

**Grant Agreement 4600012219
Amendment 1
Under the 2016 Proposition 1 Integrated Regional Water Management (IRWM)
Disadvantaged Community Involvement Grant Program**

**State of California
Natural Resources Agency
Department of Water Resources**

**Agreement Between the State of California
Department of Water Resources
and Tulare County**

This amendment to Agreement 4600012219 is made on _____ . The agreement is amended as follows:

Project Representative

The DWR Project Representative is updated in Paragraph 21 of the Agreement.

Exhibit A Work Plan

The work plan is revised per the attached for Activity 4.

Exhibit B Budget

The budget is revised per the attached for Activity 4.

IN WITNESS WHEREOF, the parties hereto have executed this amendment on the date first written above.

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

TULARE COUNTY

Carmel K. Brown, P.E., Chief
Financial Assistance Branch
Division of Regional Assistance

Pete VanderPoel
Chairman of the Board
County of Tulare Board of Supervisors

Date _____

Date _____

Approved as to Legal Form and Sufficiency

Robin Brewer, Assistant Chief Counsel
Office of Chief Counsel

Date _____

19. NOTICES. Any notice, demand, request, consent, or approval that either party desires or is required to give to the other party under this Grant Agreement shall be in writing. Notices may be transmitted by any of the following means:

- a) By delivery in person.
- b) By certified U.S. mail, return receipt requested, postage prepaid.
- c) By "overnight" delivery service; provided that next-business-day delivery is requested by the sender.
- d) By electronic means.

Notices delivered in person will be deemed effective immediately on receipt (or refusal of delivery or receipt). Notices sent by certified mail will be deemed effective given ten (10) calendar days after the date deposited with the U. S. Postal Service. Notices sent by overnight delivery service will be deemed effective one business day after the date deposited with the delivery service. Notices sent electronically will be effective on the date of transmission, which is documented in writing. Notices shall be sent to the addresses set forth in Paragraph 21. Either party may, by written notice to the other, designate a different address that shall be substituted for the one below.

20. PERFORMANCE EVALUATION. Upon completion of this Grant Agreement, Grantee's performance will be evaluated by the State and a copy of the evaluation will be placed in the State file and a copy sent to the Grantee.

21. PROJECT REPRESENTATIVES. The Project Representatives during the term of this Grant Agreement are as follows:

Department of Water Resources
Arthur Hinojosa
Chief, Division of Regional Assistance
P.O. Box 942836
Sacramento CA 94236-0001
Phone: (916) 653-4736
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Tulare County
Denise England
Water Resources Program Director
2800 W. Burrel Avenue
Visalia, CA 93291
Phone: (559) 636-5027
e-mail: DEngland@co.tulare.ca.us

Direct all inquiries to the Project Manager:

Department of Water Resources
Craig Cross
Division of Regional Assistance
901 P Street, Room 213A
Sacramento, CA 94236-0001
Phone: (916) 651-9204
e-mail: Craig.Cross@water.ca.gov

Tulare County
Denise England
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2800 W. Burrel Avenue
Visalia, CA 93291
Phone: (559) 636-5027
e-mail: DEngland@co.tulare.ca.us

**EXHIBIT A
WORK PLAN**

Projects listed below are the result of work performed in Activity 4 and have been approved by the Policy Advisory Committee.

4.A Extended Pump Test for the Community of Lemon Cove

This project will perform 15-day pump test to enable Lemon Cove Sanitary District to verify the water quality and quantity from its two new wells, and support finalizing design. The wells are both located north of the community of Lemon Cove, near Road 248 and north of Hwy198.

Task 4.A.1 Implementation Activities

Conduct a 15-day pump test to determine the Lemon Cove Sanitary District well water quality and quantity available. Conduct a Hydrogeological Analysis of the pump test results for water quality and quantity. Maintain a log plot of the pumping rates. Collect water samples at the end of the pumping period. Make recovery measurements for the first day of recovery period, receive updates for the rest of the two-week recovery period, and plot the water level recovery. Determine the long-term yield of each well and prepare a letter report on the pump test results.

Task 4.A.2 Design

Incorporate the results and analysis of the pump test into the production well design plans. Prepare updated Design Criteria.

Deliverables:

- Pump Test Results Letter QA/QC Protocols
- Updated Design Criteria document
- Photographic documentation

4.B Water Treatment Plant Improvements for Pond Union School

This project will replace existing equipment that has failed over the years since the arsenic treatment plant went online in 2011. In addition to replacing equipment, additional consumables such as field test kits will be purchased to allow for troubleshooting. Upgrading the arsenic treatment plant to replace failing equipment will provide smoother operation of the plant and to consistently meet drinking water standards. Pond Union School is located off Pond Road in the town of Wasco.

Task 4.B.1 Implementation Administration

Activities include completing the purchase and installation of the items identified by Pond School water system's certified contract water system operator, McMor Water Services Company, in their proposal. GEI will conduct periodic check-ins with McMor to confirm the replacement of parts will be completed on schedule.

Task 4.B.2 Implementation

The certified contract water system operator, McMor Water Services Company, for Pond School has recommended the following items, which are necessary for the reliable performance of the arsenic treatment plant in meeting drinking water standards for arsenic.

- **Stenner Chemical Metering Pumps:** The installation of three additional chemical metering pumps allows for redundancy. There is currently no backup system in place. If one needs repairs or fails, the treatment plant may continue operation.
- **Field Arsenic Test Kit:** This is a recurring consumable expense item. Each test kit contains about 100 tests. Having a field test kit available allows for quick troubleshooting instead of waiting for lab results.
- **HACH Chlorine and Iron Field Test Kit:** Current HACH Pocket Colorimeter unit is old and produces unreliable results. Having a more current unit allows for more accurate readings. This line item also includes the consumable test kits and is used for the same reasons as the field arsenic test kit mentioned above.
- **Grundfos Booster Pumps:** This additional booster pump provides reliability for the water system. As mentioned earlier, there is no backup system in place and the treatment plant treats the only well that's the source of supply.
- **Backwash Tank – Hazardous Contents Disposal:** Sludge from the backwash tank has not been removed since the treatment plant went online in 2011. Accumulated sludge is reaching capacity and needs to be removed for continual operation of the arsenic treatment plant.
- **Re-pipe PVC SCH 80 (filter influent and effluent):** There have been leaks on the treatment plant influent and effluent pipelines. Piping needs to be replaced to provide adequate flow to and from the arsenic treatment plant.
- **Signet Flow Meter (influent and backwash):** Both flow meters are currently non-operational. It is important to monitor flow going into the treatment plant and for the backwash flow meter to monitor when a backwash cycle will be initiated.
- **Electric Actuation Valves:** The four actuation valves are currently broken, and valves need to be manually controlled.

4.C City of Huron Community Test Well and Hydrogeological Investigation

The City of Huron will perform a hydrogeological investigation that will include drilling a test well at a site within the city of Huron to identify the quantity and quality of groundwater available.

Task 4.C.1 Design

Complete preliminary design including the following supportive work: mapping of the proposed well location and development of a cost estimate to produce 100% final design, plans, and specifications. Based on the findings of the test well, final design documents will be prepared.

Deliverables:

- 100% Test Well Design Plans and Specifications
- 60% Full-Scale Production Well Design Plans and Specifications

Task 4.C.2 Construction Contracting

Activities necessary to secure a contractor and award the contract include: develop bid documents, prepare advertisement and contract documents for construction contract bidding, conduct pre-bid meeting, bid opening and evaluation, selection of the contractor, award of contract, and issuance of notice to proceed.

Deliverables:

- Bid documents
- Proof of Advertisement
- Award of contract

Task 4.C.3 Construction Administration

Review contractor submittals, answer requests for information, and issue work directives. An engineering construction observer will be on site, as appropriate, for the duration of the project. Construction observer duties include: documenting of pre-construction conditions, daily construction diary, preparing change orders, addressing questions of contractors on site, reviewing/ updating project schedule, reviewing contractor log submittals and pay requests, forecasting cash flow, notifying contractor if work is not acceptable.

Deliverables:

- Notice of Completion

Task 4.C.4 Construction/Implementation Activities

Construction activities will generally include:

4.C.4.1 Mobilization and Site Preparation: Transport equipment, operating supplies, and portable sanitary facilities to and from the site(s). Ensure that all tools, accessories, power, fuel, materials, supplies, and lighting required for the construction of the project will be provided.

4.C.4.2 Project Construction: Drill test wells and prepare technical memo. The depth of the test wells will be approximately 250-300 feet and follow California Department of Water Resources guidelines. A test hole shall be drilled using the direct rotary method. The hole shall be drilled at a diameter of approximately 8 inches. The final depth of the test hole will depend on the data encountered while drilling and will be determined by the city. Well logs will be maintained. Each test well will have monitoring equipment installed to record falling and static head.

4.C.4.3 Well Water Sampling: Test the well water quality in a certified lab. Lab testing includes but is not limited to: volatile organic compounds, nitrates, nitrites, phosphorus, total suspended solids, total dissolved solids, electrical conductivity, pH, turbidity, bicarbonates, and 17 metals including arsenic, boron, barium.

4.C.4.4 Project Close Out, Inspection, and Demobilization: Inspect project components and establish that work is complete. Verify that all project components have been installed and are functioning as specified. Conduct project completion photo monitoring. Prepare record drawings.

Deliverables:

- Photographic documentation
- Well water test results and report
- Hydrogeological Investigation Report
- Record Drawings

Task 4.C.5 Permitting: Obtain all necessary federal, state, and local permits. Permits may include Fresno County Well Drilling Permits. Additional permits may be required and will be obtained as necessary.

Deliverables:

- Copy of all required permits

Task 4.C.6 CEQA Documentation

Prepare all necessary CEQA documentation. Prepare letter stating no legal challenges for (or addressing legal challenges).

Deliverables:

- Copy of applicable environmental documentation
- Legal Challenges letter

4.D Lake of the Woods Meters and Water Supply, Loss, Use and Rate Study

The project will complete water meter installation and perform a Water Supply, Loss, Use and Rate Study in the community of Lake of Woods. Lake of Woods Mutual Water Company (LOWMWC) previously received funds to install radio-read meters at but was unable to complete the project as originally envisioned. The radio-read meters were installed on their customer connections, but not at the LOWMWC well sites. The project will allow the full scope of radio-read meters and software to be installed and a study to identify water losses within the LOWMWC water distribution system.

Task 4.D.1 Design/Implementation/Contract Services: Includes activities necessary to secure a contractor purchase order for procurement of new meters, radio-read devices and meter data software. The new meters will be installed in the discharge piping of the system's five wells by Lake of the Woods Municipal Water Company's on-call system operator. The meter software will be installed on system's computers by LOWMWC's office manager or their information technology consultant.

Water Meter Installation

The water meters will be installed on the discharge piping at each of the five (5) well sites that serve the community. A short section of the discharge piping will be cut and removed and replaced with a new meter. Staff will record meter serial number being associated with each location address so the water production information can be collected, monitored and compared to water usage data collected from the system's approximately 400 existing residential and commercial water meters.

Water Meter Transponder and Software Upgrade Installation

The work will be conducted by water company staff and involves installing the water meters transponders on the well sites and water meter data software on the water company's computers.

Water Loss and Efficiency Study

Monitor meter data for monthly water use and losses in distribution system; as well as excessive water losses at home meters. Contact users where water use is high and provide water conservation follow-up to check on water loss. Tabulate monthly water production use and losses and produce a report. Outreach to water system users on water study, water conservation and metered rate development with rate options.

Deliverables:

- Water Loss Technical Memorandum
- Methodology for water supply, use, leak and rate study
- QA / QC procedures
- Public Notification Flyers

4.E East Orosi Land Acquisition, Well and Pipeline Design and Environmental Documents Project

The Project will prepare construction documents (plan, specs and estimates at 30%) and environmental documents (CEQA IS/MND and NEPA cross-cutter documents (CEQA-Plus)) for a production well, pipeline and possible storage tank intended to resolve EOCSD's nitrate contamination. A Preliminary Engineering Report and a test well was accomplished with previous funding; this Project will resolve remaining technical questions. East Orosi Community Services District will also utilize grant funding to acquire the test well site for eventual conversion to a production well. Future funding for well construction is anticipated to be applied for through the SWRCB's DWSRF grant program.

Task 4.E.1

Prepare conceptual engineering and associated design documents.

Deliverables:

- 30% Conceptual Engineering Plans.
- Equipment and Materials Specifications
- Preliminary Engineer's Opinion of Probable Construction Costs for both identified alternatives.

Task 4.E.2 Land Acquisition

Purchase or acquire rights to develop the minimum amount of land required to complete the project.

Deliverables:

- Receipts of Agreement fees
- Third Party Property appraisal or other proof of fair market value
- Purchase agreement
- Proof of completion of acquisition in the form of title and agreement
- Appraisal documentation, Copy of Deed of Title for property and easements

Task 4.E.3 Environmental Documentation

Prepare environmental documents (CEQA IS/MND and NEPA cross-cutter documents (CEQA-Plus)) so that the Project can apply for future grant funding including IRWM Implementation funds.

Deliverables:

- Draft and Final CEQA/ NEPA documents
- Copy of Public Notices
- Public Hearing Minutes (If applicable)

4.F Land Acquisition Weldon Regional Water Project Well Site

This Project will acquire land for development of a future production well site near the community of Weldon. The Weldon area has uranium & nitrate contaminated wells and lack a back-up water supply that would be supplemented by development of a production well at Well Site 02. Production well funding will be applied for from the SWRCB's DWSRF's Safe and Affordable Drinking Water Fund, and Proposition 68 funds.

Task 4.F.1 Land Acquisition

The project will require purchase of 1 acre of land to develop the minimum amount of land needed to complete the project. Land is located in Weldon off Hwy 178 near Fay Ranch Road.

Deliverables:

- Executed Easement agreement, if necessary, filed with County Recorder's office
- Receipts of Agreement fees
- Third Party Property appraisal of fair market value, if necessary
- Purchase agreement, if necessary
- Proof of completion of acquisition in the form of title and agreement if, necessary
- Appraisal documentation, copy of Deed of Title for property and easements, if necessary

**EXHIBIT B
 BUDGET**

#	Activity	Grant Amount
1	Grant Administration	\$498,000
2	DAC Engagement and Involvement	\$550,000
3	Needs Assessment	\$350,000
4	Project Development	\$1,734,640
4A	Extended Pump Test for the Community of Lemon Cove	\$70,000
4B	Water Treatment Plant Improvements for Pond School	\$20,000
4C	City of Huron Community Test Well and Hydrogeological Investigation	\$80,000
4D	Lake of the Woods Meters and Water Supply, Loss, Use and Rate Study	\$32,000
4E	East Orosi Land Acquisition, Well and Pipeline Design and Environmental Documents Project	\$15,360
4F	Land Acquisition Weldon Regional Water Project Well Site	\$50,000
Total		\$3,400,000

Certificate Of Completion

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Signer Events

Signature	Timestamp
Pete VanderPoel pvanderpoel@co.tulare.ca.us Security Level: Email, Account Authentication (None)	Sent: 3/25/2020 4:35:59 PM
Electronic Record and Signature Disclosure: Not Offered via DocuSign	

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Denise England denland@co.tulare.ca.us Water Resources Director Security Level: Email, Account Authentication (None)	Sent: 3/24/2020 2:47:09 PM Viewed: 3/25/2020 4:35:59 PM

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Accepted: 3/25/2020 4:35:59 PM
ID: 97af4b11-7698-41c2-a9ed-664926f4a357

Carbon Copy Events

Status	Timestamp
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Craig Cross
craig.cross@water.ca.gov
Security Level: Email, Account Authentication (None)

Electronic Record and Signature Disclosure:
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Witness Events

Signature	Timestamp
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Notary Events

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Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	3/25/2020 4:35:59 PM
Payment Events	Status	Timestamps
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How to contact Department of Water Resources:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by phone call: (916) 653-5791

To contact us by paper mail, please send correspondence to:

Department of Water Resources

P.O. Box 942836

Sacramento, CA 95236-0001

To advise Department of Water Resources of your new e-mail address

To let us know of a change in your e-mail address where we should send notices and disclosures electronically to you, you must send an email message to us at don.davis@water.ca.gov and in the body of such request you must state: your previous e-mail address, your new e-mail address. We do not require any other information from you to change your email address..

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Required hardware and software

Operating Systems:	Windows2000? or WindowsXP?
Browsers (for SENDERS):	Internet Explorer 6.0? or above
Browsers (for SIGNERS):	Internet Explorer 6.0?, Mozilla FireFox 1.0, NetScape 7.2 (or above)
Email:	Access to a valid email account

Screen Resolution:	800 x 600 minimum
Enabled Security Settings:	<ul style="list-style-type: none"> • Allow per session cookies • Users accessing the internet behind a Proxy Server must enable HTTP 1.1 settings via proxy connection

** These minimum requirements are subject to change. If these requirements change, we will provide you with an email message at the email address we have on file for you at that time providing you with the revised hardware and software requirements, at which time you will have the right to withdraw your consent.

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