

# Attachment 4 - Work Summary

## Introduction

Attachment 4 contains brief summaries of the anticipated tasks necessary to complete each project included in the Proposal. The project work summaries also identify the anticipated deliverables and current status of each task, and demonstrate that the majority of the projects will be ready for construction and implementation by April 1, 2015. The tasks shown are consistent with tasks discussed in Attachment 5 - Budget Summary and Attachment 6 - Schedule Description. Required permits and environmental documentation are also listed by project, if applicable.

## Project Work Summaries

### *Project 1: Lower American River Pipeline*

**Implementing Agency:** Carmichael Water District (CWD)

#### **Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Labor Compliance Program (LCP) implementation

**Current Status:** 0% complete. Task to commence with Construction Contracting.

**Deliverables:** Monthly Certified Payroll Reports

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

#### **Category (b): Land Purchase/Easements**

**Task:** Easement and Property Lease Acquisition – This project will require a temporary construction easement in one property and a temporary and permanent easement in a second property on the north side of the American River. The project will also require procurement of a lease agreement or easement from Sacramento County for construction of the pipeline within the American River Parkway.

**Current Status:** 20% complete. Easements have been identified and preliminary discussions with property owners have occurred.

**Deliverables:** Proof of easements and lease agreements

#### **Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** Planning – This task was completed in 2012 deliverables included two technical analyses investigating the feasibility of the project as well as confirming the available capacity of CWD to treat remediated groundwater in the amount of 5,000 AFY at their existing WTP.

**Current Status:** 100% complete.

**Deliverables:** Feasibility and Preliminary design technical memoranda

**Task:** Design/Engineering 30% to 90% Design – This task includes 100% design of the pipeline project including river crossing, north bank and south bank improvements as well as the connecting pipeline and system interconnections to CWD and GSWC. Design has been authorized through the 90% completion level. Final Design – This task includes completion of 100% design and bid-ready plans, specifications, and opinion of probable construction cost for the pipeline project.

**Current Status:** The design is currently 60% complete and 90% design expected to be finalized in September 2014.

**Deliverables:** 30%, 60%, and 90% design submittals, technical specifications and cost estimates

**Task:** Environmental Compliance – The environmental documentation will include preparation of a CEQA initial study/mitigated negative declaration and will be completed by late 2014. It is expected that this work will be contracted to an environmental consulting firm for timely completion.

**Current Status:** 0% complete. This subtask is not started pending completion of 90% design

**Deliverables:** Proof of completion of Initial Study/Mitigated Negative Declaration adoption and publishing Notice of Determination

**Task:** Permitting - The permits anticipated to be necessary for this project, particularly for the river crossing element include:

- RWQCB 401 Water Quality Certification or Waste Discharge Requirement
- State Lands Commission Permit
- Cultural Resource-Submission of Findings to State Historic Preservation Officer
- U.S. Fish and Wildlife Service Section 7 Consultation
- U.S. Army Corps of Engineers – Clean Water Act, Section 404 Permit
- CA Department of Fish and Wildlife Section 1602 Streambed Alteration Agreement
- Central Valley Flood Protection Board Encroachment Permit
- City of Rancho Cordova Encroachment Permit

**Current Status:** 0% complete. Permit acquisition has not started, but is anticipated to begin on or around August 2014. This task also includes procurement of permits required for the project which are expected to be complete on or about July 14, 2015.

**Deliverables:** Proof of completed permits, exemptions or other documentation as appropriate.

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

**Task:** Construction Contracting: This task includes bidding and construction contracting

**Current Status:** 0% complete. Bidding anticipated February 2015.

**Deliverables:** Authorized construction contract and notice to proceed

**Task:** Construction Mobilization and Site Preparation – this work includes mobilization of the contractor to the project site, commencing staging and site preparation activities. It is assumed that the entire project will be bid once but construction sequencing/scheduling will be phased to coincide with permit issuance as previously described. Performance Testing, Startup and Demobilization – Work includes startup, disinfection, pressure testing, and commissioning of the pipeline for potable water service.

**Current Status:** 0% complete. Not started, pending completion of design.

**Deliverables:** Site photos, certification of project completion, record drawings

**Task:** Environmental Compliance and Mitigation – this task will include implementation of any mitigation measures required per completion of the CEQA Initial Study/Mitigated Negative Declaration.

**Current Status:** 0% complete. Not started.

**Deliverables:** To be determined, based on Initial Study/Mitigated Negative Declaration (likely to include monitoring reports during construction)

**Task:** Construction Administration – this task includes construction administration services including onsite inspection, construction management and office engineering. Office engineering work includes processing of submittals, requests for information, change orders, and other construction related documentation.

**Current Status:** 0% complete. Not started.

**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials.

*Project 2: Hazel/50 Intertie Improvements***Implementing Agency:** City of Folsom (Folsom)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** Land already owned by Golden State Water Company, additional land acquisitions/easements not needed**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** Planning includes hydraulic model analysis to determine water availability from Golden State Water Company to Folsom. This would include identifying the pump size and other distribution system concerns from a hydraulic standpoint for both agencies.**Current Status:** 50% Complete**Deliverables:** Hydraulic models, and technical reports**Task:** Design, Engineering, and Environmental work would begin once the hydraulic analysis is complete and would include plans and specifications for bidding and could be completed within three months.**Current Status:** 0% Complete**Deliverables:** Plans and specifications for bidding, design plans**Task:** Environmental work will include an initial study and mitigated negative declaration.**Current Status:** 0% Complete**Deliverables:** Completed Initial Study and mitigated negative declaration,**Category (d): Construction/Implementation****Task:** Permitting will include an encroachment permit (issued by the City of Folsom and possibly the County of Sacramento).**Current Status:** 0% Complete**Deliverables:** Encroachment permit**Task:** Construction and implementation could begin in November/December 2014 and would be operational in January 2015 should the end of 2014 continue to be dry.

**Current Status:** 0% Complete

**Deliverables:** Construction records, approved submittals, change orders, daily inspection reports and related materials.

*Project 3: Well #2 Reactivation***Implementing Agency:** City of Lincoln (Lincoln)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** As a formerly operating Lincoln well, this project include no Land Purchase or Easement Efforts to complete.**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** This project is currently between the 60% and 90% design phase. The Project has been bid on but the bid is a line item type with numerous options as what exactly is built. Lincoln is in the process of deciding what exactly it wants and will complete the design so the contractor can order materials shortly. No permitting required because it is an existing well owned by Lincoln and already permitted by DHS.**Current Status:** 75% Complete**Deliverables:** Completed design work from contractor**Category (d): Construction/Implementation****Task:** Construction and implementation will begin shortly after construction bids are reviewed and confirmed.

Tasks Remaining Include:

- Mobilization/Demobilization
- Sheeting, shoring, and bracing

Submersible pump installation including casing inspection and prep, pump installation, and connection to surface facilities

- Start-up and Testing
- Preparation and Submission of Operations and Maintenance documents
- Preparation and Submission of completed record drawings

**Current Status:** 0% Complete**Deliverables:** Construction records, approved submittals, change orders, daily inspection reports and related materials.

*Project 4: Nelson Well Improvements***Implementing Agency:** City of Lincoln (Lincoln)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** As a formerly operating Lincoln well, this project include no Land Purchase or Easement Efforts to complete.**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** All planning, design, engineering work is complete with no costs to Lincoln to date. No permitting required because it is an existing well owned by Lincoln and already permitted by DHS.**Current Status:** 100% Complete**Deliverables:** Technical Reports**Category (d): Construction/Implementation****Task:** Construction and implementation will begin shortly. All Materials are in the contractor's yard and installation should occur in the next two weeks.

Tasks Remaining Include:

- Mobilization/Demobilization
- Sheeting, shoring, and bracing
- Submersible pump installation including casing inspection and prep, pump installation, and connection to surface facilities
- Start-up and Testing
- Preparation and Submission of Operations and Maintenance documents
- Preparation and Submission of completed record drawings

**Current Status:** 0% Complete**Deliverables:** Construction records, approved submittals, change orders, daily inspection reports and related materials.

*Project 5: PFE & Zone 4 Transfer Pump Stations***Implementing Agency:** City of Roseville (Roseville)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements**

The proposed project will be constructed on existing Roseville owned water facilities. Therefore, no land purchase or additional easement is necessary.

**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** Roseville approved an engineering contract with Bennett Engineering at its 5/14/2014 city council meeting with an amendment approved at its 6/18/2014 meeting. Bennett Engineering has completed a 30% design. The 100% design is underway, and should be completed by Summer of 2014.

At the same city council meeting, the city council received the environmental documentation for a CEQA categorical exemption for the proposed project. The proposed project qualifies for a Class 1 Exemption as described in Section 15301 of the CEQA guidelines which states:

*Class 1 consists of ... minor alteration of existing public ... facilities ... involving negligible or no expansion of use beyond that previously existing ... examples include but are not limited to: (b) Existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage, or other public utility services***Current Status:** 30% Complete**Deliverables:** Final design plans, and processed categorical exemption, building permit, encroachment permit**Category (d): Construction/Implementation****Task:** The project is expected to advertise for bid in late August/September of 2014. Roseville city council is expected to approve a construction contract in late September/October 2014 and construction should proceed immediately.

A building permit and an encroachment permit will be required (both issued by the City of Roseville).

**Current Status:** 0% Complete**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials

*Project 6: Phase 2B Well Rehabilitations***Implementing Agency:** City of Sacramento (Sacramento)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 25% complete. Sacramento is a public agency and is following the California Public Contracts Code regarding labor compliance. Sacramento is in conformance with the DWR requirement.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** No additional land is required as these locations are already owned by Sacramento. The facilities are already list in Sacramento's water supply permit:**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** Planning and design of the improvements is completed.**Current Status:** 100% Complete**Deliverables:** 100% design plans**Task:** Environment documentation is completed. Returning the wells to service is exempt from environmental review under CEQA section 15301 (existing facilities) and 15302 (replacement or reconstruction). Permitting is completed.**Current Status:** 100% Complete**Deliverables:** Processed Categorical Exemption**Category (d): Construction/Implementation****Task:** All bidding and contract approvals are completed**Current Status:** 100% Complete**Deliverables:** Contract Approvals**Task:** Construction is underway and is 25% complete. Approximately half of the wells have already been pump tested and equipment for site improvements is on order, or in the process of being installed. 3 of the 9 wells have not yet been tested for appropriate water quality.**Current Status:** 25% Complete

***Deliverables:*** Pump Test Results for remaining wells

*Project 7: Sacramento River Pump Station Modifications*

**Implementing Agency:** City of Sacramento (Sacramento)

**Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Labor Compliance Program (LCP) implementation

**Current Status:** 30% complete. Sacramento is a public agency and is following the California Public Contracts Code regarding labor compliance. Sacramento is in conformance with the DWR requirement.

**Deliverables:** Monthly Certified Payroll Reports

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

**Category (b): Land Purchase/Easements**

**Task:** N/A Facility is owned by Sacramento.

**Current Status:** N/A

**Deliverables:** N/A

**Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** Planning, engineering, design and environmental tasks have been completed. Permitting has been completed.

**Subtask 1** Ascertain State and Federal projections for reservoir release patterns and how that will affect river elevations. Receipt of forecast is 100% complete; however forecasting hydrologic conditions is an ongoing process. Sacramento receives monthly forecasts for reservoir conditions, river conditions from the State of California/Federal Central Valley Operations Group, whom control release of surface water to the rivers that Sacramento draws from.

**Subtask 2:** Develop understanding of how river elevations below design of the facility (elev. 2 feet) will affect facility performance, and develop solutions to allow for continued operation. 100% complete

**Subtask 3:** Design vortex breakers. 100% complete

**Subtask 4:** Environmental Documentation: 100% complete and inserted to prior technical section

**Subtask 5:** Solicit competitive bids for furnishing and installing pump vibration monitoring equipment: 100% complete.

**Current Status:** 100% Complete

**Deliverables:** Monthly reservoir forecasts, facility performance report, design drawings, environmental documentation, bid solicitation

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

**Task:** Fabrication of vortex breakers.

**Current Status:** 50% Complete

**Deliverables:** Fabricated vortex breakers

**Task:** Install vibration monitoring equipment and vortex breakers on pumps within intake structure.

**Current Status:** 0% Complete

**Deliverables:** Installation of vortex breakers and vibration monitoring equipment

*Project 8: Lower American River Pump Station Modifications***Implementing Agency:** City of Sacramento (Sacramento)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** No land purchase needed. All work to occur on an existing Sacramento facility.**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** Planning, and environmental tasks have been completed. Engineering and design tasks are in progress and are expected to be completed in August 2014. Permits are not required.

**Subtask 4.1** Ascertain State and Federal projections for reservoir release patterns and how that will affect river elevations. Receipt of forecast is 100% complete; however forecasting hydrologic conditions is an ongoing process. Sacramento receives monthly forecasts for reservoir conditions, river conditions from the State of California/Federal Central Valley Operations Group, whom control release of surface water to the rivers that Sacramento draws from.

**Subtask 4.2:** Develop understanding of how river elevations below design of the facility (elev. 12 feet) will affect facility performance, and develop solutions to allow for continued operation. 50% complete

**Subtask 4.3:** Design vortex breakers. 0% complete

**Current Status:** 75% Complete**Deliverables:** Monthly reservoir forecasts, facility performance report, design drawings, environmental documentation, bid solicitation**Category (d): Construction/Implementation****Task:** Solicit competitive bids for furnishing and installing pump vibration monitoring equipment:**Current Status:** 100% complete.**Deliverables:** Qualified and competitive bidder to work with the city to fabricate customized pump vibration monitoring equipment.**Task:** Fabrication of vortex breakers.**Current Status:** 0% Complete

**Deliverables:** Fabricated vortex breakers

**Task:** Install vibration monitoring equipment and vortex breakers on pumps within intake structure.

**Current Status:** 0% Complete

**Deliverables:** Installation of vortex breakers and vibration monitoring equipment

*Project 9: Main Ditch Piping*

**Implementing Agency:** El Dorado Irrigation District (EID)

**Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Labor Compliance Program (LCP) implementation

**Current Status:** 0% complete. Task to commence with construction.

**Deliverables:** Monthly Certified Payroll Reports

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

**Category (b): Land Purchase/Easements**

**Task:** Under funds provided in a separate grant, the District has prepared a map outlining all parcels adjacent to the Main Ditch and performed a limited survey for use in a Basis of Design Report. Property title research is underway to determine easements and ownership. The District will contract the services of a licensed land surveyor to perform a topographic survey that will be used to prepare the detailed design of the project. This task will work to acquire easements for new alignments or where insufficient easements exist.

**Current Status:** 5% Complete

**Deliverables:** Completed easements and ownership identification, topographic survey results, acquire easements

**Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** Planning - One of the early tasks of this project is to estimate the water conservation component for the ditch segment. Flow was and will continue to be measured at the Forebay Reservoir diversion point (gage A18) and at the Reservoir 1 WTP inlet. The flow measurements are remotely monitored by SCADA, and logged at periodic intervals. All outflow connections along the three mile stretch are metered. In addition, water quality sampling was conducted that shows the increase in turbidity, and total coliform, and E-coli as the water travels through the earthen ditch to the Reservoir 1 WTP.

**Current Status:** 40% Complete

**Deliverables:** Water conservation analysis

**Task:** Design/Engineering - A Basis of Design Report is underway which develops the design parameters that identify the piping methods, alignment, recommended materials for construction, and criteria for final design. Project description for CEQA, 30% documents, 50% documents, 90% documents, and final bid documents will be prepared.

**Current Status:** 10% Complete

**Deliverables:** Basis of design report, 30% - 100% design documents, and final bid documents

**Task:** Environmental Documentation: This includes all costs associated with any required documentation of environmental compliance, analyses, permits, or approvals. Completion of some technical studies in advance of

this grant application submittal has allowed the District to offset some costs of environmental and permitting requirements that would otherwise be required of the grant. Permitting requirements are to be determined.

**Current Status:** 25% Complete

**Deliverables:** Completed environmental documentation

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

**Task:** Construction Permitting: Construction permitting is to be determined, but is intended to include normal requirements and performance monitoring and reporting during construction.

**Task:** Construction - This includes the bid process and contractor selection of a licensed contractor. The lowest responsive responsible bid will be recommended to the Board of Directors for award and a contract will be executed. During construction, the following activities will be done: conduct construction meetings, review submittals and requests for information, approve construction change orders, oversee inspection work, periodic site visits, and specialty inspections.

It is anticipated that the piping of the Main Ditch will include the following project components and will be refined with the full design:

- Re-grading and compacting of the ditch bed
- Installation of 15,000 lineal feet of large diameter (36 – 42-inch) pipe
- Installation of appurtenances such as; access manholes, turnouts, meters, valves, etc.
- Relocation of existing storm drain connections
- Improvements to the outlet at Forebay Reservoir
- Improvements to the intake to the Reservoir 1 WTP
- Enhancements to the SCADA system for flow and water quality measurements
- Installation of small-scale in-conduit hydro, where possible

**Current Status:** 0% Complete

**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials

**Task:** Implementation - At the end of construction, flow monitoring and water quality testing will be conducted between Forebay Reservoir and Reservoir 1 and compared to water losses and quality before construction to determine the amount of water conserved and quality improved. This final assessment will be memorialized in a comprehensive report.

**Current Status:** 0% Complete

**Deliverables:** Final comprehensive report

*Project 10: Madison Well Construction***Implementing Agency:** Fair Oaks Water District (FOWD)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 50% complete. FOWD is a public agency and is following the California Public Contracts Code regarding labor compliance. FOWD is in conformance with the DWR requirement.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** The Fair Oaks Water District acquired well site in 2011. The well site is 90 feet by 90 feet and is sufficient for drilling, development and construction of all necessary above ground structures for the operating groundwater well.**Current Status:** 100% Complete**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** The planning, design and environmental review for the proposed well were completed in March of 2014. The contract for well design and environmental review for the proposed well was issued to GEI consultants Inc. on February 3, 2014. Permitting activities are completed.**Current Status:** 100% Complete**Deliverables:** Environmental documentation**Category (d): Construction/Implementation****Task:** The contract for well construction and development was issued to Zim Industries Inc. on April 7, 2014.**Current Status:** 50% Complete**Deliverables:** Construction records, and related materials

*Project 11: American River Pump Station Improvements***Implementing Agency:** Placer County Water Agency (PCWA)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements****Task:** PCWA currently operates an existing pump station where the planned improvements will be installed. No land purchases or additional easements are necessary.**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** Planning/Design/Engineering - The project is nearing design completion. The designer has submitted 50% and 90% design submittals and PCWA has completed review of these submittals. The final design is estimated to be completed by July 21, 2014.**Current Status:** 90% Complete**Deliverables:** Final Design Documents**Task:** Environmental Documentation - Article 19 of the CEQA guidelines lists categorical exemptions from CEQA, Section 15303, New Construction or Conversion of Small Structures, Class 3 consists of construction of a new small facility or structure; installation of small new equipment and facilities in small structures; including utility extensions to serve such construction. This project is consistent with this guideline; therefore it is exempt from CEQA. (CEQA Guidelines Article 19, Section 15303). The Board date to declare the project categorically exempt from CEQA and authorize the Clerk to the Board to file the Notice of Exemption is proposed for August 7, 2014. PCWA routinely prepares and processes exemptions and this timeline is adequate for this project. Permits not required.**Current Status:** 100% Complete**Deliverables:** Processed Categorical Exemption**Category (d): Construction/Implementation****Task:** Bidding and Award -The project will be publicly bid, with construction by a general contractor retained by PCWA.**Current Status:** 0% Complete**Deliverables:** Construction bid award

**Task:** Construction and Close-out - This will include direct labor costs by PCWA to administer and implement the project improvements, construction, and commissioning/closeout. PCWA has entered into an agreement with a Weir Floway Inc. to procure the new 41 cfs pump. Upon bidding and awarding by PCWA to a general contractor, construction of the improvements will begin. The anticipated start of construction is September 2014. Substantial completion is anticipated by March 2015.

**Current Status:** 0% Complete

**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials

*Project 12: Agricultural and Rural Residential Drought Response Incentives Program*

**Implementing Agency:** Placer County Water Agency (PCWA)

**Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

*Note: Labor Compliance Program (LCP) implementation is not included in this budget category, because it is not a construction project.*

**Category (b): Land Purchase/Easements**

**Task:** For this project, land purchase and easements will not be required.

**Current Status:** N/A

**Deliverables:** N/A

**Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** The project is designed to reduce outdoor water use by agricultural and rural residential customers in response to current drought conditions. Planning documents required for implementation have already been prepared by the NRCS and PCWA staff and are in use in current landscape incentive and upgrade projects and the NRCS EQIP program, so no activities will be required under this category. Permits are not required.

**Current Status:** N/A

**Deliverables:** N/A

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

**Task:** The Agricultural Rural Residential Drought Response Program will be implemented by the local resource conservation districts and managed by RWA. Implementation of this project is ready to commence in October, 2014.

For the surveys, incentives and upgrade implementation involves the following tasks:

- Completing irrigation water management surveys and schedule
- Distributing incentives and installing upgrades or plant material replacement
- Tracking water savings and implementation.

Deliverables include irrigation and crop survey documents, including irrigation schedule, number of incentives distributed and amounts, number and type of irrigation equipment installed, number and amount (measured in square feet) of landscapes converted from turf grass to native and low water use landscapes, and water savings estimates.

At the end of the project, a final report will be the final deliverable and will include a summary of all above tasks as well as an overall project evaluation with recommendations to improve similar future programs. This report will be publically available and will be distributed as necessary to allow other region's to adopt the methods and program schedules and modify as they see fit to implement similar effective programs.

**Current Status:** 0% Complete

**Deliverables:** Survey documents, and final project report

*Project 13: Regional Water Efficiency Drought Measures***Implementing Agency:** Regional Water Authority (RWA)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report*Note Labor Compliance Program (LCP) implementation is not included in this budget category, because it is not a construction project.***Category (b): Land Purchase/Easements****Task:** For this project, land purchase and easements will not be required.**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** The project is designed to reduce outdoor water use in response to current drought conditions. The majority of the planning documents required for implementation has already been prepared by local agency and RWA staff and are in use in current landscape incentive and upgrade projects. These documents demonstrate the efficacy of the proposed efficiency measures and were developed based on guidance documents prepared by DWR and the CUWCC. These documents will be used in the implementation of this project as well.

Anticipated tasks include developing additional materials to include cash for grass programs (program requirements, incentive amounts, outreach strategies, release forms, etc.) as an incentive option. A few other innovative incentive/upgrade options may also be included as needed by local agencies to decrease outdoor water demand. An expanded public outreach plan will need to outline key drought outdoor messages, desired media outlets and frequency of ads, expected costs, and supporting events. Permits are not required.

**Current Status:** Relative to the portion of this task associated with a grant award, the task is 0% complete. The task is ready to commence upon award.**Deliverables:** Complete project description, timeline, budget, and all associated materials (forms, releases, outreach plan, etc.) need to effectively manage this project.**Category (d): Construction/Implementation****Task:** The Regional Water Efficiency Drought Measures project will be implemented by local water agencies and managed by RWA. Relative to the portion of this task associated with a grant award, the task is 0% complete. Implementation of this project will begin in December of 2014.

For public outreach (Component 1), implementation involves the following tasks:

- Prioritizing current outdoor drought messaging
- Selecting desired messages
- Securing media ad buys
- Facilitating media outreach activities

- Host supporting public outreach events to further deliver desired messages to customers.

Deliverables include summary of desired outdoor conservation messages, summary of media buys and frequency of distribution, potential number of customers reached, number of events attended and attendance estimates, number of articles, television coverage and press releases issued as a result of media outreach efforts.

For the surveys, incentives and upgrade (Component 2) implementation involves the following tasks:

- Completing landscape water efficiency surveys
- Distributing incentives and installing upgrades
- Tracking water savings and implementation.

Deliverables include: landscape survey documents, number of incentives distributed and amounts, number and type of irrigation equipment installed, number and amount (measured in square feet) of landscapes converted from turf grass to native and low water use landscapes, water savings estimates (collected and estimated for a 3 year implementation period after installation).

At the end of the project, a final report will be the final deliverable and will include a summary of all above tasks as well as an overall project evaluation with recommendations to improve similar future programs. This report will be publically available and will be distributed as necessary to allow other region's to adopt the methods and program schedules and modify as they see fit to implement similar effective programs.

**Current Status:** 0% Complete

**Deliverables:** Survey documents, and final report

*Project 14: Striker Well Upgrades*

**Implementing Agency:** Sacramento County Water Agency (SCWA)

**Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Labor Compliance Program (LCP) implementation

**Current Status:** 50% complete. SCWA is a public agency and is following the California Public Contracts Code regarding labor compliance. SCWA is in conformance with the DWR requirement.

**Deliverables:** Monthly Certified Payroll Reports

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

**Category (b): Land Purchase/Easements**

The land purchase was completed several years ago and is 100% complete.

**Current Status:** 100% Complete

**Deliverables:** N/A

**Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** The work summary for the Sacramento County Water Agency's Striker Well includes only those tasks associated with the project from January 2014 forward. Planning and some permitting and environmental determination were prepared several years ago and are 100% complete. The only task associated with the above category is the electrical plans. Stantec was hired in February of 2014 to complete the electrical plans.

**Current Status:** 90% Complete

**Deliverables:** *Electrical plan documents*

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

**Task:** The following are brief status updates and deliverables:

- Well water pump and motor installed. Currently the existing well hole is being developed (i.e. pumped hard) and will then be sampled for water quality. This task was performed in 2002, but is being repeated due to the time that has elapsed. Once the well development has concluded, a motor and pump can be sized for the probable production level and purchased. The updated well operation permit from the Health Department is being reviewed by the Health Department.
- Pavement/drainage/landscaping. The pavement installation, including drainage system, and landscaping will be one of the last tasks to be completed. These will probably be completed in late September early October.
- Back-up Power Generator Installation. Depending on the delivery date of the back-up power generator by the manufacturer, it will likely be installed after the paving is completed. The generator will be ordered once the motor size is determined. The Air Quality permit will be applied for once the generator is selected and ordered.
- Automatic electrical switching gear. The automatic electrical switch will be ordered with the generator.

- Electrical panels, SMUD transformer, and SMUD service. The SMUD service request is completed. The electrical panels will be ordered once the motor selection is completed, estimated to be end of July. The concrete pads and conduits are estimated to be in place in early August. Delivery of the electrical panels is anticipated to be mid to late August.
- Chemical systems including associated shed, foundation, conduits, controls, pumps, plumbing SCADA system installed including; structure, pad, conduits, low voltage electrical, programming, hardware, transceiver, etc
- Miscellaneous on site plumbing including control valve, meter, valves, etc. The miscellaneous on site improvements will be performed in timing with other major components. For example, the plumbing will be brought to the well head but not connected until the well work is completed. The production meter may be placed and connected any time prior or even after the well pump and motor installation are completed.

**Current Status:** 50% Complete

**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials

*Project 15: Antelope Booster Pump Station Phase 2*

**Implementing Agency:** Sacramento Suburban Water District (SSWD)

**Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Labor Compliance Program (LCP) implementation

**Current Status:** 0% complete. Task to commence with construction.

**Deliverables:** Monthly Certified Payroll Reports

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

**Category (b): Land Purchase/Easements**

**Task:** There is no land or easement acquisition required for this project.

**Current Status:** N/A

**Deliverables:** N/A

**Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** Design is currently 50% complete. The 50% plans and specifications have been reviewed by SSWD and SJWD staff. Review comments were submitted to Domenichelli & Associates (D&A) on July 3, 2014. Three separate design submittals (50%, 90% and 100%) are anticipated during the final design phase. A control strategy workshop has also been held with staff from both SSWD and SJWD to discuss how the pump station will be operated, controlled and monitored.

It is anticipated that a Categorical Exemption will be adequate to meet the environmental review requirements under CEQA. SSWD will prepare a Notice of Exemption once supporting documentation is received from a subconsultant (EN2 Resources). SSWD's consultant, D&A, will support their effort by supplying necessary project descriptions and exhibits. It is anticipated that a Notice of Exemption will be completed and filed in July 2014.

**Current Status:** 50% Complete

**Deliverables:** Processed categorical exemption

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

**Task:** Construction is anticipated to begin in late-October 2014, and be completed by June 30, 2015. Construction activities will include installation and construction of piping/valves, a steel building, pumps and other equipment, a standby emergency generator, and electrical motor control center and instrumentation and controls, including Supervisory Control and Data Acquisition (SCADA).

The following permits are required for this project:

- Encroachment Permit (County of Sacramento)
- Permit to Construct and Permit to Operate Standby Emergency Generator (Sacramento Metropolitan Air Quality Management District)

Neither permit has been applied for at this time. Both the Encroachment Permit and the Permit to Construct will be obtained prior to construction. It's anticipated that it will take approximately 30 days to obtain these permits. The generator operation permit will be obtained upon completion of the project and prior to operation. It is anticipated that this permit will also take approximately 30 days to obtain.

**Current Status:** 0% Complete

**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials

*Project 16: Enterprise Intertie Improvements***Implementing Agency:** Sacramento Suburban Water District (SSWD)**Category (a): Direct Project Administration****Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)**Current Status:** 5% complete. Grant application preparation complete.**Deliverables:** Grant application, meeting materials, reimbursement invoices**Task:** Labor Compliance Program (LCP) implementation**Current Status:** 0% complete. Task to commence with construction.**Deliverables:** Monthly Certified Payroll Reports**Task:** Reporting (quarterly reports and a final project report)**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.**Deliverables:** Quarterly Reports, Final Project Report**Category (b): Land Purchase/Easements**

There is no land or easement acquisition required for this project.

**Current Status:** N/A**Deliverables:** N/A**Category (c): Planning/Design/Engineering/Environmental Documentation****Task:** Planning work, including field flow tests and hydraulic modeling, has been completed. Design work has not yet been initiated. Three separate design submittals (50%, 90% and 100%) are anticipated during the final design phase. It is anticipated that a Categorical Exemption will be adequate to meet the environmental review requirements under CEQA. SSWD will be the lead agency and will prepare the required Notice of Exemption. It is anticipated that a Notice of Exemption can be completed and filed in the fall of 2014. No environmental permits are anticipated for this project.**Current Status:** 10% Complete**Deliverables:** Design documents (50%, 90% and 100%), Categorical Exemption**Category (d): Construction/Implementation****Task:** Construction is anticipated to begin in November 2014, and be completed by the end of February 2015. Construction activities will include installation and construction of piping and a control valve, instrumentation and controls and SCADA integration/programming.**Current Status:** 0% Complete**Deliverables:** Construction records, approved submittals, RFI's, change orders, daily inspection reports and related materials

*Project 17: Barton Road Intertie*

**Implementing Agency:** San Juan Water District (SJWD)

**Category (a): Direct Project Administration**

**Task:** General project administration tasks (grant application preparation; grant and project agreement execution work; project coordination meetings and communications between the Regional Water Authority (RWA), contractors, consultants, and staff at local agencies; and preparation of reimbursement invoices)

**Current Status:** 5% complete. Grant application preparation complete.

**Deliverables:** Grant application, meeting materials, reimbursement invoices

**Task:** Labor Compliance Program (LCP) implementation

**Current Status:** 0% complete. Task to commence with construction.

**Deliverables:** Monthly Certified Payroll Reports

**Task:** Reporting (quarterly reports and a final project report)

**Current Status:** 0% complete. Task to commence during 1<sup>st</sup> quarter following grant award.

**Deliverables:** Quarterly Reports, Final Project Report

**Category (b): Land Purchase/Easements**

**Task:** A new pressure control station will be located along the shoulder of Barton Road in a new easement area. SJWD is working with PCWA's property specialist to obtain the property required for the new station.

**Current Status:** 50% Complete

**Deliverables:** Acquire easements

**Category (c): Planning/Design/Engineering/Environmental Documentation**

**Task:** SJWD has taken the lead for all planning and environmental documentation efforts to date. SJWD has contracted with Domenichelli & Associates, Inc. for engineering services to finalize the design of the pipeline, Youngdahl Associates, Inc. for geotechnical investigation services and Alan Divers Surveying for topographical survey services. The project is currently at the 90% design stage and is expected to go out to bid in September 2014. Other than the control station that is located along the shoulder of the Barton Road, the project is located beneath the paved roadway; therefore, SJWD has prepared and filed the CEQA Notice for Exemption on July 7, 2014 for the project as the local agency. Permitting will include an encroachment permit (issued by Placer County).

**Current Status:** 90% Complete

**Deliverables:** 100% design documents, processed categorical exemption

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

**Task:** The new 12" ductile iron pipeline will tie into SJWD's distribution system at the intersection of Barton Road and Cavitt Stallman Road. The connection to PCWA will occur near the intersection of Barton Road and Indian Springs Road. Other than the control station, the pipeline will be aligned beneath the easterly fog line of Barton Road. Installation of the pipeline shall be by conventional open cut for all areas other than the culvert crossing. Based on the geotechnical report, bedrock varies between 5' and 8' beneath pave. This may require the Contractor to use some larger equipment to excavate to the depth necessary for the required cover over the pipeline. There is a large culvert located near the midpoint of the pipeline alignment. The new pipeline will be directionally drilled beneath the culvert to prevent damage to the culvert. This will require the installation of a bore and receiving pit on either side of the culvert to install this section of pipeline.

The control station will be located near the intersection of Barton Road and Indian Springs Road. The new station will be equipped with a pressure control/sustaining valve to prevent overdraft of the PCWA system and over

pressurization of the SJWD system. The station will also include a new meter to account for water transferred between the agencies. In addition of the provision to convey water to SJWD, appurtenances will be include that will allow PCWA to install a pump to convey water from SJWD to PCWA. The control station will be above ground for ease of maintenance and will be protected in a steel/aluminum box with access panels for servicing.

Management of the design and planning efforts are being completed by SJWD staff with outside assistance for final design plans and specifications services. Construction Management and Inspection will also be completed by SJWD staff. It is anticipated that specialty inspection (i.e. geotechnical, AC paving, etc.) will require outside services. All project management services will be completed by SJWD staff. Project administration will be on-going throughout the project duration.

**Current Status:** 0% Complete

**Deliverables:** Construction records, approved submittals, encroachment permits, RFI's, change orders, daily inspection reports and related materials