, submittal review, monthly payment requests, and contract change orders requests. A final inspection will be performed to ensure the project was constructed in compliance with the plans and specifications.

**Subtask 12.5: Record Drawings.** Record drawings will be prepared for the project.

Deliverables:

- Construction observation reports
- Submittals
- Progress payments
- Change orders
- Record drawings

Status (0% Complete):

- This task will not be initiated until construction is initiated