



**CABY Integrated Regional Water Management Group  
2014 IRWM Drought Grant Solicitation**

**Attachment 4: Work Summary**

Attached please find Work Summaries for all Proposal Projects including a separate project for overall Administration of the projects by Applicant.

## **WORK SUMMARY: City of Placerville Waterline Replacement – Chamberlain/Sacramento Street Area**

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

#### **Task 1: Administration:** Task Status: 0%

Administration activities include: completion of contractual paperwork; preparation of invoices and reports, monitoring of expenses and all other non-construction project documentation and scheduling. Work will also include contribution of information to the CABY website and SWIM database. The City of Placerville (City) will submit all invoices and backup documentation to the Nevada Irrigation District (NID).

##### Deliverables:

- Invoices and backup documentation; Accurate and accessible records

#### **Task 2: Labor Compliance Program:** Task Status: 0%

The City will take all measures necessary to ensure compliance with applicable California Labor Code requirements.

##### Deliverable:

- Proof of labor compliance upon request

#### **Task 3: Reporting:** Task Status: 0%

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Completion Report as outlined in Exhibit G of this Agreement. The City will submit all reports to NID on time.

##### Deliverables:

- Quarterly Progress Reports; Draft and Final Project Completion Report

#### **Task 4: Project Monitoring Plan:** Task Status: 0%

Develop and submit a Project Monitoring Plan. Along with the Project Performance Measures Table requirements outlined in the Proposal Solicitation Package, the Project Monitoring Plan will include baseline conditions, a brief discussion of monitoring systems to be used, methodology of monitoring, frequency of monitoring, and location of monitoring points.

##### Deliverable:

- Project Monitoring Plan

### **Category (b) Land Purchase/Easement**

#### **Task 5: Land/Easement Acquisition:** Task Status: 0%

Right-of-Way documentation will need to be acquired for Line F which runs through a private parcel between Sacramento and Chamberlain Streets. The City of Placerville will obtain this documentation during Phase II for future replacement construction of Line F.

##### Deliverable:

- Right-of-Way Permit

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

#### **Task 6: Assessment and Evaluation:** Task Status: 100%

The City completed a Water Master Plan (WMP) in 2005 that identifies and prioritizes the water infrastructure that needs to be replaced/upgraded or looped for improved system reliability. City staff has further refined and prioritized pipeline reaches identified in the WMP and has developed this project to address its highest priority reliability, water loss and fire flow issues.

##### Deliverable:

- City of Placerville Water Master Plan (2005)

#### **Task 7: Final Design**

##### **Sub-Task 7.1: Final Design for Waterlines CC and E:** Task Status: 95%

The City contracted with Psomas Engineering through a grant from the El Dorado County Water Agency to complete 95% engineering plans and specifications for the Project including waterlines CC and E. The City will complete the remaining 5% for 100% engineering plans and specifications to move forward with project construction.

##### **Sub-Task 7.2: Design for Waterline F:** Task Status: 0%

The City will contract with an Engineering firm to complete 95% engineering plans and specifications for the remaining Project which will include surveying and marking the exact location of the existing 8 inch cross country line North of Sacramento Street and design of waterline F which will consist of approximately 400 feet of 8 inch pipe that will connect Line D and the current cross country line North of Sacramento Street.

##### Deliverables:

- 100% Engineering Plans and Specifications Documents; 95% Engineering Plans and Specifications Documents

**Task 8: Environmental Documentation:** Task Status: 100%

A CEQA Notice of Exemption was filed with the El Dorado County Clerk on June 26, 2012. Based on a reconnaissance-level biological survey, the Project would not impact any areas of critical concern; basis for determination (literature research, records search, field surveys).

Deliverables:

- Filed CEQA documentation – Categorical Exemption

**Task 9: Permitting:** Task Status: 0%

Obtain the permits required to implement the project. The City will prepare and process applications for encroachment permits needed from Caltrans for pipeline construction activities that take place within Highway 49 easements. The City and the construction contractor will secure the remaining permits as part of final construction planning.

Deliverables:

- Stormwater NPDES: Construction General Permit NOI & SWPPP (RWQCB); Fugitive Dust Permit (El Dorado County Air Quality Management); Encroachment Permit (Caltrans)

**Category (d) Construction/Implementation**

**Task 10: Construction Contracting:** Task Status 0%

The City will prepare a construction bid package for advertisement to procure a Construction Contractor using public bidding procedures. These policies and procedures will be used to identify the construction contractor from the pool of bidders. Pre-construction activities include standard bid procedures in accordance with the applicable Public Contract Codes. The Final Design Drawings and Specifications for this project are 95% complete and are nearly ready to be released to bid.

Deliverables:

- Advertisement for bids; pre-bid contractors meeting; contract addenda; evaluation of bids; award contract; Review Contractor Submittals; Notice to Proceed

**Task 11: Construction/Implementation:** Task Status 0%

**11.1 Mobilization and Site Preparation:** The selected contractor will mobilize equipment to the site and a staging area for materials and equipment will be established. The site will be graded to construction specifications and water pollution control will be implemented.

**11.2 Project Construction:** In accordance with Best Management Practices developed for the project, the selected Construction Contractor will arrange traffic control, fill and cap abandoned pipes and excavate and install new water lines. In Phase II, the City proposes to replace waterlines CC located on Sacramento Street and waterline E located on Chamberlain Street. Approximately 1,180 feet of 12-inch replacement pipeline will be installed, along with 19 service laterals, within existing road rights-of-way and utility easements. Trench lines will be backfilled according to geotechnical standards and City Inspector will confirm all activities.

**11.3: Performance Testing and Demobilization:** All lines will be tested and verified to meet City standards. Upon completion of work the selected Construction Contractor will dismantle the staging area and demobilize equipment from the site.

Deliverables:

- Installation, sanitation, and testing of all required infrastructure; Waterline replacements completed; Final performance testing

**Task 12: Environmental Compliance:** Task Status 0%

The selected Construction Contractor will prepare an erosion control plan to ensure that soil exposed during project activities will not be transported if a rain event should occur during implementation. Before construction implementation, the NPDES permit program requirements will be met. A Storm Water Pollution Prevention Plan will be completed and a Notice of Intent to Discharge will be obtained under the Regional Water Quality Control Board's California Construction General Permit regulations.

Deliverables:

- Develop Erosion Control Plan; Develop Storm Water Prevention Plan; Notice of Intent to Discharge

**Task 13: Construction Administration** Task Status 0% complete

City staff will serve as construction managers for the project, as they have for similar projects successfully completed by the City. Supervision activities will include: ensuring implementation of pre-construction plans including coordination with appropriate agencies such as CHP and Caltrans, on-site observations and inspections, inspection of materials prior to installation, conducting construction progress meetings as required, review of project status (percent complete versus percent spent), preparation and processing of change orders, review and approval of progress payments and recommendations for payment (as required), in-field problem solving, and other related activities.

Deliverables:

- Supervision and documentation of all project construction activities; Customer notices and information releases; Water System Operations; Completion of final report & as-built drawings

**WORK SUMMARY: El Dorado County Regional Water Conservation Planning – Model Implementation and Education Programs**

**Category (a) Direct Project Administration**

**Task 1: Administration:** Task Status 0% complete

Non-construction project administration activities will be performed by the El Dorado County Water Agency (EDCWA) administrative manager. Work will include contribution of information to the CABY website and SWIM database. EDCWA will submit all invoices and backup documentation to the Nevada Irrigation District (NID).

Deliverables: Invoices and backup documentation

**Task 2: Labor Compliance Program:** Task Status 0% complete

EDC will take all measures necessary to ensure compliance with applicable California Labor Code requirements.

Deliverable: Proof of labor compliance upon request

**Task 3: Reporting:** Task Status 0% complete

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Completion Report as outlined in the PSP. EDCWA will submit all reports to NID on time.

Deliverables: Quarterly Progress Reports; Draft and Final Project Completion Report

**Task 4: Project Monitoring Plan:** Task Status 0% complete

Develop and submit a Project Monitoring Plan which will include Project Performance Measures Table requirements outlined in PSP.

Deliverable: Project Monitoring Plan

**Category (b) Land Purchase/Easement**

**Task 5: Land/Easement Acquisition:**

There is no need to purchase additional land and/or obtain additional easements for this project.

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

**Task 6: Assessment and Evaluation:** Task Status 40% complete

**Sub-task 6.1 County-wide Water Conservation Plan:** 0% complete

Consultant will: identify and review existing materials, assessments, resources and programs and targeted conservation needs; evaluate population estimates and water usage, system capacity and input, types of users and conservation targets and goals; prioritize all potential Conservation Plan components according to criteria developed with agency staff and stakeholders. The plan will also encompass Water Use Efficiency and Water Conservation Outreach components that will consist of Best Management Practices (BMPs) and Demand Management Measures.

**Sub-task 6.2 The Great Water Mystery Water Conservation Assembly and Audit Program:** Task Status 80% complete

This Program is already in use on the CABY region and will be immediately ready to go on completion of the County-wide Plan. A contract will be developed with the South Yuba River Citizens League (SYRCL), (a CABY stakeholder) and for implementation throughout the CABY Region. SYRCL staff will make all necessary adjustments for individual watersheds and update curriculum for current state and national educational standards as necessary.

**Sub-task 6.3 El Dorado County Government Center Water Conservation Retrofits:** Task Status 100% complete

This is a model shovel-ready project what will be a high priority program in the County-wide Plan that will retrofit the County Buildings A, B, and C, library and main jail. A Conditions Assessment Report was carried out in June 2013 by a consultant (Vanir Construction Management, Inc.). The County staff solicited cost estimates form Sacramento contractors. This Assessment Report will serve as the basis for a model retrofit implementation project.

Deliverables: Draft County-Wide Conservation Plan; Public presentations; Conditions Assessment Report (2013)

**Task 7: Final Design**

**Sub-task 7.1 County-Wide Water Conservation Plan:** Task Status 0% complete

Consultant will produce a Final Plan including a regional description, listing of priority projects and programs, targets and goals, implementation schedule and potential funding sources.

**Sub-task 7.2 The Great Water Mystery Water Conservation Assembly and Audit Program:** Task Status 100% complete

**Sub-task 7.3 El Dorado County Government Center Water Conservation Retrofits:** Task Status 20% complete

El Dorado County Facilities Management Staff (EDC) will work to complete 100% engineering plans and specifications for the project.

Deliverables: Final County-Wide Conservation Plan; 100% Engineering Plans

**Task 8: Environmental Documentation:** Task Status 20% complete

**Sub-task 8.1-8.2** Task Status N/A

**Sub-task 8.3 El Dorado County Government Center Water Conservation Retrofits:** Task Status 0% complete

Based on an initial understanding of the project, EDCWA believes that it qualifies for a Categorical Exemption, satisfying CEQA requirements for this Project.

Deliverables: Approved and adopted CEQA documentation for Retrofit Program

### **Task 9: Permitting**

**Sub-task 9.1-9.2** Task Status N/A

**Sub-task 9.3** *El Dorado County Government Center Water Conservation Retrofits:* Task Status 0% complete

EDC staff will prepare all documentation necessary to complete a Building Permit.

Deliverables: El Dorado County Building Permits for Retrofit Program

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

**Task 10: Construction and Implementation Contracting:** Task Status 0% complete

EDC will use County and local agency staff where possible or specialized contractors as necessary. EDCWA will work with NID to write a subcontract with SYRCL to produce the Great Water Mystery throughout the CABY region and another with NID to oversee the Retrofit Program. Where outside contracting for sub-tasks is necessary, process will include standard bidding processes in accordance with the Public Contract Code.

Deliverables: Sub-contracts with SYRCL and NID; Advertisement for bids; pre-bid contractors meeting; evaluation of bids; award contracts

### **Task 11: Construction/Implementation**

Work for this task includes all implementation activities related to the Project, as listed below:

**Sub-task 11.1 Mobilization and Site Preparation:** Task Status 0% complete

**11.1.1-11.1.2:** Task Status: N/A

**11.1.3: *El Dorado County Government Center Water Conservation Retrofits***

EDC will set up a central staging area for storing and distributing equipment and materials. Contractors and staff will inform all necessary agencies of outages dates and duration.

**Sub-task 11.2 Project Construction/Implementation:** Task Status: 0% complete

**11.2.1: *County-Wide Water Conservation Plan:*** Task Status: N/A; Task Completed in 7.1 above

**11.2.2: *The Great Water Mystery Water Conservation Assembly and Audit Program:*** Task Status: 0% complete

SYRCL will hire and train presenters, develop county K-8 school database, publicize programs to regional schools and schedule 83 assemblies and 60 School Water Audits during the life of the project throughout the CABY Region.

**11.2.3: *El Dorado County Government Center Water Conservation Retrofits:*** Task Status 0% complete

In accordance with BMPs developed for the project, Contractor will remove low efficiency, wasteful, toilets, urinals, sinks, showers and shower-heads throughout the Government Center buildings, Jail and Library and replace them with modern, low flow, efficient models.

**Sub-task 11.3: Performance Testing and Demobilization:** Task Status: 0% complete

**11.3.1: *County-Wide Water Conservation Plan:*** Task Status N/A

**11.3.2: *The Great Water Mystery Water Conservation Assembly and Audit Program:*** SYRCL staff will survey teachers and students pre and post program delivery and summarize in a report.

**11.3.3: *El Dorado County Government Center Water Conservation Retrofits:*** Task Status 0% complete

EDC staff will oversee all necessary commissioning, certification and vendor sign-off procedures to ensure proper performance of all newly installed equipment.

Deliverables: Installation and testing of new equipment; Final Performance Testing results for Retrofit Program; Survey Report for Great Water Mystery Program; Site photos including photos of sign(s) acknowledging DWR grant funding, Project Completion Certificate, Vendor Sign Off certification.

### **Task 12: Environmental Compliance**

During construction, EDC Facilities Management Staff will provide any applicable environmental compliance services and all other compliance reporting for environmental issues required by regional permitting agencies.

Deliverables: Worker training materials, training sign-off sheet, and weekly updates as applicable

### **Task 13: Construction Administration**

During construction, EDC Facilities Management staff will provide construction management, oversight and administration for Task 11 including on-site observations and inspections, conducting construction progress meetings, review of project status, preparation and processing of change orders, review and approval of progress payments and recommendations for payment.

Deliverables: Supervision and documentation of all construction activities; Notice of Completion; Completion of final report and as-built drawings.

## WORK SUMMARY: Georgetown Divide PUD Water Conservation, Supply Reliability and Environmental Protection

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

#### **Task 1: Administration:** Task Status: 0% complete

Administration activities include: completion of contractual paperwork; preparation of invoices and reports, monitoring of expenses and all other non-construction project documentation and scheduling. Work will also include contribution of information to the CABY website and SWIM database. The Georgetown Divide Public Utility District (District) will submit all invoices and backup documentation to the Nevada Irrigation District (NID).

##### Deliverables:

- Invoices and backup documentation

#### **Task 2: Labor Compliance Program:** Task Status: 0% complete

The District will take all measures necessary to ensure compliance with applicable California Labor Code requirements.

##### Deliverable:

- Proof of labor compliance upon request

#### **Task 3: Reporting:** Task Status: 0% complete

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Completion Report as outlined in the PSP. The District will submit all reports to NID on time.

##### Deliverables:

- Quarterly Progress Reports
- Draft Project Completion Report
- Final Project Completion Report

#### **Task 4: Project Monitoring Plan:** Task Status: 0% complete

Develop and submit a Project Monitoring Plan. Along with the Project Performance Measures Table requirements outlined in the Proposal Solicitation Package, the Project Monitoring Plan will include baseline conditions, a brief discussion of monitoring systems to be used, methodology of monitoring, frequency of monitoring, and location of monitoring points.

##### Deliverable:

- Project Monitoring Plan

### **Category (b) Land Purchase/Easement**

#### **Task 5: Land/Easement Acquisition:** Task Status: 100% complete

There is no need to purchase additional land and/or obtain additional easements for this project. All work will be performed on District property or within existing easements.

##### Deliverable:

- Proof of Title Transfer/Easement

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

#### **Task 6: Assessment and Evaluation: Surveying and Geotechnical Services:** Task Status: 0% complete

Surveying for the project will include GPS locating and staking of the reaches to receive the new lining. A geotechnical firm will be consulted to provide a report addressing the compaction requirements and any slope stability issues to be addressed by the design engineers.

##### Deliverable:

- Surveying and Geotechnical Report

#### **Task 7: Final Design:** Task Status: 0% complete

The Design Engineers will create the overall design plans showing project reaches, lengths, typical sections, staging areas and any related construction details. Design specifications will accompany the design drawings providing detailed direction on contract processes, permit requirements, bidding instructions, materials selection, methods of construction and installation, and any other special provisions to carry out the construction contract.

##### Deliverables:

- Design Bid Document

#### **Task 8: Environmental Documentation: CEQA Compliance:** Task Status: 0% complete

Based upon an initial understanding of the project, it is believed that the project qualifies for a Categorical Exemption to meet the California Environmental Quality Act (CEQA) requirements for this Project.

##### Deliverables:

- Approved and adopted CEQA documentation

#### **Task 9: Permitting:**

Work for this task includes all permitting activities related to the Project, as listed below:

**Sub-task 9.1: Wetland Delineation and Army Corps of Engineers 404 Permit:** Task Status: 0% complete

**Sub-task 9.2: California Department of Fish and Wildlife 1600 Streambed Alteration Agreement:** Task Status: 0% complete

**Sub-task 9.3: Regional Water Quality Control Board (RWQCB) 401 Certification:** Task Status: 0% complete

Deliverables:

- CWA Section 404 Nationwide Permit
- 1600 Streambed Alteration Agreement
- 401 Water Quality Certification

**Category (d) Construction/Implementation**

**Task 10: Construction Contracting:** Task Status: 0% complete

A Construction Manager will be assigned to administer the contract documents and to provide adequate inspection services to assure adherence to the construction documents and to monitor schedule and progress payments. Construction contracting will include standard bidding procedures in accordance with the Public Contract Code.

Deliverables:

- Advertisement for bids; pre-bid contractors meeting; evaluation of bids; award contracts

**Task 11: Construction/Implementation:** Task Status: 0% complete

Work for this task includes all construction activities related to the Project, as listed below:

**Sub-task 11.1: Mobilization and Site Preparation:** The contractor will set up a central staging area for storing equipment and materials and establish a local centralized batch plant where materials will be delivered and gunite will be mixed and distributed. Although the sites identified are close to existing roadways, we anticipate short gravel access paths to be necessary in some locations to deliver the lining materials to the sites. As part of the typical District annual outage (October 1 through November 30), ditch reaches will be dewatered.

**Sub-task 11.2: Project Construction:** With the scheduled outage during the fall months, some precipitation is expected and SWPPP measures, i.e., Erosion Control Features will be put in place as necessary. Minor Re-grading of ditch and surface preparation will be accomplished by a small bobcat, compact track loader, and hand crews to strip and compact the canal bottom and banks. Place reinforcing matt and apply gunite. The reinforcing matt will be a small gauge welded wire fabric that is easily transported, cut to fit and shaped to the desired ditch dimensions. Once the placement equipment is removed from the site, final restoration of the disturbed areas adjacent to the ditch can be restored (hydroseed, mulching, etc.).

**Sub-task 11.3: Performance Testing and Demobilization:** The contractor will restore the central staging area and remove all equipment, trailers and any temporary utilities provided for the construction. The District will be installing a recording flow meter to document water conserved.

Deliverables:

- Site photos including onsite photos of sign(s) acknowledging support of Department of Water Resources grant funding, Project Completion Certificate etc.

**Task 12: Environmental Compliance:** Task Status: 0% complete

During construction, environmental and archaeological/cultural monitoring and compliance services will be provided. Before construction implementation, the NPDES permit program requirements will be met. A Storm Water Pollution Prevention Plan will be completed and a Notice of Intent to Discharge will be obtained under the Regional Water Quality Control Board's California Construction General Permit regulations. In addition, other monitoring and compliance reporting for environmental issues specified in the adopted final CEQA documents, and by regional permitting agencies will be completed.

Deliverables:

- Develop Erosion Control Plan
- Develop Storm Water Prevention Plan
- Notice of Intent to Discharge

**Task 13: Construction Administration:** Task Status: 0% complete

During construction, staff (and/or qualified engineering consultants) will provide construction management, oversight and administration for Task 11. Work for this task will include: on-site observations and inspections, conducting construction progress meetings, review of project status, preparation and processing of change orders, review and approval of progress payments and recommendations for payment.

Deliverables:

- As-Built Plans
- Notice of Completion
- Engineer's Certificate of Project Completion

## **WORK SUMMARY: Grizzly Flats Drought Measures Infrastructure Project**

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

**Task 1: Administration:** Task Status: 0% complete

Non-construction project administration activities will be performed by the Grizzly Flats Community Services District (GFCSD) administrative manager. Work will include contribution of information to the CABY website and SWIM database. GFCSD will submit all invoices and backup documentation to the Nevada Irrigation District (NID).

Deliverables: Invoices and backup documentation, data reports

**Task 2: Labor Compliance Program:** Task Status: 0% complete

GFCSD will take all measures necessary to ensure compliance with applicable California Labor Code requirements.

Deliverable: Proof of labor compliance upon request

**Task 3: Reporting:** Task Status: 0% complete

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Completion Report as outlined in Exhibit G of this Agreement. GFCSD will submit all reports to NID on a time.

Deliverables: Quarterly Progress Reports; Draft and Final Project Completion Report

**Task 4: Project Monitoring Plan:** Task Status: 0% complete

Develop and submit a Project Monitoring Plan which will include Project Performance Measures Table requirements outlined in PSP.

Deliverable: Project Monitoring Plan

### **Category (b) Land Purchase/Easement**

**Task 5: Land/Easement Acquisition:** Task Status: 100% complete

There is no need to purchase additional land and/or obtain additional easements for this project as all of the components of this plan will be implemented at the GFCSD offices or at GFCSD properties and residences within the GFCSD service area boundaries.

Deliverables: Proof of Title Transfer/Easement

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

**Task 6: Assessment and Evaluation:** Task Status 80% complete

Based on technical studies and reports, GFCSD staff has identified and prioritized overall water system needs and determined to pursue a suite of projects that will improve system reliability, water loss and system wide drought impacts.

**Sub-task 6.1: Infrastructure Components: Field Verification:** Contractor will review all documents such as existing drawings, specifications and other information that is available and will make on-site visit(s) in order to gather additional field-related information such as performing field inspections, taking photos, and performing other related field tests as necessary.

**Sub-task 6.2: Leak Detection Program:** Geographical Information Systems (GIS) will be used to provide system-wide leak detection equipment coordinates.

#### **6.3 Residential Water Conservation Program**

Contractor will work with GFCSD staff to draft a Residential Water Conservation Plan that integrates new water use efficiency elements and that will build upon GFCSD's existing Drought Action Plan.

Deliverables: Technical Studies; CSI Inspection Report; WSIP PER, Water Supply and Demand Update, Residential Leak Detection Program, Residential Water Conservation Program

**Task 7: Final Design:** Task Status: 0% complete

**Sub-Task 7.1: Infrastructure Components:** The Contractor, under a design and build contract, will design and prepare all final plans and specifications for every infrastructure project component. Design specifications will accompany the design drawings providing detailed direction on contract processes, permit requirements, bidding instructions, materials selection, methods of construction and installation, and any other special provisions to carry out the construction contract.

**Sub-task 7.2: Leak Detection Program:** Contractor will work with GFCSD to finalize a system-wide program for installation and ongoing monitoring of data logging leak correlators. GFCSD's GIS will be updated to provide leak detection equipment coordinates.

#### **Sub Task 7.3 - Residential Water Conservation Program**

Contractor will finalize GFCSD's Residential Water Conservation Plan that integrates new water use efficiency elements into GFCSD's existing Drought Action Plan. The plan will include 1) Public Outreach (Education and Workshop Activities) designed to change water use behaviors; 2) BMPs and DMMs; and, 3) Distribution Plan for Retrofit Kits and Toilet Rebates.

Deliverables: Final plans and specifications; Design Bid Document. Final Leak Detection Program, Final Residential Water Conservation Program

### **Task 8: Environmental Documentation**



**Sub-task 8.1: CEQA Compliance:** Task Status: 0% complete

Based upon an initial understanding of the components of this project, it is believed that the project qualifies for a Categorical Exemption to meet the California Environmental Quality Act (CEQA) requirements for this Project.

Deliverables: Approved and adopted CEQA documentation

**Task 9: Permitting:** Task Status: 100% complete

No additional permitting is required. The construction work in this project is considered as operations and maintenance that will be performed on existing infrastructure. No ground disturbing activities will occur.

**Category (d) Construction/Implementation**

**Task 10: Construction Contracting:** Task Status: 0% complete

A Construction Manager will be assigned to administer the contract documents and to provide adequate inspection services to assure adherence to the construction documents and to monitor schedule and progress payments. Construction contracting will include standard bidding procedures in accordance with the Public Contract Code.

Deliverables: Advertisement for bids; pre-bid contractors meeting; evaluation of bids; award contracts

**Task 11: Construction/Implementation:** Task Status: 0% complete

Work for this task includes all construction and implementation activities related to the Project, as listed below:

**Sub-Task 11.1 Mobilization of equipment, materials and crews:** The contractor will set up a central staging area for storing and distributing equipment and materials. Contractors and staff will inform all necessary agencies of outages dates and duration.

**Sub-task 11.2 Project Construction/Implementation**

**11.2.1** Install Air Release Valves (ARVs) in the Eagle Ditch pipeline.

**11.2.2** Replace two 40+ year old back wash tanks with one of equal or larger capacity that would allow the District to reclaim water used for backwash and recycle it back into the reservoir for treatment.

**11.2.3** Install the cathodic protection systems per the design.

**11.2.4** Replace older, less reliable water meters with new meters that have leak indicators and could provide the necessary accuracy.

**11.2.5** Install a Supervisory Control and Data Acquisition System (SCADA) to gather readings and alarm conditions from the various components of the water system.

**11.2.6** Upgrade GIS system, install Leak detection data loggers and correlators and repair leaks: Contractor or GFCSD will upgrade GFCSD GIS system, install leak detection equipment and GFCSD staff will make necessary repairs of identified leaks

**11.2.7** Implement water conservation program: Comprehensive public outreach and education program to customers for new water use efficiency. This includes focusing on demand-based reduction methods and practices to sustain water conservation. The plan includes 1) Public Outreach (Education and Workshop Activities) designed to change water use behaviors; 2) implement feasible aspects of CUWCC BMPs and DWR's DMMs; and, 3) Distribution of Retrofit Kits and Toilet Rebates.

Deliverables: Site photos; Comprehensive written report from contractor, discussing findings; O&M manual; Technical training for GFCSD staff and maintenance personnel; Project Completion Certificate. Installation of Leak Detection Equipment, Log/Report Leak Repair Activity, Public Outreach and Education materials Workshop Presentations/Activities; GIS system upgrades etc. Demonstrate progress on Water Conservation Results Report with Water Savings Results.

**Sub-Task 11.3 Performance Testing and Demobilization:** Contractor will oversee all necessary commissioning, certification and vendor sign-off procedures to ensure proper performance of all newly installed equipment. The contractor will restore the central staging area and remove all equipment, trailers and any temporary utilities provided for the construction. Staff will survey customers and fixtures post leak detection etc. program delivery and summarize in a report.

Deliverables: Site photos; Comprehensive written report from contractor, discussing findings; O&M manual; Technical training for GFCSD staff and maintenance personnel; Project Completion Certificate. Verify Leak Detection equipment accuracy, etc. Complete Water Conservation Results Report with Water Savings Results.

**Task 12: Environmental Compliance:** Task Status: 0% complete

Monitoring and compliance reporting for environmental issues specified in the adopted final CEQA documents, and by regional permitting agencies will be completed.

**Task 13: Construction Administration:** Task Status: 0% complete

During construction, staff (and/or qualified engineering consultants) will provide construction management, oversight and administration for Task 11. Work for this task will include: on-site observations and inspections, conducting construction progress meetings, review of project status, preparation and processing of change orders, review and approval of progress payments and recommendations for payment.

Deliverables: As-Built Plans; Notice of Completion; Engineer's Certificate of Project Completion.

## **WORK SUMMARY: Rock Creek Water Contingency Intertie**

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

#### **Task 1: Administration:** Task Status 5% complete

Administration activities include: completion of contractual paperwork; preparation of invoices and reports, monitoring of expenses and all other non-construction project documentation and scheduling. Work will also include contribution of information to the CABY website and SWIM database.

##### Deliverables:

- Invoices and backup documentation

#### **Task 2: Labor Compliance Program:** Task Status 0% complete

Throughout, NID will take all measures necessary to ensure compliance with applicable California Labor Code requirements.

##### Deliverable:

- Proof of labor compliance upon request

#### **Task 3: Reporting:** Task Status 0% complete

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Completion Report. NID will submit all reports on time.

##### Deliverables:

- Quarterly Progress Reports; Draft and Final Project Completion Report

#### **Task 4: Project Monitoring Plan:** Task Status 0% complete

Develop and submit a Project Monitoring Plan. Along with the Project Performance Measures Table requirements outlined in the Proposal Solicitation Package, the Plan will include baseline conditions, a brief discussion of monitoring systems to be used, methodology of monitoring, frequency of monitoring, and location of monitoring points.

##### Deliverable:

- Project Monitoring Plan

### **Category (b) Land Purchase/Easement**

#### **Task 5: Land/Easement Acquisition:** Task Status 10% complete

Easements will need to be acquired for a portion of the project and existing easements will also be used. Three property owners have been contacted and are aware of the project, a maximum of five new easements may need to be acquired. Existing easements include utility easements within Shale Ridge Road and Locksley Lane, an existing utility easement north of the Rock Creek Reservoir, and an NID easement between its existing water treatment plant and the Rock Creek Reservoir. One easement may be provided by PG&E through their property.

##### Deliverable:

- Proof of Title Transfer/Easements

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

#### **Task 6: Assessment and Evaluation:** Task Status 100% complete

This task includes pre-design evaluation, alternative route analysis, and environmental survey and reporting. The environmental surveys have been completed and are part of the adopted CEQA document.

##### Deliverable:

- Approved and adopted Initial Study/Mitigated Negative Declaration ("Rock Creek Siphon" Project)

#### **Task 7: Final Design:** Task Status 30% complete

This work includes developing construction plans for the project including construction specifications. The Construction Plans are approximately 30% complete. The Construction Specifications need to be created for bidding purposes.

##### Deliverables:

- Project Construction Plans and Construction Specifications

#### **Task 8: Environmental Documentation:** Task Status 100% complete

The CEQA documentation has been prepared, provided to the public for comment, and was adopted by the NID Board of Directors (adopted May 14, 2014).

##### Deliverables:

- Approved and adopted Initial Study/Mitigated Negative Declaration ("Rock Creek Siphon" Project)

**Task 9: Permitting:** Task Status 0% complete

The project may require the following permits: Clean Water Act Section 401 and 404, California Department of Fish & Wildlife Code Section 1600, National Historic Preservation Act Section 106, and Federal Endangered Species Act Section 7. County encroachment permits (on public roads) may also apply. Other additional surveys may be required pending permit necessities. These potential requirements are listed in the adopted Environmental Report.

Deliverables:

- Section 1600, 401, 404, and Section 7 Permits; County Encroachment Permits

**Category (d) Construction/Implementation**

**Task 10: Construction Contracting:** Task Status 0% complete

Construction contracting will include: advertising for bidding through standard NID procedures, holding a pre-bid meeting, and responding to questions from contractors, opening and reviewing bids for completeness, and Board award of the project to the lowest responsive responsible bidder in accordance with the Public Contract Code.

Deliverables:

- Advertisement for bids; pre-bid contractors meeting; evaluation of bids; award contracts

**Task 11: Construction/Implementation:** Task Status 0% complete

Work for this task includes all construction activities related to the Project, as listed below:

**Sub-task 11.1 Mobilization and Site preparation:**

The contractor will obtain appropriate staging area(s) with willing property owners near or within the project area for the temporary storage of the construction equipment and materials during the project. The site preparation will include removal and/or trimming of trees within the project alignment, pre-construction survey of existing property lines and easement limits, marking the project area for existing utilities (USA DIG Alert), and saw cutting of road surfaces for future digging of trenches.

**Sub-task 11.2: Project construction**

Construction will consist of digging a trench for the pipe, placing suitable bedding material, laying the pipe in the trench, backfilling the trench and compacting the fill, and then final restoration of the top surface (and re-asphalting any roads crossed). Additional construction items would be adding tracer wire to the top of the pipe, and building inlet and outlet structures. Restoration of the surrounding topography would include soil stabilization, which may include adding seeding and erosion control measures.

**Sub-task 11.3: Performance Testing and Demobilization**

Testing will include soil compaction testing of the trench fill as well as pipe pressure testing to determine if the pipe joints are sound (leak detection). Asphalt application for road surfaces will be tested for proper temperature of the asphalt and air temperature to ensure proper conditions. Concrete cylinders may be collected on pouring of large structures such as the inlet to the pipeline to determine proper strength of concrete. Demobilization will occur once a site walk through and punchlist is shown that the project is completed per project specs and plans. The demobilization includes removing remaining unused materials and equipment from the project site (construction trailers if applicable) and the final restoration of any impacted properties.

Deliverables:

- Site photos including photos of sign(s) acknowledging DWR grant funding, Mitigation Monitoring Reports, Project Completion Certificate etc.

**Task 12: Environmental Compliance:** Task Status 0% complete

During construction, NID staff and qualified environmental consultants will provide applicable environmental and archaeological/cultural compliance services. Qualified environmental consultants will conduct pre-construction clearance surveys and will provide environmental awareness training to the contractor's construction crew and to NID staff prior to starting construction. The contractor will follow NPDES, Storm Water Pollution Prevention reporting requirements with the oversight of the NID. Environmental compliance for the project will follow the specifications and mitigation measures adopted in the final CEQA document, and by regional agency permitting requirements.

Deliverables:

- Worker training materials, training sign-off sheet; Storm Water Pollution Prevention Plan; Biological Monitoring (Field) Survey Reports; Permit Requirements

**Task 13: Construction Administration**

During construction, NID staff will provide construction management, oversight and administration for Task 11, including on-site observations and inspections, conducting construction progress meetings, review of project status, preparation and processing of change orders, review and approval of progress payments and recommendations for payment.

Deliverables:

- As-Built Plans; Notice of Completion; Engineer's Certificate of Project Completion

## WORK SUMMARY: Greeley Canal Drought Measures Optimization

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

**Task 1: Administration:** Task Status 5% complete

Administration activities include: completion of contractual paperwork; preparation of invoices and reports, monitoring of expenses and all other non-construction project documentation and scheduling. Work will also include contribution of information to the CABY website and SWIM database. Placer County Water Agency (PCWA) will submit all invoices and backup documentation to Nevada Irrigation District (NID).

Deliverables:

- Invoices and backup documentation

**Task 2: Labor Compliance Program:** Task Status 0% complete

PCWA will take all measures necessary to ensure compliance with applicable California Labor Code requirements.

Deliverable:

- Proof of labor compliance upon request

**Task 3: Reporting:** Task Status 0% complete

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Completion Report. PCWA will submit all reports to NID on time. .

Deliverables:

- Quarterly Progress Reports; Draft and Final Project Completion Report

**Task 4: Project Monitoring Plan:** Task Status 0% complete

Develop and submit a Project Monitoring Plan. Along with the Project Performance Measures Table requirements outlined in the Proposal Solicitation Package, the Project Monitoring Plan will include baseline conditions, a brief discussion of monitoring systems to be used, methodology of monitoring, frequency of monitoring, and location of monitoring points.

Deliverable:

- Project Monitoring Plan

### **Category (b) Land Purchase/Easement**

**Task 5: Land/Easement Acquisition:** Task Status 0% complete

The Upper Greeley and Lower Greeley canals combined length is approximately 5 miles. Proposed improvements not within existing easements is limited to the headworks of the Lower Greeley Canal. Approximate area required will be 2400 square feet. Easements will be required on two parcels.

Deliverable:

- Proof of Title Transfer/Easement

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

**Task 6: Assessment and Evaluation :** Task Status 0% complete

Review historical data available on canal spills and research possible control equipment and strategies. Complete site layouts, site grading, hydraulic analysis; mechanical, electrical, instrumentation, and communications design.

Deliverable:

- Technical and Environmental Studies

**Task 7: Final Design:** Task Status 0% complete

**Upper Greeley Headworks:** Detailed design of an automated flume gate to discharge variable flows canal, responding to the direction from SCADA using flow, pressure and historical usage information.

**Lower Greeley Headworks:** Detailed design for a pressure sustaining station to maintain prescribed pressure in Upper Greeley Canal pipe upstream of station. Pressure and flow to be measured and reported to SCADA for use in flow balancing algorithm.

Deliverables:

- Final plans and specifications

**Task 8: Environmental Documentation:** Task Status 0% complete

PCWA will conduct a reconnaissance level survey of the area prior to the grant award date. There would be minimal ground disturbance and the maintenance work will occur in previously disturbed areas. PCWA anticipates the project will be exempt from CEQA and will file a categorical exemption. The construction specifications will include best management practices.

Deliverables:

- Approved and adopted CEQA documentation

### **Task 9: Permitting**

No permits are anticipated to be required for this project as project work is considered under the category of maintenance.

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

#### **Task 10: Construction Contracting:** Task Status 0% complete

Construction contracting will include: advertising for bidding through standard PCWA procedures, holding a pre-bid meeting, and responding to questions from contractors, opening and reviewing bids for completeness, and Board award of the project to the lowest responsive responsible bidder in accordance with the Public Contract Code.

Deliverables:

- Advertisement for bids; pre-bid contractors meeting; evaluation of bids; award contracts

#### **Task 11: Construction/Implementation:** Task Status 0% complete

Work for this task includes all construction activities related to the Project, as listed below:

##### **Sub-task 11.1: Mobilization and Site preparation:**

**Upper Greeley Headworks:** Install temporary bypass around construction site.

**Lower Greeley Headworks:** Clearing access to site and work area. Establish temporary site fencing.

##### **Sub-task 11.2: Project construction**

**Upper Greeley Headworks:** Demolition of section of canal to receive flumegate. Grade site for new canal section. Grade site for power, RTU, and communication equipment. Install section of canal with flumegate. Install power, RTU, and communication equipment. Energize equipment. SCADA integration

**Lower Greeley Headworks:** Grade site for mechanical, electrical, control and communication equipment. Install mechanical: piping, isolation valves, control valve, flow meter and pressure transducer. Install power, RTU, and communication equipment. Energize equipment. SCADA integration

##### **Sub-task 11.3: Performance Testing and Demobilization**

**Upper Greeley Headworks:** Test all installed equipment for proper operation. Test communication between equipment. Test communication link to SCADA. Implement and tune control program to reduce spill. Cleanup & demobilize

**Lower Greeley Headworks:** Test all installed equipment for proper operation. Test communication between equipment. Test communication link to SCADA. Implement and tune control program to reduce spill. Cleanup & demobilize

Deliverables:

- Site photos including photos of sign(s) acknowledging DWR grant funding support; Equipment Test Reports

#### **Task 12: Environmental Compliance :** Task Status 0% complete

During construction, environmental and any other applicable monitoring and compliance services will be provided by staff/consultants. Depending on the acreage of soil disturbance, a Stormwater Pollution Prevention Plan (SWPPP) or a Water Pollution Control Plan (WPCP) will be prepared for the project.

Deliverables:

- Categorical exemption; SWPPP or WPCP as required

#### **Task 13: Construction Administration:** Task Status 0% complete

During construction, staff (and/or qualified engineering consultants) will provide construction management, oversight and administration for Task 11 including on-site observations and inspections, conducting construction progress meetings, review of project status, preparation and processing of change orders, review and approval of progress payments and recommendations for payment.

Deliverables:

- As-Built Plans; Notice of Completion; Engineer's Certificate of Project Completion

## **WORK SUMMARY: Administration**

Work for this project will involve conducting administration duties for all the grant's projects. This will involve reporting, invoicing directly to DWR, financial oversight and controls, labor compliance, project coordination and field oversight.

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

#### **Task 1: Administration**

This task will keep the projects within the grant on time and within budget, keep all participants informed of project progress and status of deliverables, establish and maintain reliable and accurate billing and record keeping ensure that all requirements of the agreement with the DWR, including Labor Compliance are met, and generally ensure smooth project implementation. In addition, work will comprise all non-construction project administration activities performed by staff (and/or a qualified consultant) throughout the duration of the grant and will include: development and completion of contractual paperwork, maintenance and reporting of expense documentation, oversight of project scheduling and contract/agreement compliance, preparation of monthly invoices, and completion of the final invoice.

This task also supports interim administrative tasks begun upon notification of award. This work includes participation in refinement of Agreement, development of internal controls and systems to support invoicing and reporting and direct work with individual project sponsors to support their establishment of compatible reporting and invoicing systems.

#### Deliverables:

- Executed Agreement
- Invoices and backup documentation
- Wet-signed Invoice Forms
- All other DWR required paperwork

#### **Task 2: Reporting**

Work for this task will include all activities necessary to support preparation of quarterly progress reports and submittal of the draft and Final Project Report. These activities will include providing regularly updated information regarding project status, costs, scheduling, and the anticipated activities going into the next quarter. NID staff (and/or a qualified consultant) will submit all reports on a timely basis.

#### Deliverables:

- Quarterly Progress Reports
- Draft Project Report
- Final Project Report
- Other reports as required by DWR