A REGULAR MEETING OF THE BOARD OF DIRECTORS
OF THE TWENTYNINE PALMS WATER DISTRICT
72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277

March 27, 2024 / 4:00 P.M.

AGENDA

This meeting may be viewed on the District's website at www.29palmswater.net
The Board reserves the right to discuss only or take action on any item on the agenda.

Next Resolution #24-03
Next Ordinance #104

Call to Order and Roll Call
Please make sure all cell phones are silenced.

Pledge of Allegiance

Additions/Deletions to the Agenda

Public Comments
Please complete a "Request to be Heard" form prior to the start of the meeting. The public may address the Board for 3 minutes on District-related matters. Government Code prohibits the Board from taking action on matters that are not on the agenda. However, the Board may refer matters for future consideration.

1. Consideration of Resolution 24-02 Intention to Continue Currently Existing Water Availability Assessments of the Twentynine Palms Water District in the Upcoming Fiscal Year 2024/2025

2. Nomination for Regular Special District Member of the Local Agency Formation Commission (LAFCO) for San Bernardino County

3. Review and Award Engineering Services for Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant

4. Formation of an Ad Hoc Committee for Employee MOU Contract

5. Consent Calendar
   Matters under the Consent Calendar are to be considered routine and will be enacted in a single motion. There will be no separate discussion of these items unless the Board, staff or the public requests specific items be removed for separate discussion and action before the Board votes on the motion to adopt.

   - Minutes of the Regular Meeting held on February 28, 2024
   - Audit List

6. Items Removed from the Consent Calendar for Discussion or Separate Action

7. Management Reports

7.1 Maintenance

7.2 Water Quality

7.3 Finance

7.4 General Manager

8. Future Agenda Items and Staff Tasks/Directors' Comments and Reports

9. Adjournment

Notice of agenda was posted on or before 4:00 p.m., March 22, 2024.

Matthew Shragge, General Manager

Upon request, this Agenda will be made available in appropriate alternative formats to persons with disabilities, as required by Section 202 of the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to Cindy Fowlkes at (760) 367-7546 at least 48 hours before the meeting, if possible.

Pursuant to Government Code Section 54957.5, any writing that: (1) is a public record; (2) relates to an agenda item for an open session of a regular meeting of the Board of Directors; and (3) is distributed less than 72 hours prior to that meeting, will be made available for public inspection at the time the writing is distributed to the Board of Directors. Any such writing will be available for public inspection at the District offices located at 72401 Hatch Road, Twentynine Palms, CA 92277. In addition, any such writing may also be posted on the District's website.

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TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	MARCH 15, 2024
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	CONSIDERATION TO APPROVE AND ADOPT RESOLUTION 24-02 INTENTION TO CONTINUE CURRENTLY EXISTING WATER AVAILABILITY ASSESSMENTS OF THE TWENTYNINE PALMS WATER DISTRICT IN UPCOMING FISCAL YEAR 2024/2025

BACKGROUND AND DISCUSSION

The Twentynine Palms Water District is authorized by California Water Codes 31031.7 and 31032 to annually fix water availability assessments on parcels of real property within the District to which water is made available for any purpose by the District.

The District currently has a Water Availability Assessment in place that is levied on all parcels within the District, with the exception of properties that were designated as "fire only" properties (within certain annexation areas) and properties owned by the California Bureau of Land Management. The assessments are collected through San Bernardino County property tax bills and the funds are used to pay for capital improvement projects, operational expenses, and maintenance costs associated with the District's water system and facilities.

Current assessment fees are charged as follows:

- $30.00 for each parcel that is less than one acre,
- $30.00 for the first acre, plus $8.00 per acre for each acre over one acre up to five acres in a parcel, and
- $7.50 per acre for the sixth and all further acres within a parcel, subject to a maximum per parcel charge of $1,200.00.

Pursuant to Water Codes Sections 31031 and 31032.1, since the procedures set forth in the Water Code were followed at the time the assessments were originally established, the Board of Directors is authorized to continue the assessments in successive years at the same rates. If rates set forth in the assessment were proposed to be changed, then the procedures of Proposition 218 would need to be followed.

RECOMMENDATION

Staff is making the recommendation that the Board approves Resolution 24-02, Intention to Continue Currently Existing Water Availability Assessments of the Twentynine Palms Water District In Upcoming Fiscal Year 2024/2025.

RESOLUTION NO. 24-02

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TWENTYNINE PALMS WATER DISTRICT OF INTENTION TO CONTINUE CURRENTLY EXISTING WATER AVAILABILITY ASSESSMENTS OF THE TWENTYNINE PALMS WATER DISTRICT IN THE UPCOMING FISCAL YEAR 2024/2025

WHEREAS, The Twentynine Palms Water District is authorized to annually fix water availability assessments on parcels of real property within the District to which water is made available for any purpose by the District, whether the water is actually used or not;

WHEREAS, such water availability assessments may vary according to land uses and the degree of availability or quantity of use of such water; and,

WHEREAS, the proposed water availability assessments are intended to fund, as in the past, the capital costs or operation and maintenance expenses of District water system facilities serving water, among other purposes, for domestic consumption and property related purposes.

WHEREAS, pursuant to Water Code Sections 31031 and 31032.1, since the procedures set forth in the Water Code were followed at the time the assessments were originally established, the Board is authorized to continue the assessments in successive years at the same rates.

WHEREAS, since the assessments are proposed to be continued at the same rate and not increased, the procedures of Proposition 218 are not applicable.

NOW, THEREFORE, BE IT RESOLVED that this Board of Directors of the Twentynine Palms Water District does hereby propose to fix water availability assessments as follows:

$30.00 for each parcel that is less than one acre,

$30.00 for the first acre, plus $8.00 per acre for each acre over one acre up to five acres in a parcel, and

$7.50 per acre for the sixth and all further acres within a parcel, subject to a maximum per parcel charge of $1,200.00.

BE IT RESOLVED FURTHER, that said proposed water availability assessments are <u>not</u> intended to be imposed in areas annexed to the District under the condition that "fire

only" service be provided by the District, or, pursuant to the district's existing agreement with the San Bernardino County Local Agency Formation Commission, within the Joe Davis or South Hansen annexation areas;

BE IT RESOLVED FURTHER, that the District shall receive and discuss public comments on said water availability assessments at a public hearing to be held on June 26, 2024 at 4:00 p.m. with the public hearing to occur at the Twentynine Palms Water District, 72401 Hatch Road, Twentynine Palms, California; and,

BE IT RESOLVED FURTHER, that the District's Secretary shall cause due legal notice of the public hearing of June 26, 2024 at 4:00 p.m., pursuant to written advice from the District's legal counsel.

PASSED, APPROVED AND ADOPTED this 27th day of March 2024.

Ayes:
Noes:
Abstain:
Absent:

_____
Carol Giannini, President
Board of Directors

Attest:

_____
Matthew Shragge, Board Secretary
Twentynine Palms Water District

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TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	MARCH 15, 2024
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	NOMINATION FOR REGULAR SPECIAL DISTRICT MEMBER ON THE LOCAL AGENCY FORMATION COMMISSION (LAFCO) FOR SAN BERNARDINO COUNTY

BACKGROUND

What are LAFCOs? LAFCOs are Local Agency Formation Commissions. The Legislature has the constitutional power to control city and special district boundaries by itself, it prefers to have these county-level commissions regulate local boundaries because they are closer to the people. Counties have vastly different people, geography, and governing institutions. Regulating local boundaries at the local level recognizes this diversity. Therefore, the Legislature authorizes a LAFCO in each county to determine the boundaries of the cities and special districts in that county.

The San Bernardino LAFCO is composed of seven voting members, with four alternate members who vote only in the absence or abstention of a voting member. The seven members and their alternates represent all levels of local government. Two members are elected county supervisors and are selected by the Board of Supervisors. Two members are elected city council members and are selected by the mayors of the twenty-four cities within San Bernardino County. Two members are elected members of a special district board of directors and are selected by the presidents of the fifty-one independent special district in San Bernardino County. These six elected officials select a "public" member who is not affiliated with county, city, or special district governments. Alternate members for the county, city, special district, and public categories are selected in the same manner. Each commissioner and alternate serves a four year term.

Currently, we have four members of San Bernardino LAFCO that have very strong relationships to our local communities. Jim Bagley is the public member from 29 Palms. Dr. Kimberly Cox is the special district member from Mojave Water Agency. Rick Denison is the alternate city member from the town of Yucca Valley. Dawn Rowe is the alternate county member who is our local County Supervisor.

Dr. Kimberly Cox is the regular voting member for special districts with her term expiring on May 6, 2024. Dr. Cox had indicated her intention to run for the position. Attached with this memo is a letter from LAFCO's Executive Officer Samuel Martinez, the nomination form from LAFCO for the Regular Special District Member, and a bio for Dr. Cox taken from the Mojave Water Agency web-site.

FISCAL IMPACTS

There will no fiscal impact for the District on making this nomination.

RECOMMENDATION

Staff is making the recommendation that we nominate Dr. Kimberly Cox as the Regular Special District Member for the San Bernardino County's Local Agency Formation Commission.

LAFCO

SENT VIA U.S. MAIL AND E-MAIL

February 23, 2024

TO: Presidents of the Boards of Directors of the Independent Special Districts in San Bernardino County

SUBJECT: Special Districts Selection Committee

This letter officially opens the nomination period for the position of Regular Special District member on the Local Agency Formation Commission (LAFCO) for San Bernardino County. The regular voting member position is currently held by Kimberly Cox from Mojave Water Agency, whose term of office is scheduled to expire May 6, 2024 pursuant to the provisions of Government Code Section 56334. Dr. Cox has indicated her intention to run for the position again.

The nomination period for this position will open on Monday, February 26, 2024, and end at 5:00 p.m. on Thursday, March 28, 2024.

Per LAFCO's procedures, the signed original nomination form:

- Requires a board vote, with the name of each voting Board Member outlined, and certifying signature with date.

- Must be received in the LAFCO office by 5:00 p.m, on **March 28, 2024**, via mail, fax, or email scan.

  If a copy of the nomination form is provided by fax or email by the March 28 deadline, LAFCO must receive the original signed copy by 5:00 p.m. on **April 4, 2024**, or the nomination will be declared invalid.

Enclosed with this letter is a sample nomination form for the position outlining the date of the action and District Board vote. Nominations submitted without a date will be returned to the District and will need to be re-submitted within the nomination period in order to be considered valid. If only a single candidate is nominated for the position, pursuant to the provision of Government Code Section 56332(f)(2), that candidate shall be deemed selected with no further vote required.

At the end of the nomination period, LAFCO staff will prepare and send, by certified mail, to each independent special district a ballot with the candidates nominated and the voting instructions.

A long-standing policy of the Selection Committee is to encourage balanced geographic representation with valley, desert and mountain districts seated on the Commission as voting or alternate members [Policy 2 of Section VI (Special Districts) of LAFCO Policy and Procedure Manual]. The position up for nomination is currently represented by the desert area.

Please let me know if you have any questions concerning the nomination process. You may contact me at the address listed above, by email at smartinez@lafco.sbcounty.gov, or by phone at (909) 388-0480.

Sincerely,

SAMUEL MARTINEZ
Executive Officer

SM/as

Enclosure: Regular Member Nomination Form

Kimberly Cox
President

Kimberly Cox was first elected to the Board of Directors in 2003, representing Division 1. As a resident of the High Desert since 1985, she brings professional experience in city government and special districts, as well as expertise in water management to the Mojave Water Agency board.

Currently, Dr. Cox serves as the General Manager for the Helendale Community Services District, a position she has held since 2007. She previously worked for the cities of Hesperia and Victorville, and as an instructor at Victor Valley College.

A recognized water expert, Cox was appointed in 2013 and reappointed twice by Governor Edmund G. Brown, Jr. to serve on the Lahontan Regional Water Quality Control Board. Lahontan RWQCB is responsible for protecting water quality within Region 6 of the state. There are nine RWQCB regions in California.

Additionally, Dr. Cox has served on the San Bernardino County Local Agency Formation Commission (LAFCO) since 2004 representing special districts. She has also served on the San Bernardino County Solid Waste Task Force representing special districts. Cox was a contributing author for the Special Districts Formation Guide available through the California Special Districts Association (CSDA).

She holds a Bachelor of Science degree in Business Management and a Master's degree in Public Administration with an emphasis in Water Resource Management and a Doctorate in Public Administration.

NOMINATION FOR
REGULAR SPECIAL DISTRICT MEMBER
OF THE
LOCAL AGENCY FORMATION COMMISSION

The _____
(Name of District)

hereby nominates the following person for the position on the Local Agency Formation Commission

_____ REGULAR SPECIAL DISTRICT MEMBER
(Name of Nominee)

I, _____, do hereby certify that at a
(Name of President or Designee of District)
scheduled meeting of _____, the Board of Directors voted to nominate the above-identified candidate for the Regular Special District Member of the Local Agency Formation Commission of San Bernardino County, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

_____
District President/Authorized Board Member

Dated: _____

Attach – Letter of Interest or Resume of Nominee

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TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	MARCH 19, 2024
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	REVIEW AND AWARD ENGINEERING SERVICES FOR REDUNDANT TREATED WATER RESERVOIR AND BOOSTER PUMP STATION PROJECT AT THE FLUORIDE REMOVAL PLANT

BACKGROUND

The District is currently looking to build a redundant 200,000 gallon finish water reservoir and booster pump station located at the Fluoride Removal Plant. The significance of this project give the District the flexibility at the treatment plant to allow the existing finish water reservoir to be taken out of service for cleaning and repairs, while allowing the plant to remain operational. The treatment facility produces just a little over 2.5 million gallons of treated water per day. This facility is very important for daily operations within the District, and in summer months could not be down for a long period of time.

On January 10, District staff and ESG (Engineered Solutions Group) Engineering put out an RFP (Request for Proposal) on Public Purchase.com for Preliminary and Final Design Engineering Services for Redundant Treated Water Reservoir and Booster Station at the Fluoride Removal Plant. January 25, there was a mandatory pre-proposal site meeting at the treatment plant with proposals due on February 20. District staff received two proposals for the engineering services at the treatment plant. Attached to the staff report is the RFP from the District for engineering services and two proposals from Albert A. Webb Associates and Kennedy Jenks Consultants, Inc.

After receiving the two proposals, a review team was put together. The review team consisted of Marina West, General Manager of Bighorn-Desert View Water Agency, Michael Thomas, CEO/Director of Engineering of ESG, and Matthew Shragge, General Manager of Twentynine Palms Water District.

Both proposals were scored on a scale of 0-100 in accordance with the criteria set in the RFP:

1. The quality of performance on past projects, by both the Project Managers, principal design engineer, and firm, largely influenced by reference checks (25%)
2. Expertise in the field of above ground water reservoirs and booster pump stations as demonstrated by the reference check (20%)
3. Project understanding and approach (20%)
4. Fee proposal (30%)
5. Quality of proposal (5%)

The final scoring results from the review team was Albert A. Webb Associates **98** and Kennedy Jenks Consultants, Inc. **81.4**. The scoring difference main element was the fee proposal, Albert A. Webb coming in at $216,669 (two hundred sixteen thousand six hundred sixty-nine dollars) and Kennedy Jenks Consultants, Inc. with a price of $332,102 (three hundred thirty-two thousand one hundred two dollars). The review team scored Webb slightly higher in their project approach (Webb proposed to finish the project sooner) and reference checks. The review team was unanimous in their recommendation and score for the project. Attached in the staff report is a memo from ESG Engineering.

FISCAL IMPACTS

In fiscal year budget 2023/24 there is $400,000 (four hundred thousand dollars) for engineering service for water reservoir and booster station at treatment plant.

RECOMMENDATION

Staff is making the recommendation that the Board allow the General Manager to negotiate and sign contract with Albert A. Webb Associates, not to exceed $250,000 (two hundred fifty thousand dollars) for engineering service at the Fluoride Removal Plant for the new Redundant Treated Water Reservoir and Booster Station.

Twentynine Palms Water District

Memo

To: Matt Shragge, General Manager, Twentynine Palms Water District

From: Michael Thomas, CEO, Engineered Solutions Group, Inc.

Date: March 14, 2024

Re: Recommendation Based on Redundant Tank RFP Process

Twentynine Palms Water District (TPWD or District) and Engineered Solutions Group (ESG) recently completed our review and scoring of the Request for Proposals (RFP) for the Preliminary and Final Design Engineering Services for the Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant.

Based on the review, the review team recommends hiring Albert A. Webb Associates (Webb) to perform the work described in the RFP and as proposed by Webb.

Project Scope

The District currently has an existing above grade approximately 200,000 gallon treated water reservoir and associated booster pump station located at their Fluoride Removal Plant. The reservoir functions as a clearwell providing adequate contact time after hypochlorite injection. The pump station consists of two (2) 2,100 gpm, 250 motor hp pumps that transfer the treated water into the nearby elevated reservoir located on Singing Sands Road, and into the distribution system.

The District requires redundancy during maintenance of the system; therefore, the District proposes to construct a similar 200,000 gallon (capacity to be confirmed by owner) above grade reservoir and booster pump station. These facilities will provide sufficient flexibility so the existing tanks can be taken out of service for cleaning and repairs.

To maintain operational consistency of the new tank with the existing tank, the new tank and pump station will mimic the existing facilities.

RFP Process

TPWD hired ESG to act as the Owner Engineer and to assist with the RFP process. TPWD posted the RFP (attached) on publicpurchase.com on January 10, 2024 and is attached for reference. A mandatory pre-proposal meeting was held at the plant, and Addendum 1 (attached) to the RFP was posted on February 7, 2024. TPWD received proposals (attached) from Kennedy/Jenks Consultants, Inc. (KJ) and from Albert A. Webb Associates.

The review team consisted of:

- Matt Shragge, GM, TPWD
- Marina West, GM, Bighorn-Desert View Water Agency
- Michael Thomas, CEO/Director of Engineering, ESG

Both proposals were scored on a scale of 0-100 in accordance with the criteria set in the RFP:

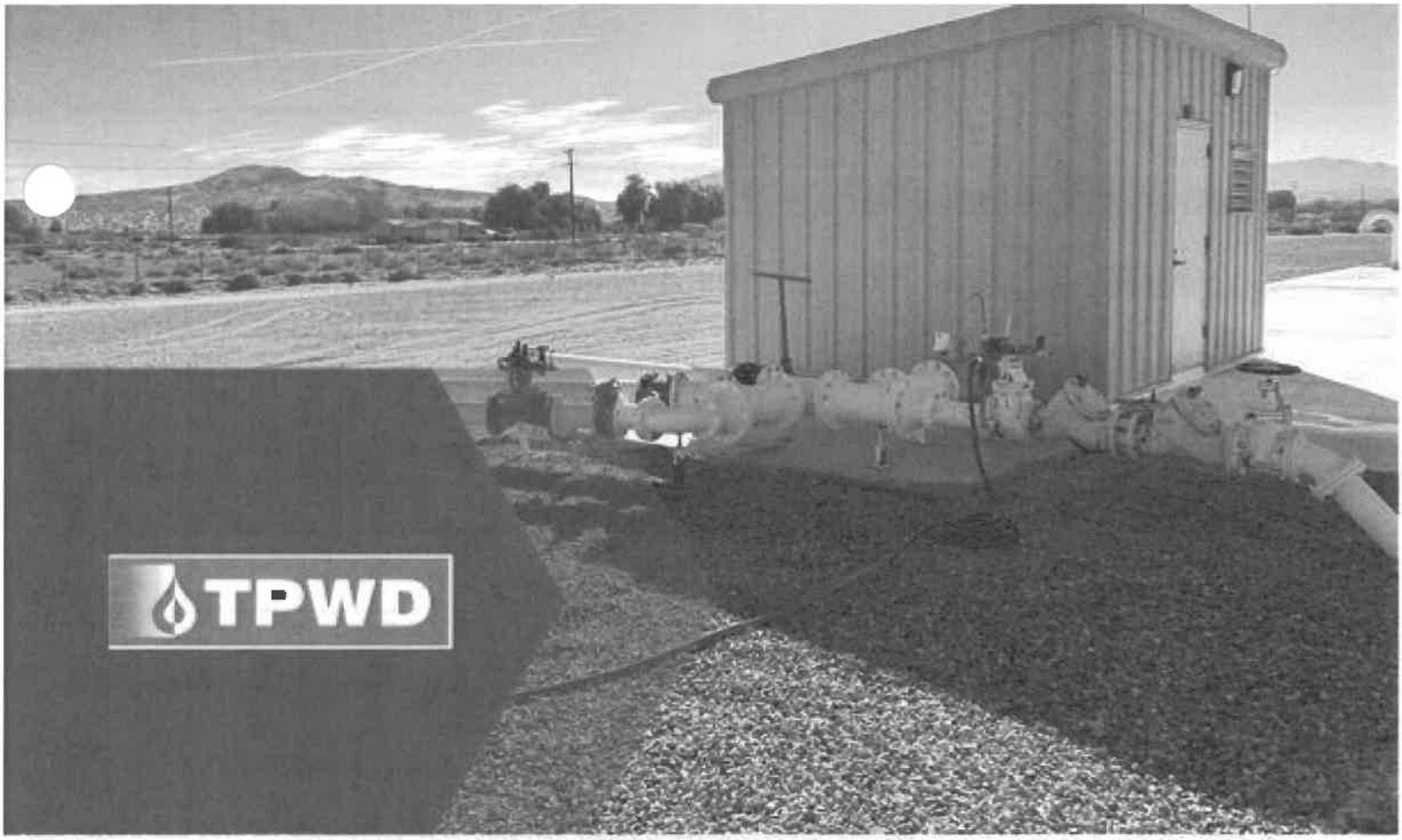
1) The quality of performance on past projects (submitted project review), by both the Project Manager, principal design engineer, and firm, largely influenced by reference checks (25%)
2) Expertise (resume review) in the field of above ground water reservoirs and booster pump stations as demonstrated by reference check (20%)
3) Project understanding and approach (20%)
4) Fee proposal (30%)
5) Quality of proposal (5%)

Scoring Results

Final scoring:

Albert A. Webb Associates	98.0
Kennedy/Jenks Consultants, Inc.	81.4

The scoring difference was predominantly influenced by the fee proposals. The review team also scored Webb slightly higher in their project approach (Webb proposed to finish the project sooner) and reference checks. The review team was unanimous in their recommendation. Should TPWD be unable to reach final agreement with Webb, it is recommended that the District commence negotiations with KJ as their proposal demonstrated that they are qualified to perform the work.



TPWD

PROPOSAL TO PROVIDE PRELIMINARY AND FINAL DESIGN ENGINEERING SERVICES FOR

REDUNDANT TREATED WATER RESERVOIR AND BOOSTER PUMP STATION PROJECT AT THE FLUORIDE REMOVAL PLANT

February 20, 2024

ALBERT A. WEBB ASSOCIATES

www.webbassociates.com

Table of Contents

Section 1. Cover Letter

February 20, 2024

ALBERT A. WEBB ASSOCIATES

Matt Shragge
General Manager
Twentynine Palms Water District
72401 Hatch Road
Twentynine Palms, CA, 92277

RE: Request for Proposals for Preliminary and Final Design Engineering Services for Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant

Dear Mr. Shragge:

Enclosed is Albert A. Webb Associates' (WEBB) proposal to provide preliminary and final design engineering services for the Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant for the Twentynine Palms Water District (District). The District needs a trusted and experienced technical team to manage and lead this project and WEBB has the resources and experience to be that team.

Firm Background

Established in 1945, WEBB stands as a financially stable and reputable civil engineering and planning firm. Our team comprises over 180 associates, bringing diverse in-house expertise to address all client needs comprehensively. As a multidisciplinary firm, we are well-equipped to provide a full spectrum of services required for this project. Our proposal is designed to meet the District's objectives by offering a tailored approach that incorporates the preliminary and final design phases, as detailed in the Scope of Work section of the Request for Proposal (RFP). Our team is prepared to leverage our extensive experience and technical capabilities to deliver a project that not only meets but exceeds the District's expectations.

Project Team

- Principal-in-Charge, Bruce Davis, PE, brings specialized expertise in managing multidisciplinary projects
- Project Manager Siming Zhang, PE, offers extensive experience in potable water booster stations and water pipeline design
- Principal Engineer Ricardo Perez, PE, will lend his expertise in potable water storage facilities
- Our key personnel, committed to this project, will be available as proposed for its entire duration
- The project teams, operating from our corporate office, have a proven track record of working collaboratively on similar projects
- For this project, WEBB has partnered with subconsultants, SKM Inc. for electrical engineering services, RF Yeager for corrosion engineering , and LandMark Consultants Inc. for geotechnical engineering and construction materials testing services, leveraging their extensive experience and insights

Differentiators

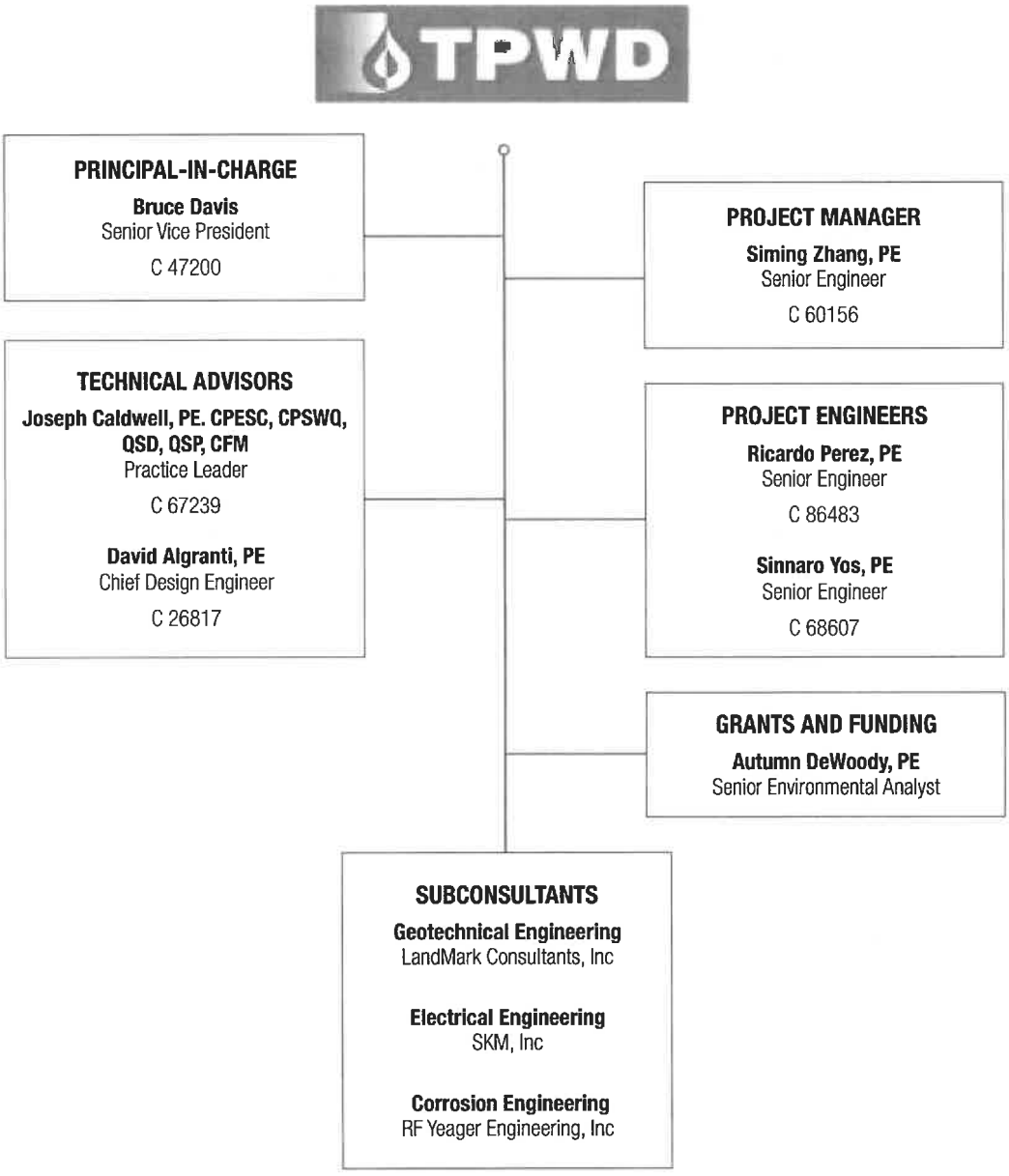
- **Extensive Experience:** With almost 80 years in the industry, WEBB brings a wealth of experience, ensuring a deep understanding of the intricacies involved in similar projects
- **Strategic and Detailed Scope of Work:** Our proposal includes a meticulously planned scope of work, outlining every aspect of the project phases to ensure comprehensive and efficient execution
- **Budget in Compliance:** WEBB is committed to providing quality services within budget constraints, ensuring the District receives optimal value for its investment

We are eager to delve into further discussions about our team, our proposed scope of work, and strategic ideas tailored for this project. Our commitment to your project extends beyond mere completion; we aim to ensure that your water system improvements are executed with the utmost professionalism and efficiency.

Should you have any questions or require further clarification regarding our proposal, please do not hesitate to contact me directly at 951.248.4233, or via email at bruce.davis@webbassociates.com. We appreciate the opportunity to contribute to the Twentynine Palms Water District's objectives and look forward to a successful collaboration.

Sincerely,

Bruce Davis, PE
Principal-in-Charge
951.248.4235
bruce.davis@webbassociates.com
Albert A. Webb Associates
3788 McCray Street, Riverside, CA 92506



Section 2. Project Understanding

Twentynine Palms Water District (District) desires to have a Redundant Treated Water Tank and Booster Pump Station for the District's Fluoride Removal Plant located at the corner of Amboy Road and Utah Trail in the City of Twentynine Palms. The District currently operates a 250,000 gal buried concrete tank (approximately 16-FT deep, 25-FT wide and 85-FT long) with the concrete roof at grade. The existing pump house is a small metal building located on the roof of the existing concrete tank and has two 2,100 gpm pumps equipped with 250 hp motors and manual start and stop switches. The proposed redundant facility is intended to be functionally equivalent to the existing tank and pump station, never operate at the same time as the existing facility, and use the same power feed as the existing pumps. The expectation for the proposed tank is a welded steel tank on grade.

The existing site generally slopes from south to north. The existing facilities are located on a raised area adjacent to the treatment plant, approximately 5-FT above the surrounding ground with concrete erosion control materials to protect the slopes. The site is well maintained with plenty of clear space generally free of weeds and brush to the east of the existing plant within the fenced confines of the property to locate the proposed facilities. For a circular steel tank with 16-FT vertical of effective water operating capacity, the tank would be approximately 52-FT in diameter for 250,000 gallons of storage. Alternative configurations for operating levels and capacities will require larger or smaller diameters. The height of the tank shell will be dictated, in part, by the required sloshing space above the maximum operating level to comply with AWWA standards. While welded steel tanks with epoxy lining provide, in our opinion, the best long-term design option for above grade steel tanks, a less expensive bolted steel tank should be considered if the operating conditions for a redundant/standby system anticipate less wear and tear on the tank itself. This issue will be investigated as part of our preliminary design and documented in the preliminary design report.

To keep the proposed steel tank above grade and not in a potentially flooded or buried position, it is anticipated that the proposed tank floor elevation at the existing grade adjacent to the existing tank might be approximately 10-FT to 12-FT higher than the floor elevation of the existing concrete tank. For the redundant facility to be functionally equal to the existing concrete tank, WEBB will confirm via a hydraulic analysis of the system whether the treated water effluent from the treatment plant can fill the proposed tank at the higher level. The proposed pumps withdrawing water from the proposed tank can easily be specified to match the hydraulic condition required to convey water through the existing pipeline system and on to the reservoir located on Singing Sands Road, whether the tank is at grade or partially buried. WEBB will prepare a preliminary plan for the pump station. We anticipate vertical turbine pumps with pumps can maintain appropriate suction pressure for the pumps. WEBB will determine the Net Positive Suction Pressure Available (NPSPA) for the proposed configuration and select pumps that can operate under those conditions. A detailed surge analysis is not anticipated as no issues have been highlighted for the existing station operating under similar hydraulic conditions. WEBB will confirm these findings in our initial work. If a surge analysis is ultimately required, WEBB will submit a contract amendment request. These hydraulic issues will be fully investigated as part of our preliminary design and documented in the preliminary design report.

Another consideration for the tank design is to determine if chlorine contact time is a potential issue for a circular steel tank as opposed to the long rectangular shape of the existing concrete tank. WEBB will review information provided by District staff to determine if there are any design constraints associated with chlorine contact time for the proposed redundant system. This issue will be investigated as part of our preliminary design and documented in the preliminary design report.

For welded steel tank design, WEBB proposes to complete the preliminary design using our custom calculation spreadsheet for D-100 welded steel tanks. WEBB has two individuals on staff who sit on the AWWA Tank Committee that maintain and revise this standard: Dave Algranti, PE, and Ricardo Perez, PE. These AWWA D-100 calculations required by the standards determine the minimum required shell ring steel thicknesses, the sloshing wave height allowance,

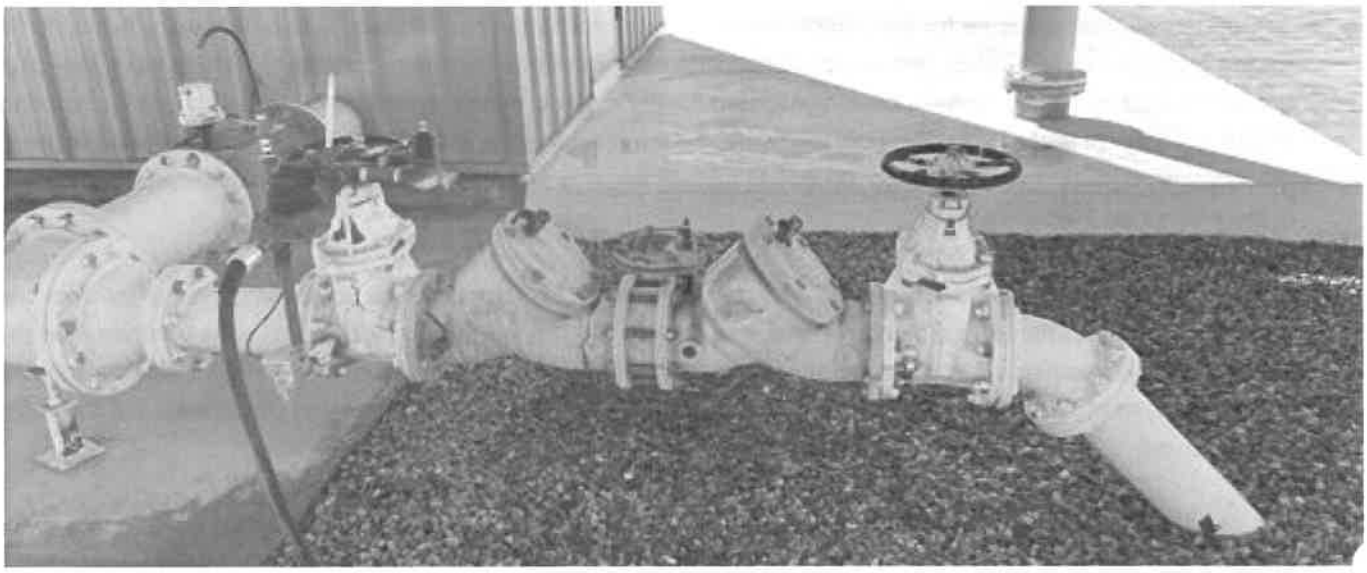
overturning potential and whether the tank is anchored or self-anchored for the location and tank configuration (tank diameter and height). WEBB will also develop a set of drawings documenting the required configuration and location of all tank appurtenances such as shell penetrations, sampling ports, roof access, safety railings, etc. We have included a custom cathodic protection design for the welded steel tank prepared by our corrosion engineering sub-consultant, RF Yeager.

The typical practice within the welded steel tank industry is for the tank fabricator to prepare the detailed structural design and calculations as a construction submittal. In support of this approach, WEBB will also prepare a special requirement or special condition documenting any requirements over and above the D-100 requirement minimums, the required appurtenances as shown on the plans, minimum requirements for the tank design such as minimum shell ring thicknesses and the requirement to submit structural calculations and design details as part the tank construction submittal for review and approval by the District.

If a bolted steel tank is ultimately selected, WEBB will prepare similar details and special requirements based on bolted steel tank standards and industry practices.

If, during the preliminary design work, it is determined that a buried concrete tank is the best approach for this application, WEBB will need to request a contract amendment for the detailed structural design of any proposed concrete tank or structure.

For the grant funding task, Autumn DeWoody and Lee Reader, our Grant Planning experts, will assist the District with evaluating current grant funding opportunities versus the project's purpose and need. One current grant that might fit is the U.S. Bureau of Reclamation's WaterSMART Planning and Project Design Grants. If authorized, WEBB will research opportunities that match up well with this project. Typically, grants or low interest loans are available from Department of Water Resources, US Bureau of Reclamation, and the State Water Quality Control Board. We have included budget for virtual meetings, our research and analysis of the purpose of the proposed project, and current grant opportunities that match up well with the project objectives. If it is determined that the District desires to proceed with a grant application, WEBB will submit a contract amendment request for the specific tasks of preparing the grant application and accompanying information required. Any unused time for grant research can be applied to this potential grant application effort.



Piping from the existing TPWD Booster Station

Section 3. Scope of Work

Task 1 - Preliminary Design Phase

Site Visit – Our engineering team, including our electrical engineer, will visit the site to become familiar with the detailed parameters at the site, identify any constraints or challenges for the project, confirm the existing facilities and the associated configuration and approach, and confirm the existing electrical and control system details.

Site Survey – Our proposed site survey will cover approximately 1 acre of the existing site to encompass the proposed footprint of the project. The proposed location of the tank and pump station will be determined prior to the detailed survey work. The detailed scope for the survey is as follows:

- Field locate and survey existing benchmarks, and establish survey datum for the project. Vertical datum shall be based on the North America Vertical Datum of 1988 (NAVD88). Perform field survey to locate and recover existing survey monuments and establish vertical control for the project. Horizontal control datum and basis of bearings shall be based on the California State Plane Coordinate System, NAD83, Zone 5.
- Provide field topographic survey of proposed tank and pump station site. Field survey data will include existing ground elevations and surface features of sufficient detail for design purposes. Collect field marking of existing buried utilities made by the District.
- Process and draft topography data and prepare electronic CAD files for the existing ground surface (FT) file, Civil 3D existing surface (TO) file and existing plan (XP) file for design teams use.
- Utilizing the available GIS data from San Bernardino County, download and import GIS data for existing parcels for the project limits shown in Figure 1.
- Review CAD file for any differences between GIS data and assessor's maps and reconcile the differences. Any differences that cannot be resolved will be reviewed with the design team to determine an appropriate resolution.
- Prepare an electronic CAD file from the GIS data showing the existing property lines (PB-GIS file) and provide to the design team for use and reference in project design.
- Plot existing facilities based on plans provided by the District.

Deliverables will be an AutoCAD file suitable for design.

Geotechnical Investigation – Our proposed geotechnical investigation will include two test borings at the proposed tank site to a depth of 30-FT with continuous logging of the soils encountered. Samples will be obtained, and testing will be performed to include Moisture content & Unit Weight, Sieve Analysis, Corrosion Potential, and Gradation. Other tests may be performed based on the subsurface conditions encountered. The Engineering Analysis will include feasibility of the proposed construction, identification and mitigation of geologic and seismic hazards, recommendations for foundation design, recommendations for lateral pressures, site preparation, fill, slab-on-grade, and corrosivity. Seismic parameters for the design of the tank will be determined.

Deliverable will be a comprehensive geotechnical investigation report.

Tank Sizing and Hydraulics – WEBB will review the tank sizing and type of tank (welded steel, bolted steel, concrete), pipe layout, tank connections, pump station configuration, hydraulic analysis of the proposed system, and pump selection for a comprehensive review of the proposed facilities. We will review the operation of the system and the cathodic protection recommendations for the tank itself.

Site Plan – WEBB will prepare a site plan showing the proposed project, any known utilities or facilities, anticipated grading, tank floor elevations, paving, etc. A proposed electrical plan and preliminary P&ID will be prepared. A pipeline plan will be prepared showing the proposed pipelines, pump station, and proposed connection points. A potholing plan will be prepared for implementation by the District.

Research Grant and Funding Opportunities – WEBB will confirm the project need, proposed facilities and approach, and then match up to current grant and funding opportunities available. WEBB will summarize our findings including the requirements for each opportunity and prepare a recommendation on how and when to apply for which opportunities that best suit the project.

Opinion of Probable Construction Cost – WEBB will prepare preliminary cost estimate for the proposed project based on the available information at the preliminary design stage.

Preliminary Design Report - WEBB will document our findings, conclusions and recommendations in a draft PDR and submit the draft for District review. WEBB will hold a workshop to present our findings and received input and comments from District Staff. WEBB will then address District comments and submit a final PDR. It is anticipated that the project description from the PDR will be used for the CEQA documentation prepared by others. WEBB can make nominal edits to this project description to customize it for the CEQA consultant.

Task 2 - Final Design and Bid Phase

WEBB and its sub-consultant team will prepare 60%, 90%, and 100% plans, specifications and estimates for the project based on the approved PDR. A list of plan anticipated plan sheets can be provided upon request. We anticipate civil, mechanical, electrical, and corrosion plan sheets for the project. Our team is fully licensed within the State of California with many years of experience with similar projects. WEBB will edit District provided front end documents for the specifics of this project including such items as Notice Inviting Bids, Project Description, Bid Schedule, measurement and payment, special requirements, or conditions. WEBB will provide all technical specification sections for all disciplines. WEBB will develop a construction schedule and sequencing for the various disciplines of work anticipated. This schedule will be updated as the design progresses and used as the basis of the anticipated construction duration and contract completion. Key issues related to the schedule will be when shutdowns can occur and how long can the facilities be out of service to make connections both on the water pipelines and the electrical systems.

WEBB will hold design workshops at the initiation of the final design and the 60% and 90% submittals.

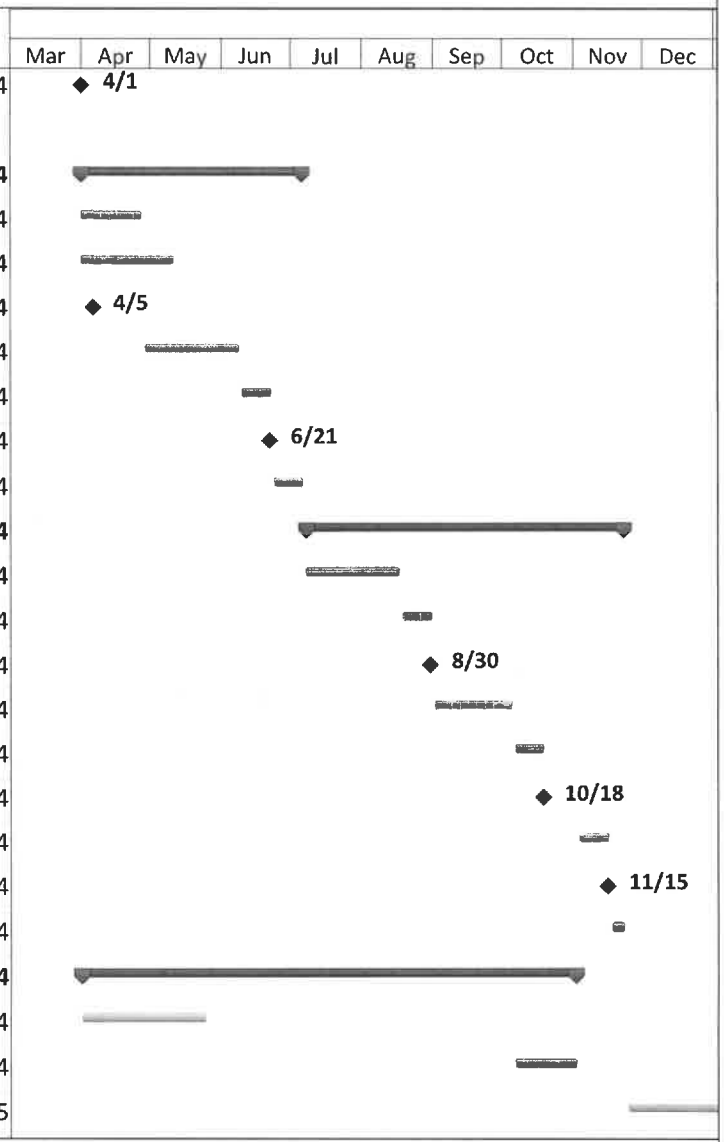
WEBB will attend the pre-bid conference and can provide an agenda based on the bid documents. WEBB will respond to questions from the bidders. We anticipate up to two addenda summarizing the responses. WEBB will attend the bid opening and record the preliminary bid results for the record. WEBB can review the bids and provide a recommendation letter as an optional task.

Piping from the existing TPWD Booster Station

Piping from the existing TPWD Booster Station

Twentynine Palms Water District
Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant

ID	Task Name	Duration	Start	Finish
1	Project Kick-Off Meeting	0 wks	Mon 4/1/24	Mon 4/1/24
2				
3	**Preliminary Design Phase**	**14 wks**	**Mon 4/1/24**	**Fri 7/5/24**
4	Design Survey and Mapping	4 wks	Mon 4/1/24	Fri 4/26/24
5	Utiilty Research	6 wks	Mon 4/1/24	Fri 5/10/24
6	Field Walk	0 wks	Fri 4/5/24	Fri 4/5/24
7	Preliminary Design	6 wks	Mon 4/29/24	Fri 6/7/24
8	TPWD Review	2 wks	Mon 6/10/24	Fri 6/21/24
9	Meeting with TPWD for PDR	0 wks	Fri 6/21/24	Fri 6/21/24
10	Finalize Preliminary Design	2 wks	Mon 6/24/24	Fri 7/5/24
11	**Bid Documents Plans and Specs**	**20 wks**	**Mon 7/8/24**	**Fri 11/22/24**
12	60% Plans Submittal	6 wks	Mon 7/8/24	Fri 8/16/24
13	TPWD Review 60% Plans	2 wks	Mon 8/19/24	Fri 8/30/24
14	Meeting with TPWD for 60% Design	0 wks	Fri 8/30/24	Fri 8/30/24
15	90% Plans and Specifications Submittal	5 wks	Mon 9/2/24	Fri 10/4/24
16	TPWD Review 90% Plans and Specs	2 wks	Mon 10/7/24	Fri 10/18/24
17	Meeting with TPWD for 90% Design	0 wks	Fri 10/18/24	Fri 10/18/24
18	100% Plan and Specification Submittal	2 wks	Mon 11/4/24	Fri 11/15/24
19	TPWD Final Review & Approval	0 wks	Fri 11/15/24	Fri 11/15/24
20	Final Plans for TPWD signatures	1 wk	Mon 11/18/24	Fri 11/22/24
21	**Sub-Consultants & Permits**	**31 wks**	**Mon 4/1/24**	**Fri 11/1/24**
22	Geotechnical Investigation and Report	8 wks	Mon 4/1/24	Fri 5/24/24
23	DDW Permit / Review	4 wks	Mon 10/7/24	Fri 11/1/24
24	Bidding, and Award	8 wks	Mon 11/25/24	Fri 1/17/25



ALBERT A. WEBB ASSOCIATES

Preliminary and Final Design Engineering Services for Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant
Twentynine Palms Water District

Item	Description	Bruce Davis Principal II	Siming Zhang Principal II	Ricardo Perez Senior III	Sinnaro Yos Senior III	Tyler Vigneault Assistant V	Joseph Caldwell Principal II	David Algranti Principal II	Lexi Hinkley Project Coordinator	Jose Diaz Party Chief/2-Person Survey Crew	Michael Johnson Principal II	Andres Lopez Senior I	Riley Skvarca Assistant III	Autumn DeWoody Associate II	Lee Reeder Associate I	Total Hours	Subtotal - Labor	Sub-consultant budget	Expenses	Total/task[1]
	Billout Rate	$ 312	$ 312	$ 280	$ 280	$ 196	$ 312	$ 312	$ 141	$ 326	$ 312	$ 258	$ 163	$ 229	$ 217					
Task 1 - Preliminary Design			19	40	32	56		11	15	8	3	2	4	10	40	240	$ 58,293	$ 19,299	$ 350	$ 77,943
1.1	Topographic Survey									8	3	2	4	2		19	$ 5,170	$ -	$ 200	$ 5,370
1.2	Geotechnical Investigation		1	2				1	1							5	$ 1,325	$ 8,663	$ -	$ 9,988
1.3	Review Tank Size/Configuration/Hydraulics		2	16	4	24		4								50	$ 12,176	$ -	$ -	$ 12,176
1.4	Prepare OPCC			2	8											10	$ 2,800	$ -	$ -	$ 2,800
1.5	Prepare Draft PDR		4	12	8	20		4	8							56	$ 13,144	$ 4,200	$ -	$ 17,344
1.6	Prepare Final PDR		4	8	4	12		2	6							36	$ 8,430	$ 3,812	$ -	$ 12,242
1.7	Grant Funding Opportunities													8	40	48	$ 10,512	$ -	$ -	$ 10,512
1.8	Site Visit		8		8											16	$ 4,736	$ 2,625	$ 150	$ 7,511
Task 2 - Preparation of Contract Documents			26	68	42	150		6	16							308	$ 72,440	$ 42,756	$ 200	$ 115,396
2.1	60% Submittal, PS&E		8	24	16	60		4	4							116	$ 27,268	$ 20,706	$ -	$ 47,974
2.2	90% Submittal, PS&E		6	24	16	60		2	4							112	$ 26,020	$ 14,700	$ -	$ 40,720
2.3	100% Submittal, PS&E		4	16	8	30			4							62	$ 14,412	$ 7,350	$ -	$ 21,762
2.4	Bidding Services		8	4	2				4							18	$ 4,740	$ -	$ 200	$ 4,940
Task 3 - Project Management		11	27	20			8		18							84	$ 22,490	$ 840	$ -	$ 23,330
3.1	Kick-off Meeting	1	2	2					2							7	$ 1,778	$ -	$ -	$ 1,778
3.2	Project Schedule		1	2												3	$ 872	$ -	$ -	$ 872
3.3	Monthly Coordination Meetings	4	8	8					8							28	$ 7,112	$ -	$ -	$ 7,112
3.4	QA/QC Program	2	4				8									14	$ 4,368	$ -	$ -	$ 4,368
3.5	PDR Design Workshop	1	2	4					2							9	$ 2,338	$ 420	$ -	$ 2,758
3.6	60% Design Workshop	1	2	4					2							9	$ 2,338	$ 420	$ -	$ 2,758
3.7	Project Management	2	8						4							14	$ 3,684	$ -		$ 3,684
Total		11	72	128	74	206	8	17	49	8	3	2	4	10	40	632	$153,223	$ 62,895	$ 550	$ 216,669

1. Rounded to the nearest $1.

Section 5. Key Personnel

Siming Zhang, PE

Senior Engineer

REGISTRATIONS
Registered Civil Engineer C 60156 (CA)

EDUCATION
BS, Civil Engineering
Tsinghua University, China
MS, Civil Engineering
University of Southern California

AFFILIATIONS
American Society of Civil Engineers (ASCE)
American Water Works Association (AWWA)

Siming Zhang, PE, is a Senior Engineer with WEBB's Water Resources Department. Siming assists clients in managing and designing a wide array of public works projects including water storage reservoirs, water transmission pipelines and booster stations, major trunk sewer mains, sewer collection pipelines and sewer lift stations, and water booster stations.

As a Project Manager who leads a team of engineers and designers, Siming has been a key advisor on many important matters that help determine the success of land developments including master drainage plans, hydrology/hydraulic studies, storm drain designs, Conditional Letters of Map Revision (CLOMR), and Letters of Map Revision (LOMR). Clients depend on Siming's ability to fulfill a broad range of project goals including assistance with engineering design, bidding, construction administration, coordination with local agencies, sewer and water master facility plans, feasibility studies, construction drawings and specifications, construction and project cost estimates, and coordination with government agencies to secure approvals and permits.

Siming's responsibilities entail engineering design, assistance during bidding, construction administration, coordination with local agencies, sewer and water master facility plans, feasibility studies, construction drawings and specifications, construction and project cost estimates, and coordination with various government agencies to obtain the applicable approvals and permits. His contract administration responsibilities has included review of bid proposals, contractor submittal drawings, inspection reports, and process requests for information, requests for change order, and periodic site visits to monitor construction.

Armstrong Booster Station, Jurupa Community Services District (District) Siming is currently the project manager for the Armstrong Booster Station upgrade and replacement project, working with Sinnaro Yos, PE, as the project engineer. The project is upgrading the pumping capacity and implementing various site improvements necessary to meet the ultimate pumping capacity for JCSD's 1200 pressure zone.

Verdemont Pump Station and Water Infrastructure Improvements Project, San Bernardino Municipal Water District (District) - Siming served as the project manager for this project. This project included the design of a 3,500 GPM booster pump station, 1.0 MG reservoir tank, 2,900-FT of 16-inch and 20-inch diameter transmission pipelines, 1,340-FT of storm drain pipelines, and miscellaneous on-site and off-site improvements to the District's 2100 and 2300 pressure zone. WEBB also provided engineer support services during construction which consisted of reviewing and ensuring compliance with project specifications, evaluating over 150 Shop Drawings and Construction Documents submitted by contractors, and maintaining the highest standards of quality. Additionally, WEBB played a key role in

reviewing and addressing Contractor Requests for Information (RFI/RFCs) and drafted changes to project documentation, facilitating efficient communication with the Department.

Belle Terre Tank Waterline, Regent Properties - As Design Lead for the Belle Terre Tank Waterline project, Siming oversees the tank-related aspects for Regent Properties under the WEBB Team. WEBB's involvement encompasses a comprehensive array of services including planning, environmental assessment, engineering, mapping, and entitlement services, all tailored to the specific needs of the Belle Terre Specific Plan. One significant aspect of the project involves revising the specific plan to align with additional park acreage requirements, essential for the development's sustainability and community integration. WEBB ensures adherence to these requirements while facilitating the development of 372 residential lots, navigating through various site constraints. WEBB prepared an Addendum to the EIR with supporting biological resource assessment, preliminary hydrology analysis, preliminary water quality management plan and traffic impact analysis to analyze the proposed project and provide engineering, mapping, and entitlement services to process the tract map. Constraints to the site included conservation habitat land to be conveyed to the Riverside Conservation Authority, the need for wildlife crossing, and power pole removals within conservation areas. WEBB provided both project management and support services to ensure all issues were resolved in a timely manner keeping the project on track.

Lindsay Reservoir PDR, Jurupa Community Services District (District) - Siming served as Project Manager for the WEBB Team. The District's water demand has increased over the last 20 years with new developments within the City of Eastvale and infill developments within the City of Jurupa Valley. The District has been proactively increasing its water supply by obtaining capacity rights from Chino 1 and Chino 2 Desalters, construction of Ion Exchange Facilities, drilling and equipping of new water wells, and entering into an inter-agency connection with Rubidoux Community Services District. Additionally the District is evaluating the Northern Feeder Pipeline Projec which could provide water from an inter-agency connection with Cucamonga Valley Water District. The required District pipeline network has been constructed or is being planned to deliver the various water supply sources. Based upon the current ongoing Water Master Plan, the District's 870' PZ has a current storage deficit of about 18 MG, which will increase to about 28 MG at ultimate buildout. Planning and design for increased storage capacity requirements within the 870-FT pressure zone was initiated in the 1990's which culminated in the planning of the preliminary design of the Lindsay Reservoir and Waterline Project. During the initial planning and design efforts, it was conceived that approximately 40 MG of potable water can be stored at this site in two to three reservoirs and several alternative site configurations were evaluated resulting in a three reservoir configuration. Off-site waterline and storm drain alignments were also reviewed, evaluated, and designed.

Area B Non-Potable Waterline, Jurupa Community Services District (District) - Siming served as Project Manager for this project that expands the District's use of non-potable water for irrigation purposes to offset the District's need for potable water. The District considered several possible non-potable water sources. This project consisted of the construction of approximately 12,000 -LF of 10-inch diameter and 16-inch diameter transmission pipeline in Bellegrave Avenue between Hamner Avenue and Etiwanda Avenue. This pipe is part of the backbone transmission pipeline system in addition to other components.

Bruce Davis, PE

Senior Vice President

REGISTRATIONS:
Registered Civil Engineer
C 47200 (CA)

YEARS OF EXPERIENCE:
34 Years

EDUCATION:
BS Civil Engineering, California State Polytechnic University, Pomona

AFFILIATIONS:
American Public Works Association (APWA)
American Water Works Association (AWWA)
California Water Political Action Committee (CalWater PAC)
Association of California Water Agencies (ACWA)
Coachella Valley Economic Partnership (CVEP)
League of California Cities

Bruce Davis is a Senior Vice President of Albert A. Webb Associates (WEBB). Bruce has been a full-time employee of WEBB since 1986. Bruce currently serves as Director of Water Resources. As Director, he oversees all water and wastewater projects performed by the firm. Since 2018, Bruce has taken the lead representing WEBB in matters involving engineering standard of care and risk management. Bruce is a registered civil engineer in the State of California.

Bruce has served as Principle-in-charge for well over one hundred regional infrastructure projects. His experience includes planning, design and support during construction of water, wastewater, drainage and transportation projects on behalf of clients including Eastern Municipal Water District, Coachella Valley Water District, Jurupa Community Services District, and cities of Corona, Murrieta, Rancho Mirage, Ontario, Grand Terrace, Rialto and Cathedral City. Project types include pipelines from 8-inch diameter up to 60-inch diameter, pumping ranging in size from one hundred gallons per minute to over 5,000 gallons per minute and storage facilities ranging in capacity from five hundred thousand gallons to over twenty million gallons, roadways, signals, storm drains and basins. Recent water industry projects include O'Ferrelll Street Booster Pump Station, Redlands/Hemlock Booster Pump Station, Longview and Watson Roads pipelines, Perris II Desalter pipeline and Markham 7.0-million-gallon storage tank.

Along with experience with regional infrastructure projects, Bruce has extensive knowledge and experience with survey, planning, entitlement, development (residential and commercial) and environmental services. His extensive experience translates to an understanding of all steps required to successfully complete a project efficiently and on schedule. Bruce has served as an expert witness in matters involving land use, entitlements and drainage.

Bruce is a member of and/or involved with American Public Works Association, American Water Works Association, Association of California Water Agencies and League of California Cities. He served several years as a Board member of CalWater PAC which is a political action committee advocating for issues important to California's water supply. Bruce serves as an excellent resource for his clients on current issues and trends in our region.

REGISTRATIONS
Registered Civil Engineer C 86483 (CA)
Registered Civil Engineer 028123 (NV)

EDUCATION
BS, Civil Engineering
Cal Polytechnic University, Pomona

AFFILIATIONS
American Society of Civil Engineers (ASCE)
American Water Works Association (AWWA)

Ricardo Perez, PE

Senior Engineer

As a Senior Engineer in WEBB's Water Resources Department, Ricardo has successfully assisted in project designs ranging from the preliminary stages of a project through the construction phase. Ricardo has worked on public works projects involving wastewater and water systems, water reclamation, and water and wastewater treatment. His responsibilities have included water and sewer pipeline alignment design, hydraulic analysis, pipe thickness design, sewer lift station design, deep well design, utility coordination, local agency permitting, construction document review, and coordinating with outside consultants. Ricardo currently sits on the AWWA Steel Tank Committee and participates in the standards review and updates.

Development of Well No. 27 and Well No. 28 Equipping and Site Development, Jurupa Community Services District (District) - Ricardo served as the assistant engineer for this project. He assisted in the overall configuration of the well sites and on-site piping design for the water and wastewater systems. Developed final grading plans for the site and developed details and plan and profile sheets for all piping systems and walls for the project. Coordinated with final connection to the new 870-foot pressure zone water transmission pipelines and with flood control agency for the installation of a new storm drain pipeline to nearby flood control channel.

Verdemont Phase II Expansion Project, San Bernardino Municipal Water Distric Ricardo was the project engineer and assistant project manager for the design of the city's expansion to their existing Verdemont tank site and new tank site facilities. The project consisted of design of a 1.0 MG Tank and site improvements including storm drain improvements, grading of the site, and other improvements. The project also included the design of the 3,500 GPM booster station that serves as the supply to the new 1.0 MG tank, the booster station improvements included design for the on-site electrical, instrumentation, and mechanical designs, a new building, site improvements and grading, Additionally, the project included the design of new water transmission mains, approximately 1,380 LF of 20" Ductile Iron Pipeline transmission main and 1,542 LF of 16" diameter ductile iron pipeline transmission main. Other improvements included the design of a maintenance road and off-site improvements including erosion control, storm drain and catch basins, a new paved road from the booster station to the new 1.0 MG tank, and detention basin. Mr. Perez continued to provide support during construction for the project including reviewing construction documents, answering contractor questions, review of submittals and coordinating with the city, the contractor, and other disciplines.

Speedway Commerce Center II (SCCII) Lift Station and Siphon Design, Fontana CA. Ricardo was the project engineer for the design of the new lift station and siphon for the Speedway Commerce Center II development at the NASCAAR racetrack site The project consisted of performing preliminary design report (PDR) to determine if a lift station would be required to process the onsite flows from the new SCCII

development. The PDR included hydraulic analysis, field investigation, preliminary design and layout, coordination with other disciplines, and coordination with the San Bernardino County Department of Publics Works Special Districts. The PDR also evaluated the potential for a siphon to be used instead of a lift station. The final design moved forward with the siphon and included final design plans for construction, cost estimates, hydraulics, design report, and details.

870-FT Pressure Zone Non-Potable Water Transmission Pipeline, Jurupa Community Services District (District) Ricardo served as the Project Engineer for a series of pipeline improvements to increase efficiency for District customers. The project, in the City of Jurupa Valley in northwestern Riverside County, includes the construction of two groundwater wells, ancillary equipment and approximately 12,800-LF of potable water transmission pipelines which will connect to the District's 870-FT pressure zone and 2,100-LF storm drain pipeline. WEBB's services include determining horizontal control for the proposed alignment, preparing a survey control map, locating and detailing existing storm drain structures, determining the location of field potholes, and preparing design plans and profile drawings.

Dillon Road Water Main Replacement, Coachella Valley Water District (District) - Ricardo served as Design Engineer for the WEBB Team responsible for designing a domestic water transmission main system providing a reliable water supply to the District's service area located northeast of Sun City Palm Desert in Riverside County near the community of Indio Hills. Currently, this County service area, Improvement District 18, is an isolated pressure zone that is located near the end of the Sky Valley Domestic Water System, which has limited supply capacity between BS 04701 and R 4711. The approximately 4.2 mile alignment travels from BS 04701 located near the intersection of Dillon Road and Western Avenue to R 4711 which is 800-FT north of the intersection of 30th Avenue and Sunny Rock Road. Construction of the pipeline occurred on the north shoulder of Dillon Road to match the Phase 1 project.

Florine Sewer Lift Station, Jurupa Community Services District (District) - Ricardo served as an Assistant V for the Florine Sewer Lift Station Design. Project specifications consisted of design and construction of a 1050 gpm sewer lift station, 2,250-LF of 10-inch diameter force main, and 3,100-LF of 10-inch and 15-inch diameter gravity main within an existing 20-FT wide District utility easement.

Bloomington Area Watermain Replacement, West Valley Water District (District) - Ricardo served as the Project Engineer for the Bloomington Area Alley Water Main Relocations and Zone 2 24-inch Transmission Main Project, Phase 3. This project includes relocation of 20,880-LF of 8-inch, 12-inch, and 24-inch diameter CML/CMC WSP and 418 services from backyard alleyways to the street in front of the property. WEBB is responsible for designing and implementing the relocation of the existing water facilities from the alleyways to the street right-of-way to improve meter reading and valve access and to perform regular and emergency maintenance more readily.

Sinnaro Yos, PE

Senior Engineer

Sinnaro Yos, PE, is a Senior Engineer with WEBB's Water Resources Department. Sinnaro offers clients extensive experience managing the design and construction of a wide range of public works projects that enhance water quality and supply including water and wastewater systems, water reclamation, and water and wastewater treatment.

Sinnaro's responsibilities include master plan reports for water and wastewater systems, water and sewer pipeline sizing and hydraulic analysis, alignment analysis, and pipe thickness design. He also focuses on water booster stations, sewer lift stations and deep well drilling and equipping design, utilities coordination and permitting through agencies, preparation of bid documents, and engineering cost estimates.

Clients also depend on Sinnaro's wide-ranging construction management experience during construction of projects. He provides construction schedule analysis and control, schedules survey activities and specialized inspection efforts, and resolves field conflicts and issues. He also assists with processing submittals, RFIs, progress payments and change requests, conducts progress meetings, disseminates meeting minutes, communicates with the project inspector, contractor and owner, and provides for closeout of contracts. This includes conducting the final walk-through and generating a punch list, performing a final review of retention payments, and processing as-builts and O&M manuals. In addition, Sinnaro has provided technical memorandums as well as water and sewer master plan reports for projects which have been built and are operating successfully.

REGISTRATIONS

Registered Civil Engineer C 68607 (CA)

EDUCATION

BS, Civil Engineering
University at Buffalo,
State University of New York

Armstrong Booster Station, Edgemont Community Services District (District) Sinnaro is currently the project engineer for the Armstrong Booster Station upgrade and replacement project, working with Siming Zhang, PE, as the project manager. The project is upgrading the pumping capacity and implementing various site improvements necessary to meet the ultimate pumping capacity for Jurupa Community Services District's 1200 pressure zone.

Jewel Street Booster Pump Station, Rubidoux Community Services District (RCSD) - Sinnaro served as Construction Manager and was the main point of contact for this project. RCSD secured Proposition 50 grant funding for construction of several improvements, including the JCSD-RCSD Jewel Street Booster Pump Station, to provide for an emergency interconnection facility between RCSD and Jurupa Community Services District (JCSD). The JCSD-RCSD Jewel Street Booster Pump Station was designed WEBB as well as a portion of the pipeline in Mission Boulevard.

Sinnaro Yos, PE

Senior Engineer

Regional Life Station PDR, Jurupa Community Services District (JCSD) - Sinnaro served as the Project Engineer for the District's Regional Sewer Lift Station Projects. The District issued Certificate of Participation Bonds to finance the construction of certain capital improvements known as "the Project." The project included three major components to improve the District's sewer system: 1) Trunk Sewer System Improvements, 2) Regional Wastewater Pump Station Expansion and New Force Main to the City of Riverside's Water Quality Control Plant (WQCP), and 3) Florine Lift Station Replacement. More specifically, the second component is the combination of improvements to convey wastewater from the District's regional wastewater pump station to the City's WQCP, to address current deficiencies and meet ultimate conveyance requirements. The proposed preliminary design for these regional sewer facilities advances the project such that final design can be effectively initiated within the time frame specified by the capital improvement program.

Annual Sewer Improvement Project, Edgemont Community Services District (District) - Sinnaro served as Project Engineer for a study designed to improve water quality in the City of Moreno Valley's Edgemont neighborhood. He performed water quality analysis and coordinated water quality sampling for the area's water system. He also developed the water quality section of the Edgemont Water Master Plan Update. The project included the preparation of master wastewater plans for the District, as well as creation of a hydraulic computer model, development of projected wastewater generation of various regions of the District, and determination sewer main sizing and alignment.

Well Drilling, Design, and Equipping of Wells 27 & 28, Jurupa Community Services District (JCSD) - Sinnaro served as a project engineer for this project. The WEBB Team provided the engineering and hydrogeology services to provide JCSD with two new groundwater wells to serve the District's water system and aquifer storage and recovery (ASR) capabilities. WEBB performed the site selection evaluation for these well sites based on both hydrogeologic and engineering parameters. The WEBB team prepared the drilling specifications and Geoscience provided inspection services during the well drilling of these wells.

Wells 22, 23, and 25, Jurupa Community Services District (JCSD) - Sinnaro served as a Project Engineer for the JCSD Well Nos. 22, 23 and 25 Project. The WEBB Team provided the engineering and hydrogeology services to provide JCSD with three new groundwater wells to serve the District's water system. WEBB performed the site selection evaluation for these well sites based on both hydrogeologic and engineering parameters. For Well No. 25, we provided legal and plats for the District to purchase land and obtain easements. The WEBB Team prepared the drilling specifications and Geoscience provided inspection services during the well drilling of these wells. WEBB provided input on Geoscience's recommendations for casing and screen design, filter pack design, and pump setting. Geoscience's recommendations were incorporated into our well equipping design plans and specifications.

WEBB and our subconsultants provided JCSD with complete civil, mechanical, and electrical design plans and specifications for the public bid process. Well No. 22 (3,000 gpm), Well No. 23 (3,000 gpm) and Well No. 25 (4,000 gpm) are being equipped with 500 hp, 500 hp, and 600 hp electric motors, respectively. For Wells 22 and 23, the long lead time items such as the deep well pump and motor and the motor control center was pre-purchased. We prepared specifications for the District to pre-purchase the equipment. These wells will also be equipped with standby diesel generators. WEBB is currently providing construction management and inspection services, maintaining constant communication with the District to resolve issues that developed during the equipping phase of the project.

David Algranti, PE

Chief Design Engineer

REGISTRATIONS

Registered Civil Engineer C 26817 (CA)

EDUCATION

BS, Civil Engineering, California Polytechnic University, Pomona

AFFILIATIONS

American Water Works Association (AWWA)

David (Dave) Algranti, PE, is a Chief Design Engineer with WEBB's Water Resources Department. Dave has years of experience in the planning, design, and construction of water resources projects. With such deep knowledge of water-related systems, he assists as technical advisor for all WEBB teams handling such projects for clients. Dave helped develop WEBB's quality management program, enabling him to coordinate and directly perform project quality control and assurance - making sure project technical issues are recognized early and resolved efficiently by an expert in the firm.

He has provided design and supervisory services for a wide range of water systems projects that provide reliable infrastructure to improve communities. These include water storage reservoirs, major water pumping plants, surge and water hammer control equipment, water treatment plants, water wells, and water transmission mains. Clients also look to Dave for his experience with pressure station and metering facilities, utility relocation projects for state freeway projects, Clean Water Grant sewer construction projects, Department of Water Resources and U.S. Department of Agriculture Rural Development-funded water and sewer system upgrade projects, and sewage lift stations and force mains. In addition, he is well-versed in all aspects of construction management - ensuring projects proceed smoothly, remain on-schedule, and stay within budget.

Joseph Caldwell, PE, CPESC, CPSWQ, QSD, QSP, CFM

Water Resources Practice Leader

REGISTRATIONS

Registered Civil Engineer C 67239 (CA)
Registered Civil Engineer C 030017 (NV)
Registered Civil Engineer C 76114 (AZ)
Certified Professional in Erosion and Sediment Control (CPESC) 5311
Certified Professional in Stormwater Quality (CPSWQ) 544

EDUCATION

MS, Civil Engineering
Brigham Young University
BS, Civil Engineering
Brigham Young University

CERTIFICATIONS

Qualified SWPPP Developer (QSD) 00076
Qualified SWPPP Practitioner (QSP) 00076
Association of State Floodplain Manager, Inc. (ASFPM)
Certified Floodplain Manager (CFM)

AFFILIATIONS

American Society of Civil Engineers (ASCE)
American Public Works Association (APWA)
California Storm Water Quality Association (CASQA)
Floodplain Management Association (FMA)

Joseph Caldwell, PE, is the Practice Leader of WEBB's Water Resources Department. Joseph focuses on the development of master drainage plans, the design of backbone drainage infrastructure, and the design of water quality systems for flood control projects throughout the region. A Certified Professional in Erosion and Sediment Control and Storm Water Quality, Joseph is a specialist in water quality and environmental compliance and an expert in hydrology and hydraulics.

Joseph's experience includes the design of regional flood control basins, a flood control levee, master drainage plans, and the design and construction of several miles of backbone drainage infrastructure. He has also hydrologically and hydraulically modeled the San Jacinto River from Railroad Canyon to the existing Army Corps levee in the City of San Jacinto. Joseph's extensive knowledge of local agencies design standards and procedures, and effective working relationships with agency staff, enable him to expedite projects through completion.

Autumn DeWoody

Senior Environmental Analyst

EDUCATION

MS, Environmental Sciences
University of California, Riverside

BS, Environmental Sciences
University of California, Riverside

CERTIFICATIONS

Certified Level 1 Water Audit Validator

AFFILIATIONS

Association of Environmental Professionals (AEP)
Groundwater Resources Association of California (GRA), Southern California Chapter

Autumn DeWoody is a Senior Environmental Analyst with WEBB's Environmental Services Department. Autumn offers clients a bridge between our technical municipal and stormwater engineering services and environmental documentation. She regularly partners with WEBB's project managers to prepare various planning documents on behalf of our water, wastewater, and flood control district clients. In addition, Autumn offers private and public clients jurisdictional delineations and regulatory permitting services as well as environmental monitoring at construction sites to ensure compliance with Mitigation, Monitoring, and Reporting Plans (MMRPs). She has been repeatedly commended by clients on the frequency and helpfulness of timely updates during permit processing.

Autumn is a certified Level 1 Water Audit Validator and has also prepared Water Supply Assessments and Urban Water Management Plans for a variety of public and private clients. As a result, she appreciates the importance of timely client communication in order to collect pertinent data that is sufficiently detailed and accurate to provide a thorough reflection of the project. This data collection, communication, and collaboration early in the project has proven to keep projects on schedule and budget. She is familiar with the intricacies of complex water supply portfolios and the technical components of planning for future water demands.

Autumn brings a decade of water-related experiences in the Inland Empire including local university research in stormwater management, to non-profit water quality advocacy and on the-ground improvement projects, to commercial wet-chemistry laboratory work. Using her strong analytical skills at WEBB, Autumn reviews the hydraulic and/or hydrologic technical studies and ensures clients are provided the most current data on permitting regulation, surface and ground water quality, and local hydrology.

Section 6. Quality Control Process

Our quality assurance begins with developing a close and continuous line of communication between the design team and the District. Our experience indicates good communication is a critical element to project success. Under our project protocol, we keep an organized directory of all project-related communication, meeting minutes and actior. items, documents, images, data, and plan sets, which allows us to respond quickly to requests. We will seek the input of operations and engineering staff throughout the project development to ensure the project meets the needs of the District.

The proposed project schedule and work plan, developed by the project manager, will be evaluated by our internal peer review team. We recognize a comprehensive, realistic project schedule is critical to the decision-making process for the District. This schedule will include all interim milestones, reviews, third party reviews, and deliverables for the project.

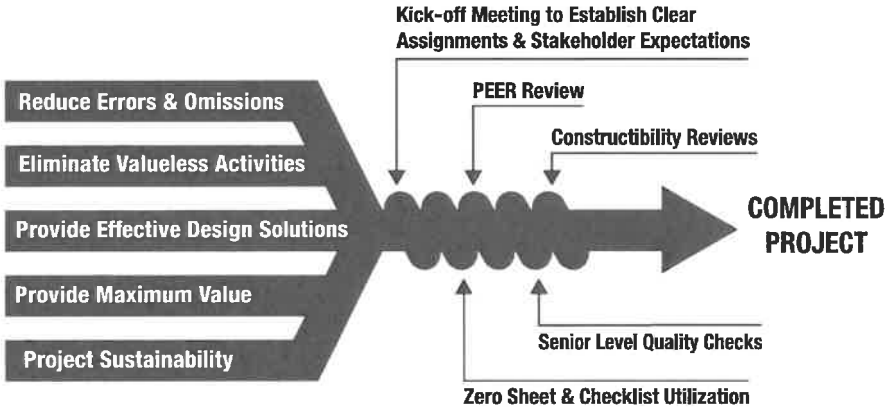
As part of the preliminary design and evaluation of project alternatives, the key project team members will meet and discuss the challenges of each of the proposed alternatives. By bringing these disciplines together early in the project, we can recommend the best project alternative and develop a list of critical design issues that need to be addressed as detailed design is implemented.

A key aspect of our Quality Control Program is the location of existing utilities. These must be confirmed in order to select the most cost-effective alignment. Our in-house utility coordination will acquire the alignments of the existing utilities from the utility companies and combine them for the initial conflict control maps. Our engineers will then walk each of the proposed alternatives and compare the mapped utilities to the site conditions to confirm the correlation between the mapping and the actual locations of bus stops, vaults, valves, catch basins, manholes, and overhead utilities. Potholing of utility crossings will be done to confirm x and y coordinates at each utility crossing so an accurate plan and profile can be designed.

After the preliminary design has been developed, the project will receive a comprehensive internal peer review prior to submittal and coordination with the District. This peer review will be utilized to ensure the preliminary design is clear, concise, comprehensive, and most importantly, meets the objectives of the District.

Siming Zhang, PE, will use his years of project management experience and will serve on the QA/QC Team. Siming has been responsible for the successful delivery of large-scale, multi million dollar water supply, and delivery projects for water agencies throughout the region. Siming will be the lead in performing quality control reviews for the projects. Siming has many years of experience in the planning, design, and construction of various booster pump and tank projects.

QA / QC PROCESS



Section 7. Subconsultants

LandMark Consultants, Inc. (LandMark)

Geotechnical Analysis
Contact: Greg Chandra, PE, M.ASCE, Principal

LandMark is a consulting firm providing geotechnical engineering and construction materials testing services in the Imperial, Riverside, and San Bernardino County areas of Southern California. The firm was incorporated in El Centro in 2003 with staff assembled in association with Southland Geotechnical since 1987. The staff of Landmark's El Centro office has been operating together since 1982 and has earned a reputation for high quality, cost effective, and responsive technical and professional service. The technical experience and commitment of LandMark Staff results in innovative, cost-effective geotechnical consulting services for small and large projects with challenging site conditions and issues. LandMark works with clients and other involved parties to develop strong working relationships based on integrity, mutual respect, and the shared commitment to designing and constructing noteworthy projects. WEBB has worked with LandMark for over 30 years.

SKM, Inc.

Electrical Engineering
Contact: Mark Jeppsen, PE, Principal

SKM, Inc. (SKM) will provide electrical engineering services for the District's project. SKM, Inc. is a premier electrical engineering firm specializing in SCADA (supervisory control and data acquisition), telemetry, and electrical and control design. They employ a staff of highly trained electrical engineers with extensive experience in electrical design, instrumentation and controls, and PLC and HMI programming and design services. Their focus on wastewater and water systems provide clients with extensive process knowledge and understanding of water well and treatment projects.

RF Yeager Engineering, Inc.

Corrosion Engineering
Contact: Richard F. Yeager Jr., PE

RF Yeager Engineering is a DVBE/SBE, SLBE, and SCOOP certified corrosion engineering firm providing corrosion control inspections and design services for the oil, fuel, water, and wastewater industries. Established in 2004, they have built strong relationships with many of the local public agencies and municipalities and truly believe that Client and Owner satisfaction is the method in which to measure a project's success. They pride themselves in being responsive to the Client's needs and to offer a quality product, personalized service, and at a competitive rate.

Section 8. References

Mead Valley Booster Pump Station

Eastern Municipal Water District

Client Contact:
Greg Kowaslski, PE, Engineering Manager
Eastern Municipal Water District
951.928.3777

The Mead Valley #1 Booster Pump Station (BPS) is an existing pump station that was originally constructed in 1964 and was renovated in approximately 2011. The BPS is located approximately 1,400-FT west of the intersection of Decker Road and Cajalco Road in Perris, California. The existing site is comprised on the existing BPS and the Cajalco Tank. The BPS is comprised of two vertical turbine pumping units, a 450 gpm unit and a 1,000 gpm unit that take suction from the Cajalco Tank.

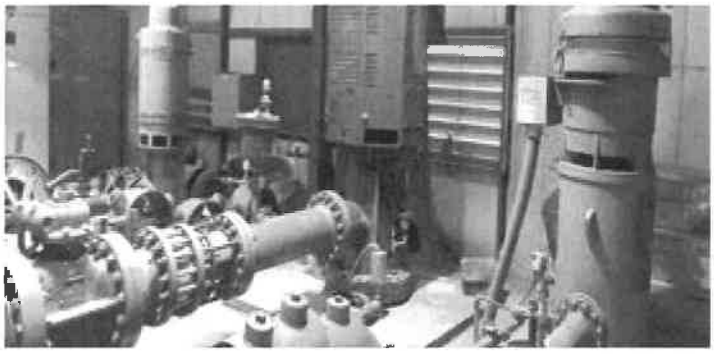
The District Operations is limited when operating the 1705 Pressure zone, the suction zone for the BPS, because the Cajalco Tank floor elevation is approximately 8-FT higher than the floor of the larger Decker Tank, limiting the cycling/draw down of the Decker Tank. It has been reported that air is drawn into the system when the Cajalco Tank completely empties. Recent geotechnical boring at the BPS site indicate that refusal was encountered at 15-FT bgs and a deep pump can is probably not feasible due to the high probability of bedrock and likely expensive excavation. The replacement for the existing Mead Valley I Booster Pump Station will be located at a new site that offers more robust hydraulic conditions for the pumps. The pump station will consist of four 1,200 gpm, 75 hp pumps, a chlorine generation system, chloramine injection system, in line mixer, pressure reducing valve and emergency generator all within a 4,900-SF block pump house. The station will be constructed per the District's Potable Water Booster Pumping Station Submittal and Design Guidelines. For this project WEBB conducted an alternative site analysis that ranked the sites based on an evaluation matrix. Findings from the site analysis were presented to the District at a siting study workshop. WEBB then prepared the Preliminary Design Report. WEBB will prepare the final design for the project.

The Armstrong Booster Station

Jurupa Community Services District

Client Contact:
Eddie Rhee, Engineering Manager
Jurupa Community Services District
951.685.7434 ext. 118

The Armstrong Booster Station Upgrade Project consists of the demolition of the existing facilities, the addition of one vertical turbine pump and motor to an existing two pump facility, including the construction of a block building, below and above grade on-site piping, valves, fittings and appurtenances, electrical work, controls, starters, construction phasing in order to maintain operations of existing pump station, including temporary bypass pumping, electrical cabinets, SCADA, and site and paving work. The WEBB Team completed the design and is now providing engineering support and inspection services for this project.



Booster Stations No. 1 and No. 2

Crestline Lake Arrowhead Water Agency

Client Contact:
Jennifer Spindler, General Manager
Crestline Lake Arrowhead Water Agency
(CLAWA)
909.338.1779

WEBB provided engineering services preparing a preliminary design report (PDR) to evaluate adding additional capacity at Booster Station No. 1 (BS 1) and Booster Station No. 2 (BS 2).

BS 1 is located at the east end of the water treatment plant and has a total of six pumps. Four of the existing pumps are electric and two are gas driven units. The static pressure at BS 1 is 710 psi. For backup power, the pump station has a one megawatt natural gas generator. This pump station is operated manually by changing SCADA settings at the WTP. Flow rates are adjusted periodically based on system demand and as required to maintain water levels in the storage reservoirs.

BS 2 is located in Crestline at CLAWA's main office. The two 5 MG Crestline tanks are in series and act as forebays for the pumps as well as storage volume for the downstream pressure zone. There is a total of four existing pumps in BS 2, three electric and one gas driven pumping units. Pump controls are tied to the level sensors at the Strawberry Peak Tank.

Following preparation of the PDRs for each booster station, WEBB prepared final design documents for BS 1 that included the installation of a natural gas engine (600 hp) and related components and an engine driven vertical turbine pumping unit (750 gpm). The work also included site work, coordination with the gas company, mechanical work and piping, installation of heat exchanger, discharge piping and vaults, footings and foundations, and a metal canopy cover over the new gas engine driven pumping unit.

WWTP High Services Booster Station

City of Imperial

Client Contact:
Dennis Morita, City Manager
City of Imperial
760.355.4373

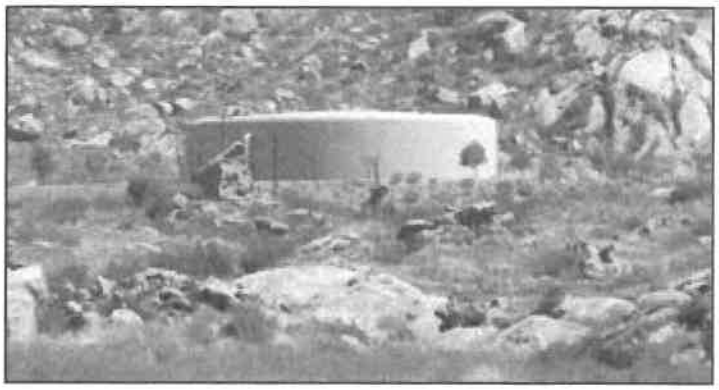
Due to rapid population growth, the existing booster station was unable to meet the City's maximum day demands. WEBB prepared plans and specifications for a new high service booster station for the City of Imperial. The new facility included four 150-HP (2500 GPM each) pumping units with variable speed drives, pressure controls, sodium hypochlorite feed system, chlorine analyzers, recorders, PLC controls, and complete backup power. The entire pump station and chlorination system was constructed within a new building. WEBB also worked very closely with City Staff to perform construction management and on-site inspection during construction. WEBB was also responsible for preparing the operational descriptions for the programming as well as performing facility validation testing.

O'Ferrell Street Booster Pumping Station

Eastern Municipal Water District

Client Contact:
Greg Kowaslski, PE, Engineering Manager
Eastern Municipal Water District
951.928.3777

WEBB's engineering services for this project for Eastern Municipal Water District (EMWD) include planning and design for a 1,000 gpm potable water pump station (2-500 gpm vertical turbine pumps with 1-500 gpm stand by pump) including site acquisition, metering, reverse flow control valves, masonry block building, emergency generator, site improvements (paving, block wall, gates) suction and discharge pipelines, access road, and demolition of the existing booster station. WEBB also provided all environmental documentation services for a complete Initial Study/Mitigated Negative Declaration for the project. WEBB assisted EMWD in submittal reviews, engineering support and start up. The booster station is now in service providing trouble free operation for EMWD.



Longview Tank and Watson Road Booster Station

Eastern Municipal Water District

Client Contact:
Greg Kowalski, PE, Senior Civil Engineer
Eastern Municipal Water District
909.928.3777 Ext. 4466

The Watson Road Booster Pump Station was a key part of the Vista Ellis Pressure Zone Improvement project. WEBB completed the preliminary design, final design and construction support for this project. The pump station consisted of three 1,300 gpm, 100 hp pumps, pressure reducing valve and emergency generator all within a 2,200 sqft block pump house.

The Longview Tank was the second key part of the project. WEBB completed a siting study, preliminary design, final design and construction support for the 5.0MG welded steel tank along with the 24-in diameter pipeline to connect the tank into the system.

For the overall Vista Ellis Project, WEBB determined the deficiencies and necessary improvements to the Ellis (1693) Pressure Zone and all zones that currently obtain water supply through the Ellis Zone. Relocating the Vista Booster Station to balance supply to the Vista (1811) Pressure Zone, constructing new pipeline capacity to accompany the booster relocation, and providing new storage at 1720 HWL in the Ellis Zone were the three major near-term improvements the study concluded were necessary. WEBB provided preliminary, final design, and construction support services for the Vista and Ellis Zones Water System Improvement Project. The booster station and tank are now in services providing trouble free operation for EMWD.

ADDITIONAL BOOSTER PUMPING STATIONS (BPS) *(Partial List)*

Capacity (GPM)	Project	Client	Unique Features
1,000	O'Ferrell Street Booster Station	EMWD	Demolition of existing site
5,625	Watson Road Booster Station	EMWD	Includes disinfection facilities
6,000	Elsworth Temporary Booster Station	EMWD	Skid mounted package pumping facilities
1,000	Hidden Springs Booster Station	EMWD	Hydopnueumatic facility converted to pump storage
4,500	Craig Avenue Booster Plant	EMWD	Hydopnueumatic facility converted to pump storage
3,200	Redlands and Hemlock	EMWD	In-line interim pumping
5,400	Mockingbird Booster Station	WMWD	Split suction header-pumps from two sources
4,800	Arlington Desalter Booster Station	WMWD/SAWPA	
56,000	Holcomb Booster Station	WMWD	Natural gas and electric pump units
8,400	Oleander Booster Station	WMWD	Natural gas and electric pump units
21,900	Bergamont Booster Station	WMWD	Combined potable & non-potable station
1,200	Rolling Meadows Booster Station	WMWD	Constant pressure converted to pump storage
1,200	Lake Hills 1550' PZ Booster Station	WMWD	Constant pressure converted to pump storage
1,100	Lake Hills 1860' PZ Booster Station	WMWD	Constant pressure to pump station
2,500	Jewel Street Booster	JCSD	
1,200	Armstrong Booster	JCSD	
4,500	56th Street Booster Station	JCSD	
750	Indian Hills Booster Station	JCSD	
2,000	Clay Street Booster Station	JCSD	
3,500	Silverwood High Service Booster Station	CLAWA	500 psi discharge pressure
3,700	Crestline Booster Station	CLAWA	350 psi discharge pressure
6,000	Calipatria Raw Water Booster Station	GSWC	Low suction head
	Claraboya	GSWC	
4,000	Aten Road Booster Station	Imperial	VFD's
7,500	Imperial Treatment Plant High Booster Station	Imperial	VFD's, on-site treatment
6,000	Calipatria Raw Water BPS	GSWC	Low suction head
4,000	Aten Road BPS	Imperial	VFD's
7,500	Imperial Treatment Plant High BPS	Imperial	VFD's, on-site treatment
430	Booster Station 07101	CVWD	
200	Booster Station 07102	CVWD	
1,750	Booster Station 07990	CVWD	

WATER RESERVOIR EXPERIENCE *(Partial List)*

Material	Volume (MG)	Project	Client	Comments
Concrete	1.0 MG &1.5 MG	Evaluation of Golden & College	GSWC	Seismic and Structural Evaluation
Concrete	11.8 MG	Sunnyslope Tank	JCSD	New Pre-Stressed Concrete Tank
Concrete	15.0 MG x 3	Lindsay Tank	JCSD	Included Concrete vs Steel Evaluation
Concrete	3.2 MG	Mittry	LACSD	Tallest Pre-stressed Concrete Tank in CA
Concrete	0.5 MG	Arlington Desalter Reservoir	WMWD	Concrete Poured in Place Reservoir
Steel	3.0 MG	Charter Oaks	City of Covina	Seismic and Structural Evaluation
Steel	1.0 MG	CSA 122 Mesa Verde	County of Riverside EDA	Clearwell for Treatment Plant
Steel	5.6 MG	Longview	EMWD	Part of Vista/Ellis Improvements
Steel	1.79 MG	Belle Terre Tank	EMWD/Taylor Morrison	Environmental Constraints on site plan
Steel	1.8 MG	Judson Tank	EMWD	Berms and Grading to hide tank
Steel	1.0 MG	El Nido	WMWD	Convert Existing to Recycled Water
Steel	5.0 MG x 5	Beverly Hills Tanks 3A, 4B, 5, 6, & 7	City of Beverly Hills	Seismic and Structural Evaluation
Steel	1.0 MG	Rancho La Merced	City of Covina	Tank Evaluation and Replacement
Steel	3.0 MG	Evaluation	City of Covina	Tank Evaluation and Replacement
Steel	2.3 MG	Clearwell No.2 Treatment Plant	CLAWA	New Clearwell for Plant
Steel	5.0 MG x 2	Crestline Tanks	CLAWA	Analysis and Reservoir Refurbishment
Steel	2.0 MG	Strawberry Tank	CLAWA	Analysis and Reservoir Refurbishment
Steel	0.4 MG	New Barn Steel Replacement	CLAWA	Tank Replacement per Analysis
Steel	1.0 MG	Pincrest Reservoir	CVWD	New Replacement Tank
Steel	0.18	Old Mill Tank	CVWD	Initial Re-coating Refurbishment
Steel	0.70	Old Mill Tank (New)	CVWD	Tank Replacement Based Upon Engineering Analysis
Steel	0.34	Saxon Tank	CVWD	Seismic Upgrade and Retrofit
Steel	1.20	Lakeview Tank	CVWD	Seismic Upgrade and Retrofit
Steel	0.40	Barn Tank	CVWD	Tank Replacement Based Upon Engineering Analysis
Steel	1.00	New Chamois Tank	CVWD	Tank Replacement Based Upon Engineering Analysis
Steel	0.34	Chillon Tank	CVWD	Seismic Upgrade and Retrofit
Steel	0.4 MG	Zurich II & III	CVWD	Tank Evaluation and Replacement
Steel	0.7 MG	Mill Reservoir	CVWD	New Replacement Tank
Steel	1.8 MG	MV2060 (Judson)	EMWD	PDR for Future Tank
Steel	2.0 MG	La Laguna Tanks	EVMWD	Series of four Reservoirs
Steel	1.0 MG x 4	Calipatria Tanks	GSWC	New Reservoir
Steel	Varies	Evaluation and Analysis	GSWC	Seismic and Structural Evaluation
Steel	6.0 MG	Mira Loma	JCSD	Seismic Upgrade and Retrofit
Steel	0.21 MG	Benedict Reservoir	JCSD	Expansion Joint and Refurbishment
Steel	2.3 MG	North Shore Reservoir	LACSD	New Reservoir
Steel	Varies	Analysis of Various Reservoirs	LACSD	Evaluation of 14 Reservoirs
Steel	1.5 MG	Curtis Development	Newhall County WD	New Reservoir
Steel	3.0 MG	Northlake Development	Newhall County WD	New Reservoir
Steel	1.5 MG	Bellegrave Reservoir	SARWC	Tank Retrofit and Upgrades
Steel	2.7 MG	Hidden Valley	WMWD	New Reservoir
Steel	4.0 MG	Harley John	WMWD	Tank Replacement

WATER RESERVOIR EXPERIENCE *(Partial List)*

Material	Volume (MG)	Project	Client	Comments
Steel	5.0 MG	Lock Wood	WMWD	New Reservoir
Steel	7.0 MG and 6.7 MG	Markham I & II Tanks	WMWD	New Reservoir
Steel	10.0 MG	La Sierra Tank	WMWD	New Reservoir
Steel	12.5 MG	Orangecrest Reservoir	WMWD	New Reservoir
Steel	1.0 MG	El Nido	WMWD	New Reservoir
Steel	5.0 MG	Luirn	WMWD	Refurbish/Recoat

Section 9. Certificate of Professional Liability Insurance

ALBEAWE-01 RDEANDA

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 1/16/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER License # 0757776 HUB International Insurance Services Inc. PO Box 5345 Riverside, CA 92517	CONTACT NAME: Kristie Koehrer PHONE (A/C, No, Ext): (951) 779-8558 FAX (A/C, No): (951) 231-2572 E-MAIL ADDRESS: cal.cpu@hubinternational.com
INSURED Albert A. Webb Associates 3788 McCray Street Riverside, CA 92506	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A: Travelers Property Casualty Company of America — 25674 INSURER B: Lexington Insurance Company — 19437 INSURER C: INSURER D: INSURER E: INSURER F:

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X $0 Deductible GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC OTHER:			P-630-8W805292-TIL-23	9/1/2023	9/1/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			BA-9T94622A-23-43-G	9/1/2023	9/1/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 0			CUP-9T948494-23-43	9/1/2023	9/1/2024	EACH OCCURRENCE AGGREGATE	$ 2,000,000 $ 2,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: Y N/A If yes, describe under DESCRIPTION OF OPERATIONS below			UB-4J648178-23-43-G	9/1/2023	9/1/2024	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	Professional Liab.			031711122	9/1/2023	9/1/2024	Ded $25k/EaClaim 2M	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
For Informational Purposes Only.

CERTIFICATE HOLDER

For Insured's Purpose Only

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

Section 10. Schedule of Rates

ALBERT A. WEBB ASSOCIATES

Fee Schedule

CLASSIFICATION

Engineers/Project Managers/Planners/Scientists/ Assessment/Special Tax Consultants/Landscape Architects/Designers	Rates $/Hour
Principal II	312.00
Principal I	298.00
Senior III	280.00
Senior II	267.00
Senior I	258.00
Associate III	240.00
Associate II	229.00
Associate I	217.00
Assistant V	196.00
Assistant IV	176.00
Assistant III	163.00
Assistant II	147.00
Assistant I	130.00
Survey Services	
2-Person Survey Party	326.00
1-Person Survey Party	234.00
Inspection Services	
Construction Manager II	280.00
Construction Manager I	200.00
Inspector (Non-Prevailing Wage)	141.00
Inspector Overtime (Non-Prevailing Wage)	190.00
Inspector (Prevailing Wage)	152.00
Inspector Overtime (Prevailing Wage)	200.00
Administrative Services	
Project Coordinator	141.00
Administrative Assistant III	120.00
Administrative Assistant II	107.00
Administrative Assistant I	85.00
Other Direct Expenses	
Incidental Charges	Cost + 15%
Postage	Cost
Subcontracted Services	Cost + 15%
Special Consultant	385.00
Survey/Inspection Per Diem	Prevailing Wage Rate
In-House Delivery Up to 1/2 hour	36.00
In-House Delivery 1/2 Hour up to 1 Hour	70.00
In-House Delivery Over 1 Hour up to 2 Hours	130.00
In-House Delivery Over 2 Hours	185.00
Survey/Inspection Vehicle	0.81/Mile
Mileage	0.72/Mile

Note: All rates are subject to change based on annual inflation and cost of living adjustments. Prevailing wages are dictated by the California Department of Industrial Relations (DIR). As such, the indicated rate will remain in effect until revised rates are published by the DIR. The rate shown shall be subject to renegotiation to remain in compliance with State requirements if prevailing wages are increased by the DIR.

* ***A FINANCE CHARGE*** *of 1 ½ % per month (18% per year) will be added to any unpaid amount commencing thirty (30) days from invoice date. A mechanic's lien may be filed for any invoice remaining unpaid after thirty (30) days from invoice date.*

Section 11. List of Assumptions and Inclusions/Exclusions

List of Assumptions:

1. All Meetings are virtual except: Site Visit, Pre-Bid Meeting, and Bid Opening.
2. Design fee is based on a Welded Steel Tank with concrete ringwall foundation per AWWA D-100 latest, including the detailed design of a cathodic protection system.
3. Design of a concrete tank is excluded but can be provided as a contract amendment.
4. Surge analysis is excluded but can be provided as a contract amendment.
5. Potholing will be performed by District forces or others.
6. Grant Application preparation is excluded.
7. Monthly meeting budget is based on no more than eight meetings.
8. Survey is based on approximately 1 acre.
9. Utility research and mapping based on plans and any field markings provided by the District.
10. Bid Support is based on a typical responses to Bidder's questions with no major plan revisions.

Section 12. Iran Contracting Act Certification

IRAN CONTRACTING ACT CERTIFICATION

(Public Contract Code section 2200 *et seq.*)

As required by California Public Contract Code section 2204, the Proposer certifies subject to penalty for perjury that the option checked below relating to the Proposer's status in regard to the Iran Contracting Act of 2010 (Public Contract Code section 2200 *et seq.*) is true and correct:

☑ The Proposer is not:

(i) identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203; or

(ii) a financial institution that extends, for 45 days or more, credit in the amount of $20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.

☑ The District has exempted the proposer from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, the District will be unable to obtain the goods and/or services to be provided pursuant to the contract.

☑ The amount of the contract payable to the Proposer for the work does not exceed $1,000,000.

Signature: _____

Title: Bruce Davis, PE, Senior Vice President

Firm: Albert A. Webb Associates

Date: 02/20/2024

Note: In accordance with Public Contract Code section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of $250,000 or twice the Contract Price, termination of the Contract and/or ineligibility to bid on contracts for three years.

Section 13. Public Works Contractor Registration Certification

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See http://www.dir.ca.gov/Public-Works/PublicWorks.html for additional information. No bid or proposal will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Proposer hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

Name of Proposer: Albert A. Webb Associates

DIR Registration Number: 100000629

Proposer further acknowledges:

1. Proposer shall maintain a current DIR registration for the duration of the project or contract.

2. Proposer shall include the requirements of Labor Code sections 1725.5 and 1771.1 in any contract with subcontractors and ensure that all subcontractors are registered at the time of the proposal submittal and maintain registration status for the duration of the project.

3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Signature: 

Name and Title: Bruce Davis, PE, Senior Vice President

Dated: 02/20/2024

Addenda Acknowledgment

WEBB acknowledges receipt of Addendum No. 1.

TWENTYNINE PALMS WATER DISTRICT

ADDENDUM 1

To
Preliminary and Final Design Engineering Services
for
Redundant Treated Water Reservoir and Booster Pump Station Project
at the Fluoride Removal Plant

The following questions were submitted to Twentynine Palms Water District (TPWD or District) after the mandatory pre-proposal meeting held on January 25, 2024:

Q1: Will addenda be counted towards the page limit?
A1: No

Q2: Twentynine Palm Water District's public purchase site does not have an area to confirm interest in this solicitation. Should there be a button of some sort that allows for this?
A2: TPWD does not have this option with Public Purchase for this proposal.

Q3: Referencing Proposal Requirement #6, you explain that you want proof of professional registrations. Would a table with active license numbers be sufficient? Will this be counted towards the page limit?
A3: TPWD is not specific on how to communicate this information – it is up to the proposer. For example, inclusion of PE license information on individual resumes is sufficient.

Q4: Referencing Proposal Requirement #9, you explain that our reference projects should be similar in size. What do you mean by size?
A4: 'Size' refers to a project of similar construction cost to the TPWD project. As a clarification to Proposal Requirement #9, the references shall be from the project owner.

Q5: Referencing Proposal Requirements #10, 11, 13, and 14, will these forms all be counted towards the page limit?
A5: Only item 12. That information should be included in the response to Proposal Requirement #4. As a clarification to Proposal Requirement #4, the item should read, "scope of work and approach which clearly ..."

Q6: Do we need to provide proof of professional liability insurance for subs as well or just the prime?
A6: Prime only. Subs will be required to provide this information prior to performing field work on TPWD property.

Q7: Will you be utilizing the front ends specs from the Treated Water Reservoir Coatings Improvement project as guide specs?
Q8: Front end specifications provided by TPWD will be similar to previous Requests for Bid.

Q9: Will CEQA support be required for this work or will the District be responsible for the CEQA?
A9: Consultant will provide a Project Description that will be forwarded to the District's consultant responsible for the CEQA process.

Q10: Will a standby generator or connection for a standby generator be required for this project?
A10: No. New facilities will be integrated into the existing plant standby generator.

Q11: Will the District be responsible for potholing utilities? If the District is not potholing the utilities, will they be marking out the utilities?
A11: TPWD will identify all known utilities upon request from the consultant. If potholing is required, District forces will perform those services.

Q12: Please confirm that a surge analysis for the pump station will not be required for this project or can be considered optional work.
A12: Proposers should identify and describe the appropriate level of hydraulic analysis in their approach and understanding of the project.

Q13: Can a firm propose to provide only the geotechnical report?
A13: No. The Prime shall include the entire scope of work described in the RFP. This does not preclude a geotechnically-focused firm from acting as prime; however, they would need to describe how the balance of work would be performed.

Q14: Will/Can the Pre-Submittal Meeting Attendee List be made available?
A14: Yes. Pre-proposal attendees:

- Webb & Associates
- Earth Systems
- Kennedy Jenks
- Rain for Rent

Additional corrections and clarifications:

1. Fix spelling of 'flouride' on RFP title sheet to read "fluoride."
2. Project is expected to be approximately a 10-month design effort, with 2-week turnaround on TPWD reviews. Proposers shall add a schedule to their 'understanding of the project' section and will be given credit for finishing the design in less time.

3. In Proposal Requirement #3, proposers shall score higher with a more cost-effective design, not cheaper design.

4. TPWD's starting expectation for the design:

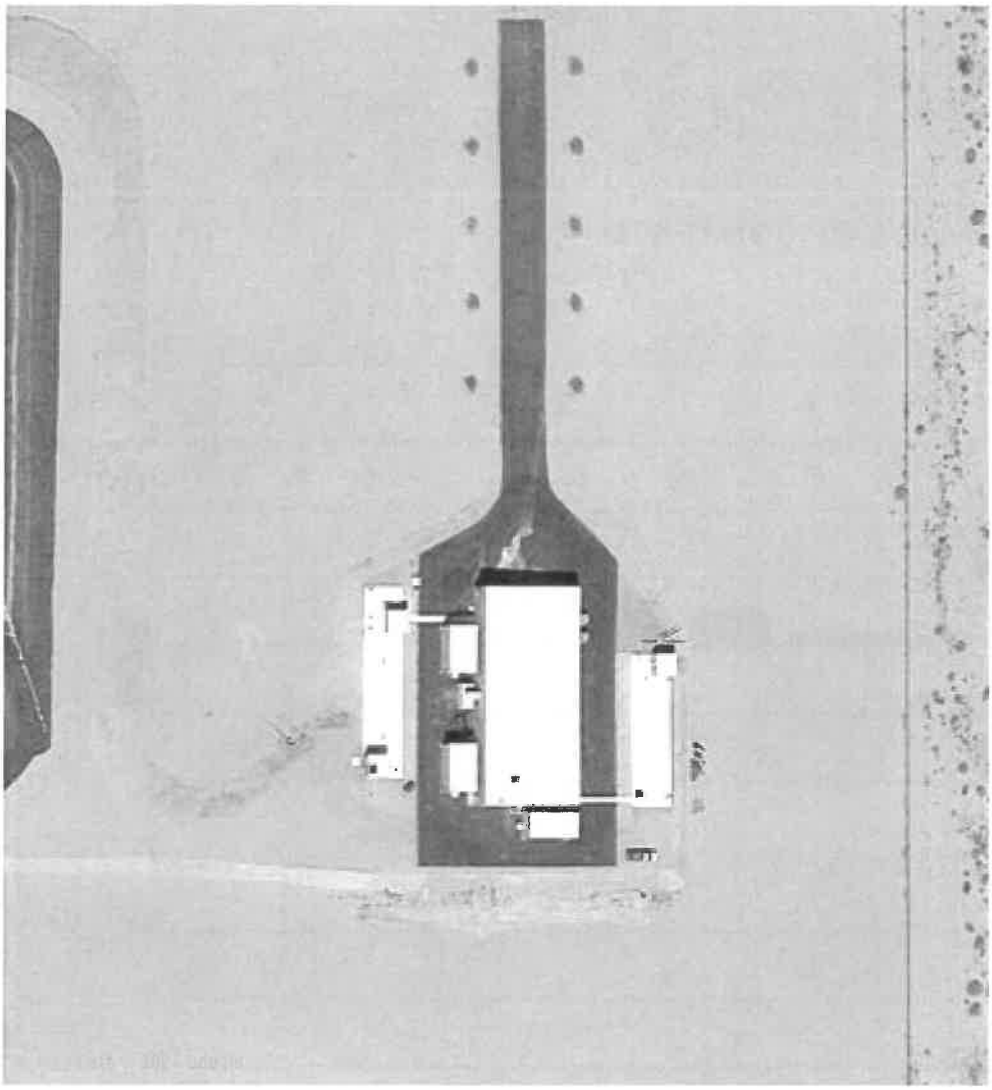
    a. The tank design is a steel tank on grade.
    b. The power feed to the existing pumps will be used to feed the new pumps, which will not coincidentally operate.
    c. Valves will all be manual valves with position indication to SCADA only, pumps can be started locally or remotely from SCADA, include standard protection alarms and interlocks.

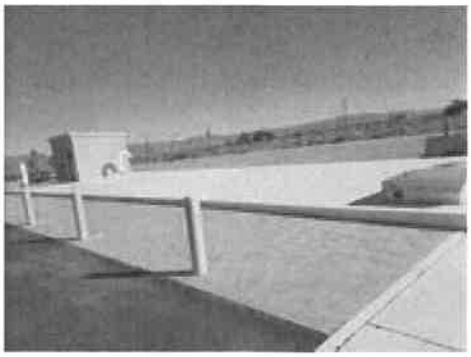
5. Disregard the "EXTENT OF SURVEY" area in the RFP graphic. Proposer will describe the extent of survey appropriate to this project in their understanding of the project.

6. Resumes are not included in the 20-page maximum.

7. After scoring proposals, TPWD reserves the right to conduct interviews with proposers. This decision will be made at the District's discretion.

END OF ADDENDUM 1





Twentynine Palms Water District

Preliminary and Final Design Engineering Services for Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant

February 20, 2024

Kennedy Jenks

PR # Proposal Requirement

MQ # Minimum Qualifications

TABLE OF CONTENTS

Kennedy Jenks

PR 1

February 20, 2024

MQ 3

Matt Shragge | General Manager
Twentynine Palms Water District
72401 Hatch Road, Twentynine Palms, CA 92277

Subject: Proposal to Provide Preliminary and Final Design Engineering Services for Redundant Treated Water Reservoir and Booster Pump Station Project at the Fluoride Removal Plant

Dear Mr. Shragge:

As your consultant for the **Treated Water Reservoir Coating Improvement Project**, Kennedy/Jenks Consultants, Inc. (KJ) understands Twentynine Palms Water District's (TPWD) decision to construct an above-grade reservoir and booster pump station (PS). This decision will avoid needing a temporary bypass and provide flexibility and redundancy when your reservoirs at the Fluoride Removal Plant (FRP) need servicing. When we work with TPWD, we provide knowledge of the project, an understanding of site issues, and a familiar team with technical competence. This enables us to deliver your project on time and within budget. Our team provides the following:

Familiar Faces Backed by National Resources. Our team has all worked together to deliver projects for TPWD and other clients. Our Project Manager, **Rachel Druffel-Rodriguez**, has served you since 2015, participating in and delivering 10 projects. Our Principal Design Engineer, **Ray Lyons**, is known for his booster PS and above-grade reservoir expertise and has delivered projects for TPWD such as **Ponds #1, 2, and 3**, and **Well 11B** at the FRP. Our Hydraulics Lead, **Anson Chan**, is key to KJ's national hydraulics practice and provides experience in booster PS design, rehabilitation, construction, and hydraulic modeling. We are backed by national resources to ensure timely responses and high-quality deliverables. **Our experience working together and access to national experts promotes communication, responsiveness, and collaboration to meet deadlines and deliver cost-effective solutions.**

Anticipating and Resolving Key Issues from Our History with TPWD. KJ has built a strong relationship with TPWD since 1991. Over that time, we have assisted you in delivering 37 projects. Our experience on those projects gives us an understanding of your site specifics and potential issues associated with stormwater management, site access, hydraulics, power, chlorine contact, and water quality. Additionally, we were responsible for developing and updating your standard drawings and front-end specifications. **Our familiarity enables us to enhance our grasp of your site intricacies, internal processes, and contractual requirements, which will help reduce the time needed at the beginning of your project and allow us to focus on anticipating challenges and offering cost-efficient solutions.**

A Collaborative Approach Prioritizes Staff Buy-in Early and Often. We understand TPWD's engineering and operations groups work closely to keep the FRP running smoothly. We also understand that your staff's time is invaluable as projects and daily operational tasks are being performed concurrently around the FRP. To ensure we deliver a design that suits you best, we will approach your staff when important decisions need to be made throughout the design. **By proactively engaging with your staff during critical decision points, we ensure that the final design aligns seamlessly with your operational needs, saving valuable time and enhancing the overall efficiency of functions for the FRP.**

We look forward to working with you on this project and continuing to deliver the best value to TPWD, the city's residents, and the community. Additionally, KJ has reviewed your standard Professional Services Agreement, and we can execute the contract fully. Don't hesitate to contact me at **(858) 676-7532** or **RachelDruffel-Rodriguez@kennedyjenks.com**, should you have any questions regarding our submittal.

Very truly yours,
Kennedy/Jenks Consultants, Inc.

Rachel Druffel-Rodriguez, PE
Project Manager

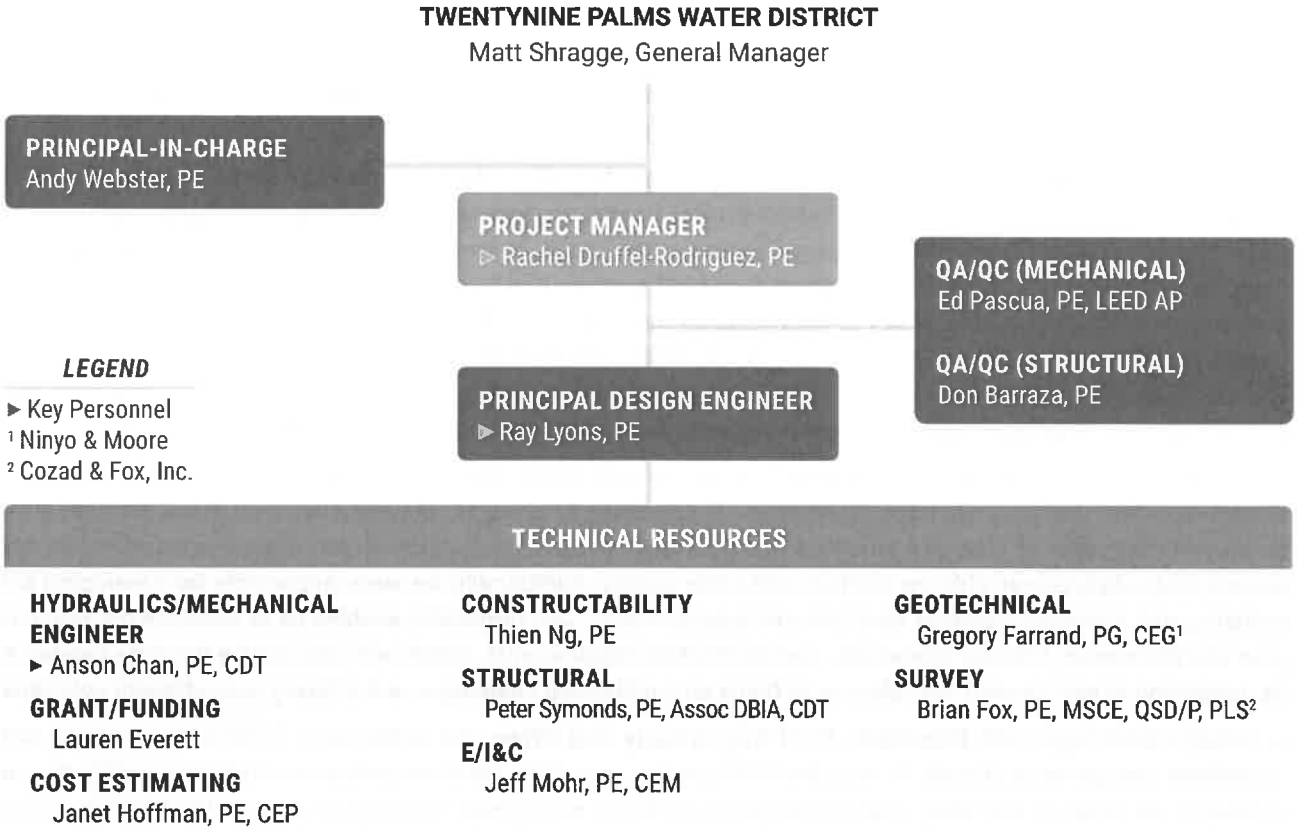
Ed Yang, PE, Assoc DBIA
Vice President

Team Qualifications

PR 2

Crafting Success: Our Expert Trio Focuses On Timely Delivery

At the heart of our proposed team lies a powerful combination: familiar faces with a proven track record and the robust backing of national resources. Our team members have all collaborated seamlessly on projects of similar scope for other clients. Our core team, comprising Project Manager, **Rachel Druffel-Rodriguez**, Principal Design Engineer, **Ray Lyons**, and Hydraulics/Mechnical Engineer, **Anson Chan**, provides the technical and interpersonal experience required to deliver your project and is backed by national expertise as needed to provide cost-effective solutions to mitigate timely schedule issues. **With an unwavering commitment to TPWD's success, our team leverages national resources to ensure timely responses, high-quality deliverables, and seamless collaboration, fostering open communication and rapid responsiveness.**



Your Easy Button: A Shared History of Success Extending Beyond this Project

Since 1991, KJ has cultivated a partnership with TPWD. Our collaboration has spanned over 35 projects. Through our experience, we've gained a deep understanding of your site specifics and firsthand knowledge of key issues your project will face. We can apply our national experience to provide customized solutions to those issues.

Our commitment to TPWD extends beyond this project. Core members of our team have pledged effort to make sure our community has the resources it needs. We've been the architects behind your standard drawings and front-end specifications, ensuring consistency and efficiency. As this project begins, our familiarity with TPWD's intricacies becomes our greatest asset. Our shared history will allow us to hit the ground running, anticipating hurdles and quickly offering cost-effective solutions serving as a compass guiding us toward success.

MQ 1

MQ 2

Rachel Druffel-Rodriguez, PE Project Manager

Years of Experience: 10 | **Professional Registrations:** Professional Engineer - CA (89191)

Rachel will serve as your central point of contact throughout the project. Her weekly interactions with TPWD and proactive approach to communication will allow our team to focus on meeting deadlines and your team to focus on other concurrent projects. Additionally, she will manage the schedule, budget, and subcontractors.

Design and Construction Management Experience Related to the Preliminary Scope of Work

- Currently serves as TPWD's client service manager, where she proactively communicates with your staff for ongoing needs with other projects and as-needed contracts
- She has served TPWD since 2015, performing 10 projects in that time, including managing the same core team on the Treated Water Reservoir Coating Improvement Project and the Standard Drawings Update Project
- She will leverage her role as project manager for the Standard Drawings Updates project to make sure additional standards are updated as this project progresses
- Her versatile work experience includes roles ranging from project manager to project engineer, and she has seamlessly transitioned to the management of construction and engineering services during construction, allowing her to manage projects at every stage effectively
- She has led water treatment and conveyance system design efforts, drawing from her background as a hydraulic modeler
- She has experience in securing grant funding, managing grant-funded projects, and conducting planning feasibility studies

Quality of Relevant, Prior Project Performance

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | Project Manager

She coordinated multidisciplinary services, ensuring compliance with regulatory standards, and facilitating seamless communication with the client and building authorities. Her approach streamlined the permitting process, allowing us to move efficiently toward construction. KJ has been developing the design for the East Dunne Booster PS modifications and the East Dunne Hillside Water Reservoir. We have collaborated closely with City staff and ensured that the design services meet professional standards.

Client Reference: David Gittleson, Project Manager | (408) 310-4642

Wastewater Treatment Plant Rehabilitation Final Design and Construction, Rosamond Community Services District, Rosamond, CA | Project Manager/Construction Manager/Project Engineer

She led the design and construction of upgrading and expanding the existing treatment facility. The project involved upgrading and expanding the existing treatment facility, increasing its capacity from 0.5 to 1.27 million gallons per day (mgd). KJ evaluated the existing plant, focusing on rehabilitating the basin and the sodium hypochlorite bulk storage and injection system. Notable upgrades included a new septage receiving station, septage holding pond, secondary clarifier, sludge drying beds, a second Biolac treatment system, sludge pumps, utility water pumps, emergency overflow pond, and diversion pipelines. Despite the absence of reservoirs on this project, her expertise in managing pumps and conveyance systems ensures project success.

Client Reference: Brach Smith, Assistant General Manager (Formerly with RCSD) | (661) 943-3170

MQ 1

Ray Lyons, PE Principal Design Engineer

Years of Experience: 31 | **Professional Registrations:** Professional Engineer - CA (62157)

Ray will lead design efforts, ensuring attention to detail. He will assist Rachel with DDW permitting acquisition and coordinate our internal multidiscipline team. His internal coordination complements Rachel's external interface with TPWD. His experience with TPWD will allow us to proactively identify costly and schedule-delaying issues.

Expertise Related to the Preliminary Scope of Work and Expected Role

- He has collaborated with Rachel in the same capacity on the City of Escondido's Water Main Replacement and Rincon Treated Water Interconnection projects
- His expertise spans pipelines, PSs, and reservoirs, providing invaluable insights into addressing critical project challenges for your project
- Having worked with TPWD since 2009, which includes the Standard Drawings Update project, he has served as your sounding board and trusted advisor, providing our team with a distinct understanding of accompanying site issues and expectations helping us work more efficiently

Quality of Relevant, Prior Project Performance

Well 17 and Water Reservoir Design and ESDC, Linda County Water District, Marysville, CA | Principal Design Engineer

He led team coordination and the relocation of booster pumps, optimizing their distribution and ensuring seamless integration with the reservoir. KJ led the design of a water supply treatment and storage system across two adjacent sites. The first site includes a new well pump, pressure filter water treatment system, aeration system, and booster PS. The second site features a water storage tank and booster PS.

Client Reference: Javier Rios, District Engineer | (530) 743-2481

Anson Chan, PE, CDT Hydraulics/Mechanical Engineer

Years of Experience: 5 | **Professional Registrations:** Professional Engineer - CA (41702)

Anson will oversee reliability of your water distribution system by performing a hydraulic analysis, designing pumps, and managing piping and appurtenances. His experience working with Rachel and Ray, along with his expertise and attention to detail, streamlines communication between disciplines and contributes to the reliability, efficiency, and longevity of your water distribution system.

Expertise Related to the Preliminary Scope of Work and Expected Role

- His experience working with Rachel and Ray includes the City of Escondido's Rincon Treated Water Interconnection project, where he served as hydraulics/mechanical lead, and the Project Engineer for your Standard Drawings Update project
- He served as the Design Engineer for the Metropolitan Water District's Meyer Desalination Water PS project, where he coordinated among multiple disciplines and served as the client's main point of contact
- His booster PS design experience includes Elsinore Valley Municipal Water District's CLWTP Improvements Project where he performed a hydraulic analysis on their systems and oversaw all piping and appurtenances

Quality of Relevant, Prior Project Performance

Box Canyon Pump Station, City of Simi Valley, Simi Valley, CA | Principal Design Engineer

Anson led the effort for sizing and selecting the surge tank air compressors, identifying the optimal layout of mechanical equipment, and providing input for rerouting product water piping. He also helped select a new location for a temporary tank and piping relocation for a bypass. The Box Canyon PS System comprises three PSs and five water storage tanks. Previous studies highlighted aging infrastructure issues, including concrete damage, corroded pump components, and insufficient redundancy. Recommendations include upgrading Stations 1, 2, and 3 and replacing the 36,000-gallon bolted steel tanks to enhance seismic resilience.

MQ 1

Name Role | Years of Experience	Expertise Related to the Preliminary Scope of Work and Expected Role
Andy Webster, PE Principal-in-Charge | 35 Years	• Andy has worked for TPWD since 2018 serving on 5 projects in that time • He is locally based and understands the resources needed to deliver reservoir, PS, and pipeline projects due to his relevant project experience • Experience understanding, delivering, and meeting expectations of TPWD staff for your water infrastructure CIP projects, which include the Water Pipeline & Storage Tanks project
Don Barraza, PE QA/QC (Structural) | 37 Years	• Don has performed structural design of over 70 steel reservoirs, 17 PSs, and more than 30 water treatment plants, and has served as a senior-level reviewer for over a dozen water treatment plant projects • He is leading QA/QC (Structural) efforts for the City of Morgan Hill's East Dunne Hillside Water Reservoir and Booster PS project
Ed Pascua, PE, LEED AP QA/QC (Mechanical) | 23 Years	• Ed will leverage his experience as KJ's process mechanical lead to apply his vast library of lessons learned when reviewing deliverables • He is leading QA/QC (Mechanical) efforts for the City of Morgan Hill's East Dunne Hillside Water Reservoir and Booster PS project
Lauren Everett Grant/Funding | 21 Years	• Lauren has worked with TPWD since 2008 and currently serves as your trusted Grant/Funding expert • She has been instrumental in assisting our national grant funding team in winning more than $520M in funding for our client's projects, including working with the California Department of Water Resources, California Office of Emergency Services, Federal Emergency Management Agency, US Bureau of Reclamation, US Environmental Protection Agency, State Water Resources Control Board, the Wildlife Conservation Board, and California State Parks
Janet Hoffman, PE, CEP Cost Estimator | 28 Years	• Janet is a Certified Estimating Professional with experience in the design and construction of public, industrial, and institutional facilities • She regularly provides detailed cost estimates for planning, design, and construction for municipal and industrial water projects, as well as opinions of probable construction costs
Thien Ng, PE Constructability | 34 Years	• Thien provides an understanding of TPWD's expectations and pain points through his unique dual perspective serving as a consultant and an assistant public works director at the City of Oxnard • He has served in a similar capacity for the City of Poway's Construction Management for Clearwell Bypass (Steel Reservoir) and has managed pumping facilities throughout his time serving at the City of Oxnard
Peter Symonds, PE, Assoc DBIA, CDT Structural | 19 Years	• Peter is serving as the structural lead for the Treated Water Reservoir Coating Improvement Project for TPWD • He will leverage his experience as KJ's national structural lead to ensure the quality of work and solutions being produced meets the expectation of the project quality assurance requirements
Jeff Mohr, PE, CEM E/I&C | 25 Years	• Jeff is currently involved in serving as TPWD's advisor for their SCADA updates • He serves as KJ's national E/I&C lead, which provides him with the national understanding needed to deliver creative, cost-effective solutions efficiently

PR 8
MQ 1

Ninyo & Moore Geotechnical

Principals: Avram Ninyo, PE, GE, Principal Engineer; Gregory T. Farrand, PG, CEG, Principal Geologist; Kenneth H. Mansir, PE, GE, Principal Engineer; Jeffrey T. Kent, PE, GE, Principal Engineer; William Morrison, PE, GE, Principal Engineer

Relevant Firm Qualifications

Ninyo & Moore has extensive experience providing geotechnical services to Water Districts throughout Southern California for more than 45 years. They have worked with TPWD over the past six years, including delivering three projects. They have worked with KJ for the past 20 years, including 36 projects. Recent experience working with KJ includes experience at TPWD's water treatment plant. **This experience, in addition to their proven, certified, and capable professional staff, will benefit TPWD in performing an accurate geotechnical investigation of the project area.**

Name Role | Years of Experience	Expertise Related to the Preliminary Scope of Work and Expected Role
Gregory Farrand, PG, CEG Geotechnical | 45 Years	• Gregory's professional experience includes geologic and geotechnical investigations for water treatment plants, above-ground steel reservoirs, and booster PSs • He has performed extensive field mapping, analyses of borings and trenches, seismic refraction surveys, remote sensing surveys, and environmental studies • His experience includes QA/QC review of geotechnical investigations and analyses for clients, including TPWD, Padre Dam Municipal Water District, City of Poway, and City of San Diego

Cozad & Fox, Inc. Survey

Principals: Brian Fox, PE, MSCE, QSD/P, PLS

Relevant Firm Qualifications

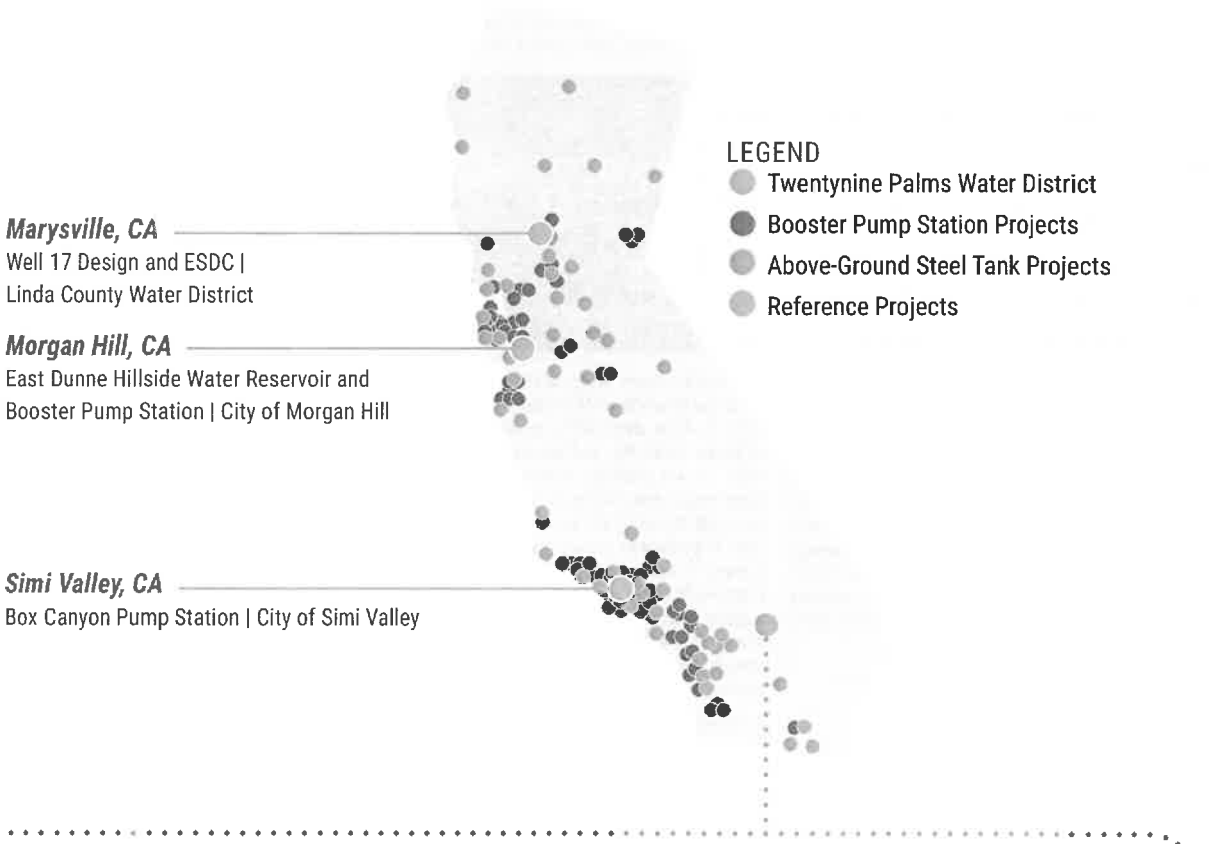
Cozad & Fox, Inc. has been providing surveying services to municipal agencies since 1977. They have led over 100 surveying projects for municipal agencies focused on booster PSs, pumping plants, water storage tanks, and other facilities. Additionally, they have worked with KJ since 2009 completing over 26 projects together in that time. **Their surveying expertise provides the foundation for well-informed design decisions. By mapping existing terrain, property boundaries, and utility corridors, they enable efficient infrastructure planning.**

Name Role | Years of Experience	Expertise Related to the Preliminary Scope of Work and Expected Role
Brian Fox, PE, MSCE, QSD/P, PLS Survey | 28 Years	• With 28 years in the field, Brian brings a wealth of surveying experience to the team and has played a pivotal role in shaping the firm's surveying success • His work at the Metropolitan Water District involved GPS surveys for critical projects such as the Eastside Reservoir Project • He has also contributed significantly to design and construction surveys for pipelines, treatment facilities, and pumping plants

Project Qualifications

Local Above-Ground Steel Reservoir and Booster Pump Station Experience

KJ has national experience helping clients identify customized, cost-effective solutions for their most complex above-ground steel reservoir and booster PS challenges. In California, we have specialized in creating reliable and sustainable water infrastructure since 1919. In recent years, we have completed over 80 booster PS projects and over 60 above-ground steel reservoir projects. **On the map below, we highlight relevant reference projects accompanied by detailed descriptions identifying the relevance of project scope and size, as well as client references, and relevant staff on the following pages.**



Understanding the Past to Pave a Path Forward

In 2021, KJ was hired by TPWD for the **Treated Water Reservoir Coating Improvement Project**. The project required coating the interior of the concrete reservoir and removing the steel bracing and base plates following the Seismic Evaluation Report. However, to perform the project, a temporary bypass would be needed to keep the plant fully operational. During the cost evaluation of the temporary bypass, it grew apparent that installing a temporary bypass system would be more costly than constructing a similar above-grade reservoir and booster pump station. TPWD opted to forego the temporary bypass system and construct a similar above-grade reservoir and booster pump station to provide the flexibility needed so the existing tanks could be taken out of service for cleaning and repairs. **Our experience on the Treated Water Reservoir Coating Improvement Project provides us with an understanding of your site intricacies, internal processes, and contractual requirements to reduce the time needed at the beginning of your project to focus on anticipating challenges, offering cost-effective solutions.**

PR 9

East Dunne Hillside Water Reservoir and Booster Pump Station | City of Morgan Hill, Morgan Hill, CA

Client Reference
David Gittleson, Project Manager
(408) 310-4642

KJ is developing the design for the East Dunne Booster PS modifications and the East Dunne Hillside Water Reservoir, collaborating with City staff. We coordinated project budgets, subconsultant agreements, and a project initiation plan. Safety protocols were followed during field investigations. We led design reviews and progress coordination meetings with the City. The Project includes design of a steel tank, significant site grading, stormwater facilities, conveyance pipelines, pump station design modifications, and permitting support. We recently completed 90% design and are progressing toward 100% design, EDSC, and construction.

Relevant Staff: Rachel Druffel-Rodriguez, Ray Lyons, Don Barraza, Ed Pascua, Janet Hoffman, Jeff Mohr

Scope Similarities: Above-Ground Steel, Reservoir, Booster Pump Station, Survey, Geotechnical, Hydraulic Analysis, OPCC,
Expedited Project Schedule

Size Similarities:
Reservoir: 850,000 Gallons
Pump Station: 500 GPM
Construction Cost: $7.99M (90% OPCC)

Well 17 and Water Reservoir Design and ESDC |
Linda County Water District, Marysville, CA

Client Reference
Javier Rios, District Engineer
(530) 743-2481

The Linda County Water District is upgrading Well 17 while constructing a 1MG steel storage tank. The project aims to meet daily water demands, maintain quality, enhance reliability, and accommodate future growth. Well 17 will undergo improvements to enhance its functionality and efficiency. These enhancements include an onsite hypochlorite generation system, exterior brine tank, hypochlorite storage tank and chemical metering pumps, vertical turbine well pump, forced draft aeration, pressure filtration with manganese-oxide coating, control building, welded steel backwash water tank, booster PSs, sewer connection, emergency power system, pipeline connections, site piping, grading, paving, and compatible fencing.

Relevant Staff: Ray Lyons, Janet Hoffman, Peter Symonds, Jeff Mohr

Scope Similarities: Above-Ground Steel Reservoir, Booster Pump Station, Piping, Survey, Geotech, Hydraulic Analysis, Grant-Funded, OPCC

Size Similarities:
Reservoir: 1,000,000 Gallons; 60,000 Gallons
Pump Station:
Booster Pump Station 1 - (3) 2,200 GPM Booster Pumps;
Booster Pump Station 2 - (3) 2,200 GPM Booster Pumps, (2) 1,100 GPM Jockey Pumps
Construction Cost: $12.8M

Box Canyon Pump Station |
City of Simi Valley, Simi Valley, CA

Client Reference
Michael Kang, Principal Engineer
(805) 583-6809

KJ upgraded pumps, rehabilitated pump cans, and improved storage tanks and piping for the Box Canyon PS System. The system includes three PSs and five reservoirs. Stations 1, 2, and 3 work together to supply water to various destinations, including the 2.0 MG Box Canyon Tank, the 0.126 MG Lilac Tank, and the 0.162 Thompson Tank. Aging infrastructure requires enhancements, addressing issues like slab cracking, spalling, and corroded pump cans. Seismic concerns mandate replacing both 36,000-gallon bolted steel tanks. Challenges involve maintaining service during construction and working within limited space.

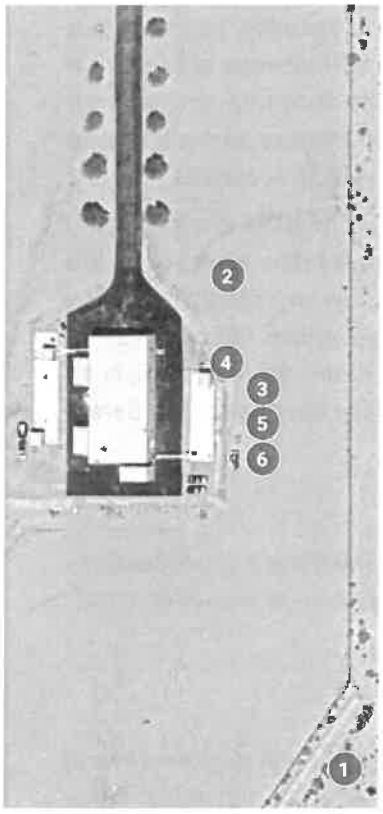
Relevant Staff: Ray Lyons, Anson Chan, Ed Pascua, Janet Hoffman

Scope Similarities: Above-Ground Steel Reservoir, Booster Pump Station, Survey, Geotech, Hydraulic Analysis, OPCC

Size Similarities:
Reservoir: Box Canyon Tank: 2,000,000 Gallons;
Lilac Tank: 126,000 Gallons;
Thompson Tank: 162,000 Gallons;
Bolted Steel Tank A: 36,000 Gallons;
Bolted Steel Tank B: 36,000 Gallons
Pump Station: Station 1: 2,920 GPM;
Station 2: 2,877 GPM;
Station 3: 2,877 GPM
Construction Cost: $12.2M (50% OPCC)

KJ's Proven Experience Collaborating with TPWD to Navigate Your Project's Complexities

TPWD is requesting services for the design of a Redundant Treated Water Reservoir and Booster PS at the FRP to allow the TPWD to take down the existing reservoir at the FRP, as-needed, for repairs and coating work. KJ understands TPWD's needs for the construction of the Redundant Treated Water Reservoir, as we designed the **Treated Water Reservoir Coating Improvement Project**. Additionally, our experience with previous FRP projects, helps us understand the importance of this project. **Our experience with multiple projects at the FRP site enables KJ to have the background to understand key challenges, which are listed below in order if importance, at the FRP that can occur during design and construction.**



Challenge	Approach	Benefit to TPWD
1 Flood Protection To align with existing hydraulics, the tank floor will be situated below the 100-year high water elevation in the FEMA flood zone.	For the FEMA flood zone site, we'll review flood maps, determine the 100-year flood elevation, design a storm and overflow discharge system with check valves, create protective berms, establish an accessible path around the tank (including ramps), and bury stormwater pipes where feasible.	Ensure potable water tank protection from cross-connection with stormwater, safeguard against floods, maintain storm event access, and facilitate ease of operation and maintenance.
2 Site Access And Drainage Berms for flood protection impact site access and drainage, necessitating planning for access roads, swales, and stormwater discharge piping on-site.	Create an accessible path around the tank, including ramps if needed, while burying stormwater pipes and installing check valves to prevent flow into the reservoir site.	Ensure ease of access for tank operation and maintenance.
3 Hydraulics Align existing reservoir and pump station hydraulics to streamline TPWD operations.	Assess the existing reservoir's high water level and floor, align them with the new reservoir through grading and dimension adjustments, and closely match the characteristics of the new pump to the existing one.	Optimize reservoir and pump station operations by leveraging their similar hydraulic characteristics.
4 Power Optimize valve and pump power usage to reduce costs and streamline operations for TPWD.	Align new pump characteristics closely with existing ones for transfer switch compatibility.	Optimize power usage and reduce maintenance costs.
5 Chlorine Contact Tank Ensure adequate chlorine contact time (CCT) due to nearby services.	Calculate required CCT for flow and compatibility with existing tank CCT. Consider using Hypalon or other NSF 61 material as baffles.	Ensure compliance with DDW requirements. Minimize baffle installation costs.
6 Water Quality Address potential stagnant water and water quality issues due to using only one reservoir at a time	Create an operational plan to alternate between draining the unused reservoir and switching reservoir usage periodically.	Minimize water quality issues, consider reducing stagnant water potential. Alternating reservoir usage periodically could offer operational and maintenance benefits.

Approaching Each Challenge Considering TPWD Staff's Time and Expectations

❶ Flood Protection

The existing FRP is located near a FEMA 100-year flood zone, and berms with armored riprap provide protection for various areas within the FRP. KJ will analyze FEMA maps to determine the flood zone boundary and the 100-year high water level. Once these are established, we will assess the necessary protection for the proposed reservoir and pump station. Drawing from existing site protections, berms with armored riprap can safeguard the proposed reservoir and pump station, similar to our design for protecting evaporation ponds #1, 2, and 3 at the FRP site. These berms will also prevent high water from flooding and inundating the proposed overflow outlet, thus avoiding water contamination.

BENEFIT TO TPWD

Protects the potable water tank, prevents contamination, and maintains reservoir access during storms.

❷ Site Access and Drainage

Site access poses a potential challenge due to the above-grade reservoir floor being lower than the entrance road grade and surrounded by berms. The KJ team will assist TPWD in designing and installing a ramp with a maximum 15% slope for accessing the reservoir bottom. Additionally, a minimum 20-foot-wide access road around the reservoir is essential for maintenance and operation. The road should slope away from the reservoir to prevent water accumulation and also away from the berms. A valley gutter will capture storm flow and discharge it outside the site. Barriers at the berm top may be necessary to prevent vehicle accidents.

While the berms protect the reservoir and pump station, they create challenges for stormwater discharge and tank overflow. Stormwater catch basins, accepting tank overflow, should have gravity flow piping installed underneath or through the berm, ideally below the existing access road. If gravity flow isn't feasible, a small stormwater pump station with submersible pumps can remove stormwater and tank overflow. Check valves on storm drain lines prevent backflow. KJ's experience includes designing gravity flow drains for reservoirs, such as Linda County Water District Well No. 17, and small stormwater pump stations, like the one for the Gerald Desmond Bridge Replacement Project at the Port of Long Beach.

BENEFIT TO TPWD

Efficient site access for tank operation and maintenance, even during storms. It minimizes unnecessary power usage for drainage and protects the reservoir from floods. Additionally, check valves safeguard potable water quality while reducing maintenance costs.

❸ Hydraulics

To achieve compatibility with the existing reservoir and pump station hydraulics, KJ will explore several methods. We'll determine the high water elevation and floor elevation of the current reservoir and match those levels by selecting an appropriately dimensioned reservoir. This selection will consider necessary freeboard to account for water sloshing during seismic events. The new reservoir will have a capacity of approximately 200,000 gallons, equivalent to the existing one. CCT flows will mirror those of the current reservoir. Additionally, the new pumps will be sized to match the flow rate of the existing pumps and maintain a similar total dynamic head, depending on the pump inlet location. Piping into and out of the new reservoir will align with the existing reservoir's pipe size, minimizing additional head loss and closely matching the existing hydraulic conditions.

BENEFIT TO TPWD

Ensures smooth operation of the new reservoir and pump station by closely matching their hydraulic characteristics to the existing ones.

❹ Power

KJ aims to minimize electrical equipment needs by using a transfer switch for power transfer between the primary and secondary pump stations. Since only one pump station operates at a time to meet system demands, this approach reduces the requirement for additional power drops, transformers, and coordination with SCE for extra power. While electrical and power conduits remain necessary for pumps, pump control valves, level sensors, pressure sensors, and valve limit switches, the latter will be integrated into TPWD's SCADA system.

BENEFIT TO TPWD

Minimize additional power needs and equipment, reducing overall maintenance costs.

❺ Chlorine Contact Tank

The new reservoir must serve as a chlorine contact tank, similar to the existing reservoir with internal baffles. Given the proximity of services to the distribution system outlet, proper chlorine contact time is crucial. The proposed bolted steel tank will require baffles installation to meet AWWA and DDW requirements. Consider cost-effective options like Hypalon or EPDM baffles suspended from the tank's roof instead of steel baffles. DDW mandates tank testing to verify minimum chlorine contact time and prevent short circuits bypassing the baffles.

BENEFIT TO TPWD

By installing Hypalon or similar NSF 61 material for baffles, the reservoir will benefit from meeting DDW requirements while minimizing the cost of the tank and baffles.

❻ Water Quality

The proposed ground-supported bolted steel reservoir will serve as a secondary reservoir for maintenance when the main buried concrete reservoir is out of service. However, in most cases, both reservoirs may contain water because TPWD plans to operate only one pump station at a time. We recognize the potential for significant water quality issues in reservoirs that store water without regular movement (approximately once a week or less). TPWD has two options: either take down and drain the secondary reservoir, relying solely on the primary reservoir except during primary reservoir maintenance, or establish a schedule alternating between primary and secondary reservoirs and pumps. KJ recommends the second option to minimize potential water quality issues. Pumps and facilities unused for extended periods often incur additional maintenance costs to restore them, including gasket replacement, pump shaft realignment, and oil and lubrication checks.

BENEFIT TO TPWD

Our approach prioritizes equal wear on facilities, reducing costly repairs and minimizing maintenance issues during pump and valve startup after prolonged periods of non-operation. Additionally, it allows simultaneous service on both sets according to the same schedule.

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A QA/QC Process Focused on Thoughtful Evaluation and Timely Communication

KJ's Quality Control (QC) activities are integral to every project and are founded on expectations for professional, thoughtful evaluation and timely communication. We follow established planning, communication, and review procedures and strive for consistent implementation. The entire QA/QC process is tracked through a central online system that allows the QA/QC Manager to discover and resolve discrepancies easily. **The graphic below illustrates KJ's typical engineering designs and related studies QA/QC processes; specific QA/QC processes will be tailored to your project.**

Delivering Continuous Quality Control Throughout the Life of the Project

Establishing the QC Plan begins with upfront planning and communication to verify your needs and expectations, including schedule and budget constraints. We monitor project activities internally through BST, an electronic project set-up application that documents the scope of work, staff assignments, the quality review process, and client requirements and constraints. Our external process includes regular project status meetings to keep you apprised of progress and facilitate project coordination. At the Project Kick-Off Meeting, we review the project, communicate team member assignments, clarify project goals and objectives, create enthusiasm and support for the project, and obtain buy-in from all team members.

Executing the QC Plan starts with a Project Initiation Review (if necessary) to develop approach consensus. Our first quality milestone is a Concept and Criteria Review (C&CR), in which the team presents the developed project concepts and criteria to senior staff not involved in the project and solicits their recommendations for improvements. Scientific and engineering calculations are then double-checked to verify the professional standard of care practices, completeness, and accuracy. The cornerstone of KJ's QC process is the requirement that all major client submittals undergo Milestone Reviews before submission. We prepare submittals for client review on design projects at various stages of project completion, depending on your needs. Review periods are structured around key decision points, allowing you to make informed decisions.

Implementing and maintaining your QA/QC plan will be **Don Barraza (Structural) and Ed Pascua (Mechanical)**. They bring lessons learned and technical expertise serving as nationally recognized structural and mechanical experts, delivering over 80 structural above-ground steel reservoir designs and over 50 booster PS designs. They will review and provide input on technical evaluations and the overall Redundant Treated Water Reservoir and Booster PS project. Our Project Manager, **Rachel Druffel-Rodrigez**, will be responsible for implementing, maintaining, and monitoring the compliance of the QA/QC activities against the project's Quality and Milestone Plan and will make sure planned reviews occur at key milestones. She will work with our Principal Design Engineer, **Ray Lyons**, to draw on our staff's familiarity with TPWD's facilities and above-ground reservoir and booster PS project work, as needed, to provide an independent technical review of work products and project deliverables. This provides timely reviews and valuable comments that enhance the work product. As Principal-In-Charge, **Andy Webster**, will oversee the project and help define and track project goals to ensure your needs are met. Andy will support Rachel to allocate resources as necessary and enforce project quality procedures.

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Scope of Work

KJ will provide professional services for the preliminary and final design of the Redundant Treated Water Reservoir and Booster Pump Station and work closely with TPWD staff. Our work is organized into tasks as described below:

Task 1: Project Management, Meetings, and Quality Control

Task 1.1 – Project Management

KJ will set up the project within our accounting system, prepare sub-consultant agreements, and issue a Project Initiation Plan to our design team, outlining the scope and budget and developing a baseline schedule. KJ will provide management and oversight of in-house project personnel and sub-consultants throughout the project and will review and monitor the project budget and progress regularly. KJ will prepare and submit monthly invoices electronically to TPWD following the Agreement. The project has been budgeted for 10 months of project management during design.

Task 1.2 – Health and Safety Plan

KJ will prepare and implement a Hazard Appraisal & Recognition Plan (HARP) for the work. If a KJ employee needs to visit the site where field investigation activities are ongoing, they will implement the HARP.

Task 1.3 – Kick-off Meeting, Data Review, and Initial Site Visit

KJ four (4) key team members will participate in a two-hour kickoff meeting with the TPWD project team. Before the kickoff meeting, KJ will review data collected during prior TPWD projects and will submit a data request to TPWD for additional required information. Data reviewed will include TPWD utility as-built drawings, current TPWD standard details, and preferences, flow data from the existing reservoir during the summer season that includes Maximum Daily Demand and Peak Hourly Flows, electrical single line diagrams, and PLC panel elevations for potential tie-in points, and pump data and curves for the existing pump station that feeds water from the existing reservoir to the distribution system. KJ will conduct this site visit to gather visual information about site conditions along the proposed reservoir location to assist with establishing design parameters and understanding project constraints. KJ will prepare and submit a meeting agenda and notes following the meeting.

Task 1.4 – Design Review Meetings

KJ will conduct virtual workshop-type meetings with TPWD during the Project to efficiently communicate design concepts and facilitate decisions to keep the project on schedule. KJ will prepare and submit meeting agendas and notes. Each meeting is anticipated to have a duration of 1-hour and will be attended by up to four (4) KJ staff members virtually. The meetings will occur at three (3) milestones: The draft Preliminary Design Review Meeting, the 60% Design Review Meeting, and the 90% Design Review Meeting.

Task 1.5 - Quality Assurance and Quality Control

Each deliverable will receive a quality control review before submission to TPWD from a senior KJ engineer not directly associated with the project so that it is an independent review. Deliverables will be reviewed before submission to TPWD. QA/QC activities are integrated into KJ's project management system from project inception, through execution and final document submission. Specific QA/QC efforts on this project will include an internal Concept and Criteria Review (C&CR) Meeting, a constructability review, and a review of analyses, calculations, memos, and reports, including revisions and responses, by a senior reviewer before each submittal.

Task 1 Deliverables

- Data request
- Monthly invoices (electronic, Adobe Acrobat format)
- Meeting agendas and notes (electronic, Adobe Acrobat format)

Task 2: Investigations

Task 2.1 – Utility Research and Review

KJ will contact Underground Service Alert to determine the utility owners within the project limits and send formal requests to each utility owner requesting record drawings and any future utility plans. KJ will coordinate with the California State Water Resources Control Board to meet utility separation requirements, if applicable. The task will also include KJ requesting and reviewing TPWD as-builts for existing utilities.

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Task 2.2 – Topographic Survey

Cozad & Fox, as a subconsultant to KJ, will provide surveying and mapping services for the project. KJ's Project Engineer and CAD staff will review the survey CAD file. Cozad & Fox's scope includes the following:

- **Research and Review:** Cozad & Fox will research and review available record maps at the County of San Bernardino to establish overall site control.
- **Control Survey and Aerial Targets:** They will perform a field control survey to recover existing control necessary to search for existing boundary corners and control and tie the topographic survey to the project site. Cozad & Fox will also set five (5) aerial targets for the aerial topographic survey.
- **Aerial Topographic Survey:** They will utilize Inland Aerial Surveys, Inc. to perform the aerial topographic survey, including flying and photographing the site, and developing a topographic map for the pipeline alignment. The aerial topographic survey will be 40 scales with 1' contours.
- **Field Survey:** They will perform a field survey to verify the aerial topographic survey. Visible aboveground utility appurtenances, including water valve lids, manholes, utility poles, and vault lids, will be located.
- **Data Reduction:** They will analyze field boundary and control information and compare the information to record data. Cozad & Fox will reduce control and topographic data and develop a topographic map for use in the final design.

Task 2.3 – Geotechnical Exploration

Ninyo & Moore, as a subconsultant to KJ, will perform a geotechnical investigation. KJ's Project Engineer and lead structural engineer will review the geotechnical report. Ninyo & Moore's scope includes the following:

- Review of readily available topographic, geologic, fault, and flood maps, other published literature, stereoscopic aerial photographs, in-house information, and reports and plans provided by TPWD.
- Performing a field reconnaissance to observe site conditions and locate and mark the proposed borings. Underground Service Alert will be contacted a minimum of 72 hours before field activities begin.
- Performing a ReMi (Refraction Microtremor) geophysical survey to obtain data on a seismic site classification. The ReMi field survey would be performed during the geologic field reconnaissance and mark out of the proposed borings.
- Performing a subsurface evaluation to consist of the drilling, logging, and sampling of two borings excavated with truck-mounted drilling equipment to depths of approximately 35 feet (or refusal). Samples will be collected from the borings and will be transported to their laboratory for testing. The exploratory borings will be logged and sampled by a representative from the firm.
- Laboratory testing of representative samples collected from the borings to evaluate pertinent soil characteristics and design parameters.
- Compilation and geotechnical analysis of field and laboratory data.
- Preparation of a geotechnical report presenting our findings, conclusions, and recommendations for construction of the proposed improvements.

Task 2 Deliverables

- Electronic copy (Adobe Acrobat PDF) of the final geotechnical report.
- Submit a potholing plan for TPWD's review and approval. TPWD will perform all potholes.

Task 3: Phase 1 – Preliminary Design

Task 3.1 – Draft Preliminary Design Report (PDR)

KJ will prepare a PDR for the 200,000-gallon redundant treated water reservoir and booster pump station design concept that can be construed as 30% design effort and shall include scaled exhibits and drawings utilizing topographic survey to be generated by Cozad & Fox. The PDR will consist of the following: Site considerations, including review of potential flood plain issues; Location of existing reservoir on the property; Location of other existing facilities on the property; Hydraulic analysis; Location of other proposed potential facilities, including booster pumps; Evaluation of existing booster pump current conditions; New on-site piping configurations; Geotechnical considerations; Civil design considerations; Grading; Construction staging area and access; Protection of existing facilities; Reservoir piping including inlet/outlet, drainage, and overflow; Structural design; Reservoir and pump station telemetry, SCADA & instrumentation; Cathodic protection; Electrical design considerations; PLC panel communication; Reservoir and pump station design considerations including entry/exit, water quality control, ventilation, security, maintenance, operation and other issues; Applicable building codes and consensus standards (ASCE, AWWA, ACI, etc.); Preparation of a Class 4 Opinion of Probable Construction Cost; Design and construction schedule; and Building codes and consensus standards.

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Task 3.2 – Final Preliminary Design Report (PDR)

KJ will prepare the Final PDR based on TPWD's review comments on the Draft PDR. The review comments from TPWD must be provided to KJ as one consolidated set.

Task 3 Deliverables

- Electronic copy (Adobe Acrobat PDF) of the Draft PDR
- Electronic copy (Adobe Acrobat PDF) of the Final PDR

Task 4: Phase 2 – Final Design and Bid Phase

The final Design will be based on the concepts developed in the Final PDR, and major decisions will be finalized during the Final PDR. The budget is based on KJ preparing up to 40 drawings for the Project and 89 Contract Specification Sections (31 front-end specs and 58 technical specs). The anticipated list of drawings can be found on page 17. The anticipated list of Contract Document Specifications can be provided upon request. All CAD files will be developed utilizing 2D AutoCAD format.

Task 4.1 – 60% Design Drawings, Specs, OPCC and Construction Schedule

KJ will develop and submit 60% design documents, including 60% design drawings, 60% design level technical specs, an Opinion of Probable Construction Cost (OPCC) at an AACE Class 3 Level, and a construction schedule. TPWD is to provide the front-end specs (Divisions 0 and 1) and special general provisions. TPWD will provide one consolidated set of written comments on the 60% design submittal. KJ will provide written responses and incorporate these comments into the 90% design submittal.

Task 4.2 – 90% Design Drawings, Specs, OPCC and Construction Schedule

KJ will incorporate TPWD review comments on the 60% design package and prepare the 90% design submittal package. The 90% design phase will include further detailed design and refinement of the project elements developed in the preliminary and 60% design stages of the project. The 90% design documents will include 90% design drawings, 90% design level contract/front end and technical specs, an OPCC at an AACE Class 2 Level, and a construction schedule. TPWD is to provide the front-end specs (Divisions 0 and 1) and special general provisions. KJ will make updates to the summary of work, bid schedule, and measurement and payment front-end specs. TPWD will provide one consolidated set of written comments on the design submittal. KJ will provide written responses and incorporate these comments into the final design submittal.

Task 4.3 – 100% Design Drawings, Specs, OPCC and Construction Schedule

KJ will incorporate TPWD review comments on the 90% design package and prepare the 100% (Final) signed and sealed bid package for TPWD to issue for competitive public bidding. KJ will submit the final stamped and signed Design Drawings and Specs to TPWD for use in bidding.

Task 4.4 – Pre-Bid Meeting

The KJ Project Manager and Principal Engineer will attend the pre-bid meeting, assumed to be at TPWD's office. TPWD will be responsible for leading the meeting.

Task 4.5 – Responses to Questions and Addenda

KJ will respond to questions from potential bidders at TPWD's request. KJ to prepare up to two (2) addenda as necessary and directed by the City. The addenda will be submitted to TPWD for review and distribution.

Task 4.6 – Grant and Funding Support

KJ has an existing as-needed grant contract with TPWD. This proposal is to assist specifically with TPWD's Redundant Treated Water Reservoir and Booster Pump Station Project. KJ will prepare a list of all potentially viable grant and funding opportunities that may apply to the Project and provide a brief description of the grant requirements and funding constraints for those opportunities that are most promising for the Project. A Draft Funding Matrix that includes potentially applicable current and future funding opportunities will be prepared. Funding specifics and constraints will be listed. As applicable, KJ will produce a list of recommended additional studies and actions that TPWD should complete to position for the project competitively. This knowledge can provide a basis for estimating the effort needed to prepare for and competitively position for grants and, ultimately, the probability of winning a grant. Finally, KJ will provide TPWD with a list of items and actions that should be instigated by TPWD once projects and grant pursuits have been selected.

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Task 4 Deliverables

- Electronic copy (Adobe Acrobat PDF) of drawings, technical specs, and construction schedule at 60%, 90%, and 100% design.
- Electronic copy (Adobe Acrobat PDF) of the OPCC at an AACE Class 3 Level at 60% design and the OPCC at an AACE Class 2 Level at 90% and 100% design.
- Responses to questions from potential bidders in the form of up to two (2) addenda.
- Draft Funding Matrix and list of recommended actions for grants and funding.

Assumptions

The following assumptions were developed when preparing the scope, schedule, and estimated cost:

- All pipelines will be installed by open cut; trenchless designs or methods are not required.
- The budget is based on KJ preparing up to 40 drawings, 31 front-end specs, and 58 technical specs). The anticipated list of drawings can be found on page 17. The anticipated list of Contract Document Specifications can be provided upon request. Drawing list assumes a 200,000-gallon above grade bolted steel tank.
- All facilities and connections associated with this preliminary and final design scope are assumed to be on TPWD property.
- KJ's schedule and compensation are based on providing the above services for a period of ten (10) months. If the schedule is extended beyond this period and project management funds are exhausted, a written request will be provided for additional funds.
- A surge analysis, storage analysis and alternatives analysis are not included in the scope.
- It is assumed that all proposed stormwater facilities on the site are located on TPWD property.
- The designing of any relocations for utilities or other facilities are not included.
- Completion of CEQA document updates and/or other environmental permits are not included.
- Assumed existing power supply has physical space and capacity to support the new booster pump station. Utility coordination is not included.
- New booster pump station is assumed to be a slab on grade pad with no cover.
- Welded steel tank and baffling will be fabricator designed items consistent with the deferred submittal provisions of the California Building Code.
- Assumed an optional standby generator is not required for this project.
- Assumed existing communication system has adequate spare I/O to tie in new equipment and instrument I/O to existing SCADA system.
- Assumed existing system has adequate communication capabilities. Radio surveys or other communication upgrades are not included.
- Assumes deep foundations and soil improvement are not required at this site.

Tasks Performed by TPWD

TPWD will perform the following tasks:

- Provide all readily available background documentation for the reservoir, pump station, and pipelines to KJ for review. Provide as-built documentation and record drawings of the existing pipelines for tie-ins, electrical distribution system, and PLC communication panel.
- Provide input and confirm the flowrate(s) for all pump stations.
- Provide operational information such as the maximum and minimum water surface elevations in the existing Treated Water Reservoir, and Maximum Daily Demands and Peak Hourly Demands from the existing reservoir during the summer months.
- Provide the last 12 months of electrical demand data from SCE. The peak demand value should be in kilowatts. If 12 months of utility data is not available, connect a power monitoring unit to the main service entrance equipment and monitor peak demand kilowatts over 30 days with recordings taken at 15-minute intervals to comply with NEC 220.87.
- Prepare and submit reservoir permit applications and any applicable fees; interface with the building department and drinking water department as required.
- Review KJ's submittals within two weeks of receipt and provide a single, consolidated set of comments on each submittal.
- Participate in decision-making and provide a best-faith effort to make key decisions promptly. If work is delayed substantially, regulatory changes, such as building code cycles, will require a modification to this scope to provide for changes in work.
- Manage communications with residents and stakeholders, including any public outreach efforts.
- TPWD will perform all potholes outlined by KJ.
- TPWD is responsible for providing the front-end specs (Divisions 0 and 1).

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Anticipated List of Design Drawings

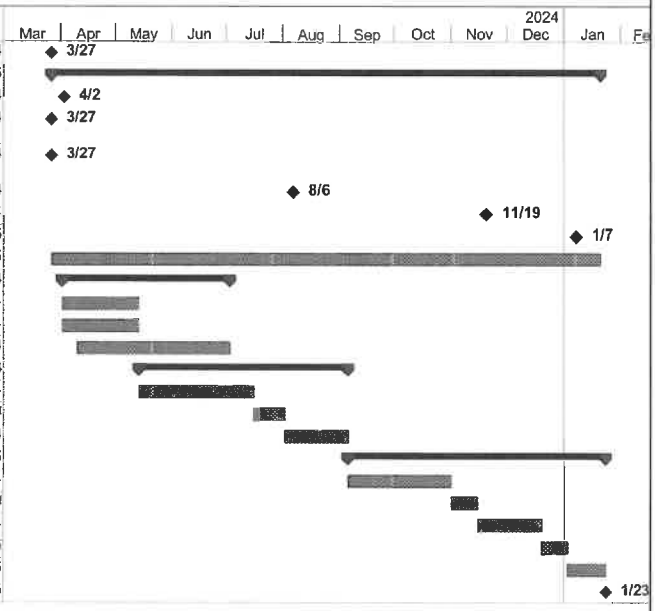
Sheet	Drawing	Drawing Title
General		
1	G-01	General Location & Vicinity Map
2	G-02	Drawing Index
3	G-03	General Abbreviations
4	G-04	General Notes & Legend
Civil		
5	C-01	General Civil Abbreviations & Notes
6	C-02	General Civil Legend
7	C-03	Horizontal Control & Yard Piping Plan
8	C-04	Grading & Paving Plan
9	C-05	Inlet/Outlet Piping Plan & Profile
10	C-06	Civil Details 1
11	C-07	Civil Details 2
Structural		
12	S-01	General Struct. Abbreviations & Notes
13	S-02	Pump Station Plan
14	S-03	Tank Plan
15	S-04	Tank Ringwall Details
16	S-05	Tank Appurtenance Details
17	S-06	Tank Appurtenance Details
Mechanical		
18	M-01	General Mech. Abbreviations & Notes
19	M-02	Pump Station Plan
20	M-03	Pump Station Sections
21	M-04	Mechanical Details 1
22	M-05	Mechanical Details 2

Sheet	Drawing	Drawing Title
Electrical		
23	E-01	Electrical Abbreviations & Notes
24	E-02	Electrical Symbols – 1
25	E-03	Electrical Symbols – 2
26	E-04	Electrical Details
27	E-05	Overall Electrical Site Plan
28	E-06	Electrical Single Line Diagram
29	E-07	Panelboard & Luminaire Schedules
30	E-08	Control Schematic
31	E-09	Conduit Block Diagram
32	E-10	Conduit & Cable Schedule
33	E-11	PS – Equipment Location Plan
34	E-12	PS – Lighting, Receptacle and Grounding Plan
35	E-13	Reservoir Electrical Plan
Instrumentation & Controls		
36	I-01	Instrumentation Legend
37	I-02	Instrumentation Details
38	I-03	Network Architecture Diagram
39	I-04	P&ID – Booster Pump Station
40	I-05	P&ID – Reservoir

Anticipated Project Schedule

Twentynine Palms Water District
Redundant Treated Water Reservoir and Booster Pump Station
Preliminary and Final Design
- Project Schedule -

ID	Task Name	Duration	Start	Finish
1	Notice-to-Proceed	0 days	Wed 3/27/24	Wed 3/27/24
2	**Task 1 - Project Management**	**214 days**	**Wed 3/27/24**	**Mon 1/20/25**
3	Kick-off Meeting	0 days	Tue 4/2/24	Tue 4/2/24
4	Reservoir Storage Analysis TM Review Meeting	0 days	Wed 3/27/24	Wed 3/27/24
5	Reservoir and Booster Pump Station Alternatives Analysis TM Review Meeting	0 days	Wed 3/27/24	Wed 3/27/24
6	Draft PDR Review Meeting	0 days	Tue 8/6/24	Tue 8/6/24
7	60% Design Review Meeting	0 days	Tue 11/19/24	Tue 11/19/24
8	90% Design Review Meeting	0 days	Tue 1/7/25	Tue 1/7/25
9	PM & QA/QC	214 days	Wed 3/27/24	Mon 1/20/25
10	**Task 2 - Investigations**	**66 days**	**Tue 4/2/24**	**Tue 7/2/24**
11	Utility Research & Review	30 days	Tue 4/2/24	Mon 5/13/24
12	Survey	30 days	Tue 4/2/24	Mon 5/13/24
13	Geotechnical Investigation	60 days	Wed 4/10/24	Tue 7/2/24
14	**Task 3 - Preliminary Design**	**83 days**	**Tue 5/14/24**	**Thu 9/5/24**
15	Draft PDR	45 days	Tue 5/14/24	Mon 7/15/24
16	*District Review*	*13 days*	*Tue 7/16/24*	*Thu 8/1/24*
17	Final PDR	25 days	Fri 8/2/24	Thu 9/5/24
18	**Task 4 - Final Design**	**100 days**	**Fri 9/6/24**	**Thu 1/23/25**
19	60% Design	40 days	Fri 9/6/24	Thu 10/31/24
20	*District Review*	*10 days*	*Fri 11/1/24*	*Thu 11/14/24*
21	90% Design	25 days	Fri 11/15/24	Thu 12/19/24
22	*District Review*	*10 days*	*Fri 12/20/24*	*Thu 1/2/25*
23	100% Design	15 days	Fri 1/3/25	Thu 1/23/25
24	Final Design Completion	0 days	Thu 1/23/25	Thu 1/23/25



Date: Sun 2/18/24

Task — Summary — External Milestone
Split — Project Summary — Progress

PR 5 **Many times quality is overlooked. While cost considerations are essential, prioritizing quality ensures long-term benefits and minimizes risks.**

We recognize that our proposed cost may exceed expectations. We want to emphasize that a well-designed and constructed project will meet immediate needs and withstand the test of time. Inferior materials or shortcuts can lead to costly repairs, operational disruptions, and compromised safety. Investing in quality protects the community's water supply, reduces maintenance expenses, and enhances overall reliability.

Classification:	Eng-Sci-6 J. Mohr & I. Inwerla QA/QC & J. Harbour	Eng-Sci-7 P. Simonds, J. Jhaveri, & Civil QA/QCer	Eng-Sci-8 R. Lyons, Elec Eng, I&C Eng, J. Hoffman & L. Everett	Eng-Sci-5 R. Druffel-Rodriguez & C. Ralton	Eng-Sci-4 Struct Eng	Eng-Sci-3 A. Chan	Eng-Sci-4 El&C CAD	Sr. CAD-Tech	Admin. Assist.	Total	KJ Labor	Sub Cozen & Fox, Inc.	Sub Hinyo & Moore	KJ Sub-Markup	KJKJ ODCs	SubKJ ODCs Markup	Sub Total Labor	KJ Total Subs	KJ Total Expenses	KJ Total Labor + Subs + Expenses
Hourly Rate:	$295	$275	$250	$225	$205	$190	$205	$145	$115	Hours	Fees	Fees	Fees	5%	Fees	10%				Fees
Task 1 - Project Management, Meetings and Quality Control																				
1.1 Project Management				80	80					90	$19,350	10		$0		$0	$19,350	$0	$0	$19,350
1.2 Health and Safety Plan		2	2	1	1 1	1				4	$980			$0		$0	$980	$0	$0	$980
1.3 Kick-off Meeting, Date Review and Initial Site Visit			10	10 8	8 12	12 12	12			42	$9,040			$0	$300	$30	$9,040	$0	$330	$9,370
1.4 Design Review Meetings (3)			3	3 3	3 3	3 6	6			15	$3,180			$0		$0	$3,180	$0	$0	$3,180
1.5 QA/QC	80	80	16	16						96	$28,000			$0		$0	$28,000	$0	$0	$28,000
Task 1 - Subtotal	80		18	13	92	16	18	0	0	247	$60,550	$0	$0	$0	$300	$30	$60,550	$0	$330	$60,880
Task 2 - Investigations																				
2.1 Utility Research & Review			8	6		10	10	14	2	32	$5,690		2	$0		$0	$5,690	$0	$0	$5,690
2.2 Topographic Survey			2	2		4	4	4		10	$1,840	$10,989		$549		$0	$1,840	$11,538	$0	$13,378
2.3 Geotechnical Exploration			2	2	3	3 3	3			8	$1,535		$23,600	$1,180		$0	$1,535	$24,780	$0	$26,465
Task 2 - Subtotal	0		0	10	0	3	17	0	18	2	50	$9,185	$10,989	$23,600	$1,729	$0	$0	$9,185	$36,318	$0	$45,503
Task 3 - Phase 1 - Preliminary Design																				
3.1 Draft PDR (including 30% drawings)	0 10	10	3	3 67	67 12	1260	60 2	2 6	6	6	0 190	$43,434	0 0	4	$0	$100	$10	$43,434	$0	$110	$43,544
3.2 Final PDR			12	12	4	4 6	6 10	10	24		56	$10,510			$0	$100	$10	$10,510	$0	$110	$10,620
Task 3 - Subtotal	10		3	99	16	66	12	6	31	4	246	$53,944	$0	$0	$0	$200	$20	$53,944	$0	$220	$54,164
Task 4 - Phase 2 - Final Design & Bid Phase																				
4.1 60% Design Drawings, Specifications and OPCC	20		7	127	1	24	35	58	71	4	346	$73,892			$0	$100	$10	$73,892	$0	$110	$74,002
4.2 90% Design Drawings, Specifications and OPCC	15		5	94	0	24	25	58	71	4	295	$61,464			$0	$100	$10	$61,464	$0	$110	$61,574
4.3 Final Design Drawings, Specifications and OPCC	5		2	33	0	8	8	19	24	2	100	$20,898			$0	$100	$10	$20,898	$0	$110	$21,008
4.4 Pre-bid Meeting				8	8					16	$3,800			$0		$0	$3,800	$0	$0	$3,800
4.5 Responses to Questions and Addenda	2	2		4	4		16	16	2	24	$4,920			$0		$0	$4,920	$0	$0	$4,920
4.6 Grant and Funding Support				25	25					25	$6,250			$0		$0	$6,250	$0	$0	$6,250
Task 4 - Subtotal	42		14	290	9	56	85	134	167	10	807	$171,224	$0	$0	$0	$300	$30	$171,224	$0	$330	$171,554
All Tasks Total	132		35	413	117	141	132	140	216	16	1350	$294,903	$10,989	$23,600	$1,729	$800	$80	$294,903	$36,318	$880	$333,102

PR 6 *Resumes*

Kennedy Jenks

Rachel Druffel-Rodriguez, PE

Project Manager

PROFESSIONAL SUMMARY

Rachel is a licensed civil engineer with experience in civil and process mechanical design for water, wastewater, and recycled water treatment facilities. She has extensive experience in wastewater planning and design, with responsibilities ranging from lead designer and project engineer to project manager and construction manager. She is experienced in hydraulic analyses and modeling, pump/lift station design, pipeline design and alternative alignment evaluations, and site civil and storm water design. She also has advanced skills in Geographic Information Systems (GIS) modeling and mapping and levee and dam failure modeling analysis.

TOTAL YEARS OF EXPERIENCE
10

EDUCATION
BS, Civil and Environmental Engineering, Loyola Marymount University, Los Angeles, 2012

MS, Civil and Environmental Engineering, University of California Los Angeles, Los Angeles, 2014

REGISTRATIONS
Professional Engineer - Civil - California (89191)

MEMBERSHIPS / AFFILIATIONS
American Geophysical Union

American Society of Civil and Engineers

Engineers Without Borders

Environmental and Water Resources Institute

PROJECT EXPERIENCE

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | *Project Manager*

Responsible for managing budget, schedule, and tasks. KJ has been providing professional design services required to update the previously completed designs of the East Dunne Booster Pump Station modifications and the East Dunne Hillside Water Reservoir, working closely with City staff. KJ will provide electronic files of design plans in AutoCAD format and one full-sized set of drawings on mylar.

Treated Water Reservoir Coating Improvement Project, Twentynine Palms Water District, Twentynine Palms, CA | *Project Manager*

Responsible for managing budget, schedule, and tasks. KJ is providing professional engineering services for the Treated Water Reservoir Improvements project. The project consists of coating the interior of the concrete reservoir and removing the steel bracing and base plates by the Seismic Evaluation Report prepared by KJ dated February 2018.

Standard Drawings Update, Twentynine Palms Water District, Twentynine Palms, CA | *Project Manager*

Managed the preparation of standard drawings for approximately 34 water systems.

Wastewater Treatment Plant Rehabilitation Final Design and Construction, Rosamond Community Services District, Rosamond, CA | *Project Manager/Construction Manager/Project Engineer*

Lead engineer on civil, mechanical, and process design. This project includes upgrading and expanding the existing RCSD wastewater treatment facility from 0.5 to 1.27 mgd and adding septage treatment. Evaluated existing plant and rehabilitation of existing Biolac basin and sodium hypochlorite bulk storage and injection system. Prepared the Conceptual Design Report. Performed preliminary and final design of upgrades, including a new septage receiving station, septage holding pond, secondary clarifier, sludge drying beds, a new second Biolac treatment system, and diversion pipeline. Led project team as the project manager, construction manager, and project engineer. Lead engineer on civil, mechanical, and process design.

PR 6

Resumes (Contd.)

Rachel Druffel-Rodriguez, PE

Society of Women Engineers

California Water Environment Association

Advanced Water Purification Facility (AWPF) and Pump Station Project, Monterey One Water, Monterey, CA | *Project Engineer*

The project is an indirect potable reuse project that collects a variety of available source waters for advanced water treatment. The KJ team provided the project's design, construction, and startup services. The 5-mgd AWP Facility treats secondary effluent with ozone, microfiltration, reverse osmosis, and UV-advanced oxidation processes. Tim provided professional engineering services by analyzing alternative project delivery methods for the various project facilities, including PSs, pipelines, diversion structures, AWP Facility, and treatment plant facilities best to meet Monterey One Water's project goals and needs. The analysis recommended a project delivery method for each facility based on schedule, established budget, resource requirements, owner input on design, and potential cost savings.

Expansion of Ray Stoyer Water Reclamation Facility and East Mission Gorge (EMG) Pump Station, Force Main, and Bypass Pipeline Design, Padre Dam Municipal Water District, Santee, CA | *Project Manager*

Performed preliminary design, including the sizing and placement of equipment (including primary and secondary clarifiers, MLE reactors, tertiary treatment, filters, chemical dosing facilities, equalization basin and solids handling facilities). Additionally, prepared CEQA documentation and capital operation and maintenance cost estimates. Generated BioWin models to evaluate the wastewater treatment design process's biological, chemical, and physical aspects. She also performed Alignment Study Reports and Basis of Design Reports. Implemented alignment studies, utility research, and the EMG Force Main and Bypass Line systems design. Performed pipeline design, lift station and wet well design, and chemical facility sizing. Utilized GIS for the generation of maps and to perform studies of the project site.

Lift Station 1 Replacement, Rainbow Municipal Water District, Bonsall, CA | *Civil Engineer*

Assisted in developing the Lift Station 1 (LS1) Replacement project phasing, including planning to install two new lift stations, over 4,000 ft of force main, and over 12,000 ft of new gravity main. Provided review and alternative development to meet the Client's needs and budget. She led the first phase of multi-disciplinary design and developed the civil and mechanical design of the PS, equalization basin, force main, and gravity main. Produced Geographic Information System maps of existing and proposed force mains, gravity lines, lift stations, and manholes. Provided geo-spatial data for design work and red-lined AutoCAD drawings and assisted in the design of the lift stations, pipe alignment, and manhole placement.

Santa Cruz Regional Recycled Water Facilities Planning Study, Santa Cruz Water Department, Santa Cruz, CA | *GIS Support*

KJ developed an SWRCB Grant application for the City, resulting in authorization to fund a Regional Recycled Water Facilities Planning Study (RWFPS). KJ led a multi-disciplinary team to look at various permutations of non-potable and potable reuse opportunities to beneficially reuse wastewater at the Santa Cruz WWTP while helping to bridge the water supply gap for the future. Alternatives analysis focused on regulatory, technical, financial, institutional, and public acceptance issues related to groundwater recharge through direct injection, surface water augmentation at Loch Lomond Reservoir, and direct potable reuse. The analysis outcome recommended a phased approach to achieve the City's sustainable water supply initiatives. In the near term, two small non-potable water projects would provide beneficial reuse for irrigation, truck filling, and at the local university while leaving the door open for larger potable water offset through future local or regional groundwater recharge projects. The RWFPS was submitted to the SWRCB

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Ray Lyons, PE

Principal Design Engineer

PROFESSIONAL SUMMARY

Ray joined KJ after a career as a civil designer/engineer for the Metropolitan Water District of Southern California. Projects at Metropolitan included Eastside Pipeline (9 miles of 144-inch welded steel pipe in Hemet, California), Inland Feeder (44 miles of combined 144-inch welded steel pipe and tunnels between Devil's Canyon and Hemet), the Diamond Valley Reservoir project (an 800,000-acre-foot reservoir including three earth and rock dams), and the Alameda Corridor (relocation of five water pipelines varying in diameter from 42 inches to 78 inches for the installation of a high-speed freight train channel between the Port of Los Angeles and downtown Los Angeles).

Ray previously worked with another consulting engineering firm where he served such clients as the Elsinore Valley Municipal Water District, the City of Riverside, the City of Redlands, the Orange County Sanitation District, and the Irvine Ranch Water District. Projects included water pipelines varying in diameter from 12 inches to 60 inches, using various materials, such as PVC, steel, and ductile iron.

TOTAL YEARS OF EXPERIENCE
31

EDUCATION
BA, Social Ecology, University of California at Irvine, 1990

REGISTRATIONS
Professional Engineer - Civil - California (62157)

MEMBERSHIPS / AFFILIATIONS
American Society of Civil Engineers (ASCE)

American Water Works Association (AWWA)

PROJECT EXPERIENCE

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | *QA/QC*

Provided Q/QC services for professional design services required to update the previously completed designs of the East Dunne Booster Pump Station modifications and the East Dunne Hillside Water Reservoir, working closely with City staff.

Well 17 and Water Reservoir Design and ESDC, Linda County Water District, Marysville, CA | *Civil Engineer*

Responsible for civil and mechanical design. KJ designed a new water supply treatment and storage system at two nearby sites. The first site includes a new well pump installed in an existing well, a pressure filter water treatment system, an aeration system, a backwash tank, a booster pump station, and associated piping, a new building to house the chemical treatment system, a restroom, a control room, and electrical room, and an emergency generator. The second site provides storage for the treated water. It includes a 1.2 MG water storage tank and booster pump station, including an electrical building to house electrical equipment and emergency generators. The project also includes a 16-inch potable water connection, fiber optic communications between the two sites, pavement removal and restoration, and traffic control where the pipeline runs in a city street.

Box Canyon Pump Station, City of Simi Valley, Simi Valley, CA | *Technical Advisor*

Provided technical design support. KJ is designing improvements to the pumping system, including replacing pumps and electrical equipment, rehabilitating existing pump cans, and replacing existing pipelines. Additional redundant pumps are also being added, as well as new standby power.

Treated Water Reservoir Coating Improvement Project, Twentynine Palms Water District, Twentynine Palms, CA | *Technical Advisor*

Provided technical design support. KJ is providing professional engineering services for the Treated Water Reservoir Improvements project. The project consists of coating the interior of the concrete reservoir and removing the steel bracing and base plates by the Seismic Evaluation Report prepared by KJ.

PR 6 *Resumes (Contd.)*

Ray Lyons, PE

Standard Drawings Update, Twentynine Palms Water District, Twentynine Palms, CA | *QA/QC*

Managed the preparation of standard drawings for approximately 34 water systems.

Daily II Reservoir and Pipeline Design, Eastern Municipal Water District, Menifee, CA | *Civil Engineer*

The project includes a 2 MG welded steel tank, 2,000 LF of 12-inch PVC pipeline, and 18,000 CY of excavation and miscellaneous sitework. The preliminary design included a siting study for a 2 MG welded steel reservoir while evaluating potential sites primarily based on operations and geotechnical considerations.

Longfellow Recycled Water Tank, Phase 1, Eastern Municipal Water District, Temecula, CA | *Civil Engineer*

Design services included a 2.1 MG above-ground, welded steel potable water storage tank and associated facilities; demolition of existing 0.2 MG above-ground, welded steel potable water storage tank and associated appurtenances; approximately 2,400 linear feet of a 12-inch diameter steel (CML&C) inlet/outlet water pipeline; siting analysis - evaluating several tank sites to arrive at the most feasible site for construction of the new tank; hydraulic analysis - analysis of the pressure zone using District's model to confirm pressure zone hydraulic grade line, pipeline sizing, tank sizing. The design included evaluating earthen berms around the tank to visually conceal the new tank from neighbors.

Benton Road Recycled Water Reservoir Project, Eastern Municipal Water District, Riverside County, CA | *Civil Engineer*

Responsible for the design of a 2.0 mg above-ground, welded steel recycled water storage tank and approximately 8,000 LF of 24-inch diameter steel (CML&C) inlet/outlet recycled water pipeline. The pipeline connected to the existing recycled water pipeline in Winchester Road, which required jacking and boring in three separate locations along the pipeline instead of open-cut trenching.

Garfield Reservoir Pump Station Replacement, City of South Pasadena, South Pasadena, CA | *Civil Engineer*

Preparation of a Preliminary Design Report and design for two 3.25 MG cast-in-place concrete rectangular partially-buried reservoirs, a 3,000 gpm pump station, and an on-site sodium hypochlorite generation chlorination facility. The project also includes the design of the Public Works Water Distribution Yard with an office/garage/storage building and support facilities, grading, paving, and yard piping. Construction support was also provided to the project.

Vail Lake Transmission Main and Pump Station Construction Support Services, Rancho California Water District, Temecula, CA | *Civil Engineer*

Provided professional engineering and environmental services during the bidding and construction period of the 48-inch diameter Vail Lake Transmission Main and Pump Station. The Vail Lake Transmission Main and Pump Station project extends a raw water conveyance system in western Riverside County from the Valle de Los Caballos recharge basins to Vail Lake. KJ provided engineering and CEQA services to Rancho California Water District in support of this project which improves local water supply reliability and reduces imported water costs. The project includes approximately 14,500 feet of 48-inch transmission main extending easterly through Pauba Canyon and a pump station located in the easterly portion of the existing recharge basins on a site not used for recharge.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Anson Chan, PE, CDT

Hydraulics/Mechanical Engineer

PROFESSIONAL SUMMARY

Anson has five years of experience as a project and design engineer within the municipal water industries. He has provided mechanical and hydraulics design support and pump selection for various projects. In addition, he has been responsible for reviewing contract drawings and specifications, resolving construction and inspection issues, and coordinating with team members for various projects.

TOTAL YEARS OF EXPERIENCE
5

EDUCATION

Associate of Arts, Law, Public Policy, and Society for Transfer, East Los Angeles College, Monterey Park, 2022

Master of Science, Mechanical Engineering, University of California, Los Angeles, 2018

Bachelor of Science, Mechanical Engineering, California State Polytechnic University, Pomona, 2017

REGISTRATIONS

Professional Engineer - Mechanical - California (41702)

Control Documents Technologist (CDT)

PROJECT EXPERIENCE

Box Canyon Pump Station, City of Simi Valley, Simi Valley, CA | *Design Engineer*

Anson led the effort in sizing the pump station and determining the proper location for the temporary water tank. The Box Canyon Pump Station System comprises three pump stations operating in series and five water storage tanks. The three pump stations, Station 1, Station 2, and Station 3, pump in series to both the 2.0 MG Box Canyon Tank, 0.126 MG Lilac Tanks, and 0.162 Thompson Tank. Also, Station 2 and Station 3 have small tanks to supply nearby residents and provide some storage. Previous studies recommended improvements to Stations 1, 2, and 3 due to the age and condition of each site since they have been in service since the 1960s. Problem areas noted included concrete slab cracking and spalling, concrete thrust block cracking and spalling, corroded pump cans, and lack of redundant pumps. In addition, it was recommended to replace both 36,000-gallon bolted steel tanks due to the extent of seismic improvements needed.

Standard Drawings Update, Twentynine Palms Water District, Twentynine Palms, CA | *Project Engineer*

Managed the preparation of standard drawings for approximately 34 water systems.

Meyer Desalination Plant Product Water Pump Station, City of Santa Barbara, Santa Barbara, CA | *Design Engineer*

Anson led the effort for sizing and selecting the surge tank air compressors, assisted with identifying the optimal layout of mechanical equipment, and provided input for rerouting product water piping. He also provided engineering services during construction by reviewing submittals. Throughout this project, he assisted with coordination between the different engineering disciplines involved. KJ was retained to provide engineering services to increase the pumping capacity and expand the operating parameters for the current desalination plant finished water pump station by replacing the existing product water pump station equipment and appurtenances.

Canyon Lake Water Treatment Plant Phase One Improvement, Elsinore Valley Municipal Water District, Lake Elsinore, CA | *Design Engineer*

Anson led the effort in sizing the pumps, piping of the backwash and booster pump systems, and coordinating with pump manufacturers to obtain pump selections. He also provided inputs on modifying piping and valving within the existing filter gallery. Deliverables include contract drawings and specifications. KJ provided engineering services to increase the water treatment

PR 6 *Resumes (Contd.)*

Anson Chan, PE, CDT

Evaluation of Water Importation Concepts for Long-Term Salton Sea Restoration, Salton Sea Management Program, CA | *Design Engineer*

Anson contributed by analyzing the hydraulics of the proposed approaches to size pump stations, piping, and energy recovery turbines. In collaboration with other entities, KJ authored a report presenting the feasibility of three proposed water-importation-based approaches to restore the Salton Sea.

Facility-Wide Water System Improvements Project, San Jose-Santa Clara Regional Wastewater Facility, Santa Clara, CA | *Design Engineer*

Anson contributed to the mechanical design of this project by coordinating with pump manufacturers to obtain pump selections, determining the layout of piping and pumps in a space-limited basement, and identifying the pumps and piping within the facility for demolition. He led the effort in completing the plans and specifications for these works.

Dewatering Building Corrosion Mitigation Project, Temecula Valley Regional Water Reclamation Facility, Eastern Municipal Water District, Riverside Country, CA | *Design Engineer*

Anson contributed to the process mechanical design of this project, which included the selection of screw conveyors, rerouting of process piping, and design of sheet metal appurtenances. He also provided engineering services during construction by reviewing submittals. Throughout this project, he assisted with coordination between the different engineering disciplines involved. KJ identified conditions that contributed to corrosion inside the biosolids dewatering building and was retained to provide engineering services to mitigate corrosion via building improvements.

Injection Well Facilities Phase 4 Groundwater Replenishment Project, Monterey One Water, Monterey, CA | *Design Engineer*

Anson helped size the deep injection well pumps and developed the contract drawing and specifications. The mechanical design for this phase of the Groundwater Replenishment Project consisted of installing two deep injection well pumps and associating piping and appurtenances.

Advanced Water Purification Facility Expansion, Monterey One Water, Monterey, CA | *Design Engineer*

Anson contributed to the mechanical design of the expansion of Monterey One Water's advanced water purification facility. He led the effort to revise the fiber-reinforced piping at the UV reactors and coordinated with strainer manufacturers for new strainer layouts. He identified piping that needed pipe supports for the microfiltration unit.

Sunset Complex Final Design Reservoir, Pasadena Water and Power, Pasadena, CA | *Design Engineer*

Anson led the effort in designing the layout of the well discharge piping, coordinated with other disciplines on pipe routing throughout the plant, and sized sump pumps for various vaults. KJ is preparing an alternatives analysis and preliminary design report to replace the 121-year-old Sunset Reservoir, one of the largest reservoirs in the City's distribution and has a total storage volume of 15 MG. Primary objectives include identifying optimal storage volumes, performing a comprehensive evaluation of various replacement options using an analytical decision tool, and developing a preliminary design of the selected replacement option. The project is currently on budget and schedule.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Andy Webster, PE

Principal-in-Charge

PROFESSIONAL SUMMARY

Andy was the Rancho California Water District's Chief Engineer, Planning and Capital Project Manager, and Civil Engineer for the City of Los Angeles Department of Water and Power. He was responsible for capital facility design, CEQA compliance, construction inspection, and water resources management in this role. Relevant water utility engineering management experience included preparing water supply assessments, facility master planning, urban water management plans, sewer system management plans, implementing the District's engineering facility requirements, and design guidelines for developer-contributed and capital projects. Additional activities included preparing and reviewing Board write-ups and presentations at Board meetings. He was responsible for designing and constructing water capital facilities and planning future District facilities. Additional responsibilities included implementation of groundwater management initiatives, water rights negotiation and litigation, hydraulic modeling of District facilities, and coordination with the San Diego Regional Water Quality Control Board for NPDES permitting, waste discharge permits, participation in the Temecula Valley Wine Country Water Quality Protection Work Group and various basin plan activities. Significant Rancho California Water District projects completed under his direction were miles of potable water pipelines, six pump stations, and thirteen reservoirs, among many others. He was also the design engineer for several projects, most notably as the lead design engineer for the Lower Van Norman Bypass Reservoir Cover. This multi-million-dollar project comprised a 15-acre fixed roof reservoir over the Lower Van Norman Bypass Reservoir.

TOTAL YEARS OF EXPERIENCE
35

EDUCATION
BS, Civil Engineering, California State University, Long Beach, 1988

REGISTRATIONS
Professional Engineer - Civil - California (47963)

MEMBERSHIPS / AFFILIATIONS
American Water Works Association

PROJECT EXPERIENCE

Vail Lake Transmission & Pump Station, Rancho California Water District, Temecula, CA | *Chief Engineer*

Oversaw the design and construction of the Vail Lake Transmission Main & Pump Station Project. This project extended RCWD's raw water conveyance system from the Valle de Los Caballos recharge basins to Vail Lake. The project included 14,500 feet of a 48-inch transmission main, discharge turnouts for groundwater recharge, a 76 cfs capacity pump station, quagga mussel control facilities, and a 5-year revegetation project that was required for construction activities within Temecula Creek.

Water Pipeline & Storage Tanks, Twentynine Palms Water District, Murrieta, CA | *Project Engineer*

Reviewed historical data/tank inspection reports and performed a field assessment (visual inspection) and seismic evaluation of the District's ten water storage tanks to develop a proposed capital improvement program and recommendations for future tank retrofits. KJ evaluated the condition of the District's pipelines, which are 12 inches and greater, and the condition of the District's 10 water storage tanks. The team then determined the remaining useful life of the facilities and the required monitoring and maintenance to maximize the asset's life expectancy.

Project Phoenix Development Support, Twentynine Palms Water District, Murrieta, CA | *Project Engineer*

Provided plan check assistance for the proposed Phoenix Development Project. KJ reviewed the developer's project information and proposed development plans and analyzed the potential impacts to the District's facilities. The analysis also included recommendations for future improvements and a proposed developer agreement. KJ provided engineering assistance for

the proposed Project Phoenix development. KJ will provide as-needed engineering services, which may include identification of the information to be provided by the developer to the District, initiation of the plan check approval process, review of the developer's project information and proposed development plans, including analysis of the impacts on the District's facilities, prepare plan check review comments, as necessary, attend meetings, and other engineering assistance, as needed.

Program Management Services, City of Poway, Poway, CA | *Program Manager*

Program manager of the largest capital improvement program in the history of the City of Poway. Poway's Clearwell Bypass Project, Clearwell Replacement Project, SDCWA Turnout and Flow Control Facility, and Treated Water Facilities Project consisted of the following activities: facility planning and program development, budget tracking, project scheduling, public outreach, risk management review, utility coordination, permitting, CEQA compliance, property acquisition, procurement of design engineering consulting contracts, design submittal reviews, construction bidding reviews and oversight of construction management activities.

Adelanto R3 Extension, Mojave Water Agency, Apple Valley, CA | *Project Engineer*

Prepared the Preliminary Design Report and the plans and specifications for 5,800 feet of pipelines (ranging from 18 inches to 36 inches in diameter), a new Turnout 7 facility, and modifying the existing Turnout 6 facility to add a booster pump unit. Included with this project were the owner's advisory services for developing design standards and details and for construction bidding and bid evaluation.

Groundwater Banking Study, Mojave Water Agency, Apple Valley, CA | *Project Manager*

Evaluated the feasibility of water marketing and groundwater banking programs for MWA. Reports prepared for this study included 1) documented and evaluated MWA's existing and potential water resource facilities, 2) compiled and evaluated water marketing program alternatives, 3) recommended a proposed water marketing program, 4) compiled and evaluated groundwater banking program alternatives, and 5) recommended a proposed groundwater banking program.

Adelanto R3 Pipeline Extension, Mojave Water Agency, Victorville, CA | *Project Engineer*

Prepared the Preliminary Design Report and the plans and specifications for 5,800 feet of pipelines (ranging from 18 inches to 36 inches in diameter), a new Turnout 7 facility, and modifying the existing Turnout 6 facility to add a booster pump unit.

As-Needed Management Services, Elsinore Valley Municipal Water District, Murrieta, CA | *Project Engineer*

Provided services to review the Elsinore Valley Subbasin Groundwater Sustainability Plan Request for Proposals, prepared request for proposals for the Water and Sewer Hydraulic Model Updates, reviewed the SB88 Compliance Work Plan for measurement and reporting requirements for surface water diversions, revised the Plan of Study for the Sedco Hills Septic Tank Conversion Project, and prepared a technical memorandum for the Mills Gravity Pipeline Analysis and Water Supply Evaluation.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Don Barraza, PE

QA/QC (Structural)

PROFESSIONAL SUMMARY

Don is a senior engineer with 37 years of experience serving as a structural designer, project engineer, project manager, and construction resident engineer. In these roles, he provided services for the planning, design, condition assessment, construction, and start-up of wastewater collection, treatment, and discharge facilities, recycled water facilities, and sizeable civil infrastructure projects. In his career, he has worked on more than 18 condition assessments, the structural design of over 70 steel reservoirs, 17 pump stations, and more than 30 water treatment plants, and has served as a senior-level reviewer for over a dozen water treatment plant projects. He also serves as chairman of the AWWA committee on cast-in-place conventionally reinforced concrete water storage tanks.

TOTAL YEARS OF EXPERIENCE
37

EDUCATION
BS, Civil Engineering, University of Wyoming, 1986

REGISTRATIONS
Professional Engineer - Civil - California (45483)

Professional Engineer - Civil - Washington (41090)

Professional Engineer - Civil - Oregon (75021PE)

MEMBERSHIPS / AFFILIATIONS
American Society of Civil Engineers, Member

Structural Engineers Association of California, Member

Applied Technology Council

State of California's Governor's Office of Emergency Services

PROJECT EXPERIENCE

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | *QA/QC*

Don is responsible for reviewing the design of a 0.85 MG welded steel water storage tank with site development, including a steep access road with retaining walls. KJ has been providing professional design services required to update the previously completed designs of the East Dunne Booster Pump Station modifications and the East Dunne Hillside Water Reservoir, working closely with City staff. KJ will provide electronic files of design plans in AutoCAD format and one full-sized set of drawings on mylar.

Seismic Tank System Evaluation, Ventura County Waterworks District No. 9, Simi Valley, CA | *Project Manager*

Condition assessments and seismic evaluation of 43 welded steel tanks. Project included interior and exterior site visits, geotechnical site assessment, seismic evaluations, identification of deficiencies and development of rehabilitations and costs.

Feige Canyon Water Storage Tank Retrofit/Replacement, City of Calistoga, Calistoga, CA | *Project Manager/Principal-In-Charge*

Responsible in Charge for the structural and seismic evaluation of the 1966 era 1.0 MG welded steel tank. Evaluation included identification of structural, seismic and coating deficiencies, identification of repair, strengthening, and replacement alternatives, and determination of the remaining life span and costs for repair or replacement of the welded steel tank. The project included conformance with the State of California Department of Public Health requirements for water storage reservoirs. Following seismic evaluation design of a 1.0 MG welded steel replacement tank. Project received 75% of funding from CalOES, DHS and FEMA.

Domestic Water Storage Tanks, Sonoma State University, Rohnert Park, CA | *Project Manager*

Project Manager and Responsible in Charge for the final design and construction administration services for the replacement of the University's two Pritzker concrete potable water storage tanks totaling 400,000 gallons in storage capacity with three new AWWA D100 welded steel water storage tanks.

PR 6 *Resumes (Contd.)*

Don Barraza, PE

Graham Hill Water Treatment Plant Concrete Tanks Condition Assessment and Structural Evaluation, Santa Cruz Water Department, Santa Cruz, CA | *Structural Responsible-In-Charge*

Structural designer and responsible in charge for the condition assessment and structural and seismic evaluation of five of the City's circular water storage tanks including four prestressed and one conventional concrete tank. Project included review of background documents, code and standard review, site investigations and condition assessments of the interior and exterior of all tanks, structural analysis and evaluation including development of alternatives for repair, strengthening, and replacement of the steel tanks. Development of construction cost estimates and operational and process evaluation and updates for solids residual handling in the water storage tanks. Provided condition assessment and structural and seismic investigation of four (4) prestressed concrete tanks, originally constructed in 1960, and one (1) conventional concrete tank constructed in 1955 prior to seismic rehabilitation and replacement. Provided structural engineering services associated with the condition assessment, evaluation and development of recommendations for the seismic rehabilitation and replacement of the five tanks. Tank capacity varied from 0.3MG to 1.0 MG.

Longfellow Recycled Water Tank and Pipeline, Eastern Municipal Water District, Winchester, CA | *Structural Designer*

Design of a 5 MG above ground, welded steel recycled water storage tank and associated facilities. The project also included approximately 4,500 linear feet of a 30-inch diameter steel (CML&C) inlet/outlet recycled water pipeline in Simpson Road.

Benton Recycled Water Storage Tank and Pipeline, Eastern Municipal Water District, Perris, CA | *QA/QC Manager*

Preliminary and final design of a 2.0 MG recycled water steel tank and approximately 8,500 linear feet of a 24-inch diameter recycled water pipeline.

Reservoir Replacement, Sonoma State University, Rohnert Park, CA | *Project Engineer*

Engineering consulting services for the replacement of two precast concrete 250,000 gallon water storage reservoirs. Project involved preliminary design of a 385,000 gallon welded steel replacement reservoir which eventually was transitioned into final design and construction administration services for three new ground level welded steel water storage tanks, water transmission pipeline replacement, and a new standby diesel engine generator for distribution system pumping.

Construction Administration of the Gypsy Hill and Royce Welded Steel Tanks, North Coast County Water District, Pacifica, CA | *Project Engineer*

Engineering services for the construction administration of the Gypsy Hill and Royce welded steel tanks for water storage. Services provided included construction project administration, review of submittals and RFIs, observation of foundations, tank erection and welding oversight, and protective coating systems design and oversight.

Gypsy Hill and Royce Reservoirs Evaluations and Replacement, North Coast County Water District, Pacifica, CA | *Project Manager/Principal-In-Charge/Structural Designer*

Engineering services for the design of welded steel tanks for the Gypsy Hill and Royce Reservoir. Services provided for project phases included project management, preliminary design, construction documents including engineering and CAD design, corrosion protection evaluation, cost estimate, and bidding and initial construction support.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Ed Pascua, PE, LEED AP

QA/QC (Mechanical)

PROFESSIONAL SUMMARY

Ed has 23 years of experience as a mechanical engineer focusing on pump station design and construction of water treatment projects. He has been responsible for mechanical predesign reports, mechanical designs, pump selection, pump station condition assessments, and energy optimization for pump stations related to the municipal water industry. He is a Hydraulic Institute (HI) committee member, actively participating and contributing to HI standards and guidebooks: Pump Intake Design, Pump Piping, NPSH, and the Water and Wastewater Pump Applications Guidebooks. He is versed in mechanical pumping systems, steady-state and surge analyses, and treatment unit processes, with responsibilities from design through construction.

TOTAL YEARS OF EXPERIENCE
23

EDUCATION
BS, Mechanical Engineering, University of Notre Dame, 1994

MBA, Management, University of Hawaii at Manoa, 1996

REGISTRATIONS
Professional Engineer - Mechanical - California (32213)

Professional Engineer - New Mexico (24480)

Professional Engineer - Mechanical - Arizona (61527)

Professional Engineer - Utah (7100270-2202)

Professional Engineer - Mechanical - Washington (56969)

Professional Engineer - Nevada (018741)

MEMBERSHIPS / AFFILIATIONS

PROJECT EXPERIENCE

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | *QA/QC*

Ed is providing QA/QC of the mechanical design. KJ has been providing professional design services required to update the previously completed designs of the East Dunne Booster Pump Station modifications and the East Dunne Hillside Water Reservoir, working closely with City staff. KJ will provide electronic files of design plans in AutoCAD format and one full-sized set of drawings on mylar.

Box Canyon Pump Station, City of Simi Valley, Simi Valley, CA | *Project Manager*

Managing the design for the upgrade of two existing pump stations and the decommissioning of a third pump station for the transmission of over 4 MGD of potable water from the Owner's Calleguas turnout to feed the Box Canyon service area. The project includs an alternative study for decommissioning the furthest downstream pump station and realigning a 12-inch transmission main. Pump station improvements includ full pump and piping replacement, a new on-site generator, a 36,000-gallon steel storage tank replacement, and associated electrical and instrumentation equipment.

Cabrillo Reservoir Replacement, City of Beverly Hills, Beverly Hills, CA | *Lead Pump Station Designer*

KJ is providing design and engineering support during construction for two 2.15 MG prestressed concrete reservoirs; one 1,650 gpm booster pump station; one 150-gpm local service pump station; and miscellaneous related facilities, including reservoir mixers, analyzers,and disinfection. Ed is foreseeing the detailed design of the pump stations, piping, disinfection, and related features.

Lindero Pump Station Improvements, Calleguas Municipal Water District, Thousand Oaks, CA | *Quality Reviewer*

Responsible for the mechanical design review for a major upgrade to Calleguas Municipal Water District's Lindero Pump Station. Preliminary design efforts on the project include a seismic evaluation of the pump station building and surge tanks, a hydraulic evaluation to determine pumping capacity and pump configuration, and an evaluation of standby power

PR 6 *Resumes (Contd.)*

Ed Pascua, PE, LEED AP

American Society of Mechanical Engineers

alternatives. The final design will include replacing electrical and mechanical equipment and various structural and architectural improvements.

Lake Bard Pump Station Design, Calleguas Municipal Water District, Thousand Oaks, CA | *Lead Mechanical Engineer*

Provided quality review for the preliminary design and currently leading the mechanical detailed design of a 65-mgd pump station utilizing four 300-hp vertical turbine pumps utilized to deliver surface water from Lake Bard to the water filtration plant. The project included a tie into an existing 84-in steel pipe suction line and a 60-in steel pipe discharge line. A new 60-in magnetic meter and meter vault, surge analysis and mitigation, and related valving and piping were also part of the project scope.

Blossom Valley Reservoir Replacement Project, Padre Dam Municipal Water District, San Diego, CA | *Mechanical / QA/QC*

Ed is providing QA/QC and acting as technical advisor of the mechanical design.KJ provided services for demolishing and replacing the existing Blossom Valley Reservoir, a 7.9 MG hopper bottom concrete-lined reservoir built in 1962, with a new reservoir. The project includes reviewing and analyzing previous studies and alternatives to recommend the appropriate reservoir capacity, type, and optimal site layout. Scope includes preparation of construction documents for the new reservoir and bidding support.

Canyon Lake Water Treatment Plant Phase 1 Improvements, Elsinore Valley Municipal Water District, Lake Elsinore, CA | *Mechanical Engineer*

Ed acted as technical advisor for hydraulics and pumping expertise for the final design of the Phase 1 Improvements at the existing Canyon Lake Water Treatment Plant. The project included improvements to restore the plant to 7MGD. It included the replacement of the existing intake pump station, rapid mix/up-flow clarifier with a new intake pump system, mixing system, flocculation/sedimentation basin, a multi-barrier approach to PFAS and Taste and Odor treatment, booster, and backwash pumping systems, and a new centralized chemical storage and handling facility housing seven treatment chemicals.

Peck Reservoir and Pump Station, City of Manhattan Beach, Manhattan Beach, CA | *Mechanical Engineer*

Responsible for the mechanical design components for a new 8 MG cast-in-place concrete reservoir, an 8.6 mgd pumping station, and new site amenities for the City of Manhattan Beach. This new facility will receive water from City-owned potable water wells and the Metropolitan Water District of Southern California.

East Mission Gorge (EMG) Pump Station, Force Main, and Bypass Pipeline Design, Padre Dam Municipal Water District, Santee, CA | *Mechanical Engineer*

KJ provided preliminary design and program management services for the East County Advanced Water Purification Program, which seeks to treat up to 15.5 MGD of wastewater for indirect potable reuse. Ed was responsible for the preliminary design of the modified East Mission Gorge and Influent Pump Stations, which, in tandem, were designed to convey up to 22 MGD of wastewater to the plant. Ed also conducted mechanical QC reviews of the AWP treatment facility.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Lauren Everett

Grant/Funding

PROFESSIONAL SUMMARY

Lauren has 21 years of water supply and demand management planning, integrated water resource planning, grant writing, grant administration, and project management experience in Southern California. She has a solid working knowledge of local, state, and federal laws about the management of water resources, including Urban Water Management Plan analyses and updates; specialized focus and demonstrated success in the implementation of the Department of Water Resources (DWR's) Proposition 84 IRWM Grant Program, writing successful grant applications, and associated IRWM plan development.

TOTAL YEARS OF EXPERIENCE
21

EDUCATION
BS, Environmental Studies, University of California, Santa Barbara, 1999

MS, Environmental Science and Management, University of California, Santa Barbara, 2001

PROJECT EXPERIENCE

Treated Water Reservoir Coating Improvement Project, Twentynine Palms Water District, Twentynine Palms, CA | *Grant/Funding*

KJ is providing professional engineering services for the Treated Water Reservoir Improvements project. The project consists of coating the interior of the concrete reservoir and removing the steel bracing and base plates by the Seismic Evaluation Report prepared by KJ dated February 2018.

Prop 1 Integrated Regional Water Management Grant Application, Santa Clarita Valley Water Agency, Santa Clarita, CA | *Project Manager*

KJ prepared a highly technical Proposition 1 Integrated Regional Water Management (IRWM) Round 1 Implementation Grant for the Agency that successfully awarded over $10 million to fund the continued implementation of the Upper Santa Clara River IRWM Plan and five important water resource projects in the Santa Clarita Valley. Jennifer managed the region's Proposition 1 grant application and was successfully awarded over $10M for projects in the Santa Clarita Valley, including $3M for LACSD.

Grant Assistance WCVC Forms, United Water Conservation District, Oxnard, CA | *Project Manager*

Managed the successful grant application and was awarded $300,000.

Integrated Regional Water Management Colorado Grant Assistance, Mojave Water Agency, OXNARD, CA | *Grant Administrator*

Managed the region's Prop 1 grant application that requested $7.8M for projects in the Mojave IRWM Region.

Grant Administration Services, San Gabriel Valley Municipal Water District, Azusa, CA | *Grant Administrator*

Managed the successful grant application and was awarded $300,000. Currently assisting in the administration of the grant funds.

PR 6 *Resumes (Contd.)*

Lauren Everett

Grant Assistance Services, San Gabriel Valley Municipal Water District, Pasadena, CA | *Grant Administrator*

Managed the successful grant application, awarded $100,000, and administrated the grant funds.

Proposition 84 Integrated Regional Water Management Drought Grant Administration, Santa Clarita Valley Water Agency, Santa Clarita, CA | *Grant Administrator*

Managed a successful grant application that was awarded $416,106 for the development of a Groundwater Sustainability Plan.

Proposition 84 Round 2 Planning Grant, Santa Clarita Valley Water Agency, Santa Clarita, CA | *Grant Administrator*

Managed successful grant application and was awarded $734,000. Assisted in the administration of the grant funds for the Agency.

Proposition 84 Round 2 Implementation Grant Administration, Santa Clarita Valley Water Agency, Santa Clarita, CA | *Grant Administrator*

Managed successful grant application and was awarded $7,006,481. Currently assisting in the administration of the grant funds.

Integrated Regional Water Management Plan and Planning Grant Application Preparation and Administration, Western Municipal Water District, Riverside, CA | *Urban/Regional Planner*

WMWD completed an IRWMP in October 2006. Since then, there have been many developments related to regional water planning that necessitated an update to the IRWMP. The update to the IRWMP took into consideration relevant sections of Proposition 50, Proposition 84, and IRWMP principles and criteria for integrated water management planning as outlined in the then current IRWMP Guidelines. One of the goals of the update was to revise the IRWMP to be consistent with potential revisions to the Guidelines following the passage of Proposition 84.

Antelope Valley Integrated Regional Water Management Plan & Proposition 50 Implementation Grant Application, Los Angeles County, Department of Public Works, Alhambra, CA | *Project Manager*

On behalf of the Antelope Valley Region Integrated Regional Water Management Plan, Kennedy Jenks submitted a proposal for an implementation grant that details the region's planning objectives along with seven projects that would help meet these objectives, all targeted at reducing the mismatch between supply and demand projected for the Region by 2035. Responsible for managing the preparation of Step 1 and Step 2 Implementation Grant Applications under Proposition 50 Chapter 8 Round 2 Integrated Regional Water Management Program. The Proposal included seven projects that were selected for implementation by the stakeholders requesting a total of $25 million.

2020 Urban Water Management Plan Update, Twentynine Palms Water District, Twentynine Palms, CA | *Project Manager*

Managed the update of the regional Urban Water Management Plan in conformance with DWR Guidelines.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Janet Hoffman, PE, CEP

Cost Estimating

PROFESSIONAL SUMMARY

Janet is a mechanical engineer and Certified Estimating Professional (CEP) with experience in the design and construction of public, industrial, and institutional facilities. She regularly provides detailed construction cost estimates at the planning level, conceptual, preliminary, interim, and final design levels design for municipal and industrial wastewater, stormwater, and railroad fueling projects. She can provide a clear Basis of Estimate reports and assessments and include the appropriate level of detail for allowances and contingency factors at differing design levels. Janet also has extensive experience in the construction industry, leading mechanical work on various building, process, and industrial projects. Her construction experience includes preparing bids, scheduling, budgeting, and cost forecasting, piping layouts, coordinating subcontractors, preparing submittals and O&M manuals, negotiating change orders and disputes, and starting up and commissioning systems using both the traditional design-bid-build and GC/CM contracting methods. She has the unique perspective of having experience working both on the contractor's side and as the engineer.

TOTAL YEARS OF EXPERIENCE
28

EDUCATION
BS, Mechanical Engineering, University of Southern California, 1994

REGISTRATIONS
Professional Engineer - Mechanical - Washington (36133)

CERTIFICATIONS
AACE International / Certified Estimating Professional (CEP), AACE International (257340)

MEMBERSHIPS / AFFILIATIONS
Association for the Advancement of Cost Engineering International, Member

PROJECT EXPERIENCE

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | *Cost Estimator*

Janet provided cost-estimating services for the East Dunne Hillside Water Reservoir and Booster Pump Station Project. KJ has been providing professional design services required to update the previously completed designs of the East Dunne Booster Pump Station modifications and the East Dunne Hillside Water Reservoir, working closely with City staff. KJ will provide electronic files of design plans in AutoCAD format and one full-sized set of drawings on mylar.

Well 17 and Water Reservoir Design and ESDC, Linda County Water District, Marysville, CA | *Cost Estimator*

Prepared engineer's probable cost estimates for a new water supply treatment and storage system at two nearby sites. The first site includes a new well pump installed in an existing well, a pressure filter water treatment system, an aeration system, and backwash tank, a booster pump station and associated piping, a new building to house the chemical treatment system, a restroom, a control room, and electrical room, and an emergency generator. The second site provides storage for the treated water. It includes a 1.2 MG water storage tank and booster pump station, including an electrical building to house electrical equipment and emergency generators. The project also includes a 16-inch potable water connection, fiber optic communications between the two sites, pavement removal and restoration, and traffic control where the pipeline runs in a city street.

Box Canyon Pump Station, City of Simi Valley, Simi Valley, CA | *Cost Estimator*

Prepared cost estimates for three separate pump stations, five storage tanks, and related piping. KJ is designing improvements to the pumping system, including replacing pumps and electrical equipment, rehabilitating existing pump cans, and replacing existing pipelines. Additional redundant pumps are also being added, as well as new standby power.

PR 6 *Resumes (Contd.)*

Janet Hoffman, PE, CEP

Treated Water Reservoir Coating Improvement Project, Twentynine Palms Water District, Twentynine Palms, CA | *Project Manager*

Janet provided cost-estimating services for the treater water reservoir coating improvement project. KJ is providing professional engineering services for the Treated Water Reservoir Improvements project. The project consists of coating the interior of the concrete reservoir and removing the steel bracing and base plates by the Seismic Evaluation Report prepared by KJ dated February 2018.

Phase 2B Recycled Water Tanks, Santa Clarita Valley Water Agency, Santa Clarita, CA | *Cost Estimator*

Prepare cost estimates for a pair of new welded steel water storage tanks.

La Vista Tank and Booster Pump Station Design, Carmichael Water District, Carmichael, CA | *Cost Estimator*

Prepared engineer's estimate of probable cost for replacement of 3 MG welded steel storage tank, vertical turbine booster pump station in a new CMU building, and well rehabilitation project and preliminary, interim, and final design.

Pioneer Water Tank Rehabilitation, Phase III, Amador Water Agency, Pioneer, CA | *Cost Estimator*

Prepared cost estimate for the project, which included (2) 1 MG welded steel water storage reservoirs and water main piping.

Recycled Water Tank Final Design for Recycled Water Vista Canyon Project, Santa Clarita Valley Water Agency, Santa Clarita, CA | *Cost Estimator*

Prepared cost estimates for constructing two 0.5 MG steel water storage tanks, associated site work, overflow basin, inlet and outlet piping, driveway, fencing, electrical, and control.

Stockton Reservoir Final Design, County of Ventura, Irvine, CA | *Cost Estimator*

Provided cost estimating services for the 1.14 MG Welded Steel Reservoir Project design.

Cabrillo Reservoir Replacement, City of Beverly Hills, Beverly Hills, CA | *Cost Engineer/Estimator*

KJ provides design and engineering support during the Cabrillo Reservoir Replacement Project construction. The project consists of two prestressed concrete reservoirs (each 2.15 MG for a total emergency storage capacity of 4.3 MG); a 1,650 gpm pump station; Long-term site dewatering wells, drainage vault with pump, and connections to a City storm drain; and a Reservoir Management System (RMS) to maintain the optimal chloramination residual, consisting of reservoir mixers, on-line analyzers, and disinfection chemicals.

Lindero Pump Station, Calleguas Municipal Water District, Westlake Village, CA | *Cost Estimator*

Prepared cost estimates for the rehabilitation of a 50 cfs pump station. Preliminary design efforts on the project include a seismic evaluation of the pump station building and surge tanks, a hydraulic evaluation to determine pumping capacity and pump configuration, and an evaluation of standby power alternatives. The final design will include the replacement of electrical and mechanical equipment and various structural and architectural improvements.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Thien Ng, PE

Constructability

PROFESSIONAL SUMMARY

Thien is a licensed civil and chemical professional engineer with 34 years of experience in managing public works infrastructure related to water and wastewater enterprises. He has managed major programs and projects in both the private and public sectors for water infrastructure planning, design, construction, constructability review, and operation.

TOTAL YEARS OF EXPERIENCE
34

EDUCATION
BS, Chemical Engineering, University of California, Berkeley, 1990

REGISTRATIONS
Professional Engineer - Civil - California (73390)

Professional Engineer - Chemical - California (5034)

CERTIFICATIONS
Confined Space Entry,

30-Hour Construction Safety and Health,

PROJECT EXPERIENCE

Construction Management & Inspection for Clearwell Bypass, City of Poway, Poway, CA | *Construction Manager*

The project included the expansion of water treatment capacity from 12 mg to 24 mg. Responsibilities included overseeing daily construction activities, preparing San Diego Air Pollution Control District permit applications, reviewing construction schedules and updates, conducting weekly construction progress meetings, reviewing certified payment, negotiating and preparing final change orders documentation, reviewing shop drawings and O&M manuals, prepared RFI responses, led project start-up effort, review of as-built drawings, and warranties.

High Desert Water Bank Program Management Services, Antelope Valley-East Kern Water Agency, Palmdale, CA | *Construction Manager*

As construction manager for the AVEK's $180M groundwater bank in partnership with Metropolitan Water District (Metropolitan). The project aims to store up to 280,000 AF of Metropolitan's SWP water supply with water recovery of up to 70,000 AFY over four consecutive years. The project is located on a 1,500-acre site in unincorporated Los Angeles County, adjacent to the East Branch of the California Aqueduct. The project will include:

- Aqueduct turnout/turn-in facility
- Control building
- Approx. 2.3 miles of water recharge pipeline
- Approx. 1 mile of concrete canal ditch
- Approx. 8 recharge turnout facilities
- Approx. 27 recharge wells
- Approx. 600 acres of recharge basins

Public Works Department, Utility Enterprise, City of Oxnard, Oxnard, CA | *Assistant Public Works Director*

As Assistant Public Works Director, Thien managed the City's water, wastewater, recycled water, stormwater, and solid waste divisions and a $200 million annual operations budget. During his tenure with the City, Thien also served as Senior Civil Engineer, where he managed the design, construction, start-up, and operation of public works utility capital improvements over $200 million. Projects included major improvements and modifications to the City's wastewater treatment plant, Advanced Water Purification Facility, recycled water transmission pipeline, water blending facilities, and water transmission pipeline.

PR 6 *Resumes (Contd.)*

Thien Ng, PE

Water Blending Facilities and Water Transmission Pipeline, City of Oxnard, Oxnard, CA | *Program Manager and Construction Manager*

Constructed two 12.5 MGD and 5 MGD water blending facilities and 4 miles of 36-inch water transmission pipeline. Responsibilities included in-house constructability and operability reviews, coordinating the City's plan check review, overseeing daily construction activities, reviewing the construction schedule and updates, conducting weekly construction progress meetings, preparing monthly progress payment reports, negotiating, and preparing final change order documentation, leading project start-up effort, review of as-built drawings, warranties, and final acceptance.

Blending Station #1 ADA/Energy Efficiency Improvements Project, City of Oxnard, Oxnard, CA | *Construction Manager*

Provided constructability reviews, coordinated City plan check review, oversaw daily construction activities, reviewed the construction schedule and updates, conducted weekly construction progress meetings, prepared monthly progress payment reports, negotiated and prepared final change order documentation, prepared RFI responses, led project start-up effort, reviewed as-built drawings, and warranties.

Lester J. Berglund Water Treatment Plant Phase 1 Upgrade and Expansion Project, City of Poway, Poway, CA | *Project Manager*

The project included the expansion of the water treatment capacity from 12 MGD to 24 MGD. Responsibilities included: overseeing daily construction activities, preparing San Diego Air Pollution Control District (APCD) permit applications, reviewing construction schedules and updates, conducting weekly construction progress meetings, review of certified payments, negotiated and preparing final change orders documentation, review of shop drawings and O&M manuals,

Advanced Water Purification Facility and Recycled Water Transmission Pipeline Project, City of Oxnard, CA | *Construction Manager/QA/QC*

Constructed a 6.25 mgd recycled water treatment plant and 10 miles of 36-inch recycled water transmission pipeline. Responsibilities included facilitating a third-party constructability review, coordinating the City's plan check review, overseeing daily construction activities, reviewing the construction schedule and up-dates, conducting weekly construction progress meetings, preparing monthly progress payment reports, negotiating and preparing final change orders, leading project start-up effort, review of as-built drawings, warranties, final acceptance, and City Council project completion presentation.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Peter Symonds, PE, Assoc DBIA, CDT

Structural

PROFESSIONAL SUMMARY

Peter is a civil engineer whose primary area of experience is in structural analysis and design of buildings and tank structures in earthquake regions. His experience includes analyzing, designing, and rehabilitating water-containing structures subjected to static and hydrodynamic loads, notably from earthquakes. His experience also includes steel, concrete, wood, and concrete masonry, composite building, and non-building structure design for single and multistory buildings. He has performed detailed modeling of complicated structures for tanks and buildings, including nonlinear time-history analysis of structures under earthquake loading. He has studied constitutive modeling of systems, finite element analysis, fracture mechanics, and performance-based design of concrete and steel structural systems. He manages the technical design disciplines that provide design support for large interdisciplinary projects. He has written several of the guide specifications used by KJ and manages the technical development program for the structural group.

TOTAL YEARS OF EXPERIENCE
19

EDUCATION
BS, Civil Engineering, University of California, Berkeley, 2003

MS, Civil Engineering, University of California, Davis, 2004

REGISTRATIONS
Professional Engineer - Civil - California (70891)

Professional Engineer - Missouri (2019013452)

Professional Engineer - Civil - Oregon (85661PE)

Professional Engineer - Civil - South Dakota (12130)

Professional Engineer - Civil - Texas (117574)

PROJECT EXPERIENCE

Well 17 and Water Reservoir Design and ESDC, Linda County Water District, Marysville, CA | *Structural*

Structural lead for the improvements of the existing well site and new supporting 1-million-gallon water storage tank site included layout, grading and drainage, gravity utility layout, and stormwater treatment compliance. Minimum finished floor elevations were based on FEMA flood maps for conformance. The new storage tank was a partially buried prestressed concrete reservoir. Grading of the storage tank site coordinated existing development and a future master plan adjacent to the site. This coordination included survey control discrepancies, which were successfully mitigated before construction.

Treated Water Reservoir Coating Improvement Project, Twentynine Palms Water District, Twentynine Palms, CA | *QA/QC*

Peter provided QA/QC for the coating and structural improvements of the reservoir. KJ is providing professional engineering services for the Treated Water Reservoir Improvements project. The project consists of coating the interior of the concrete reservoir and removing the steel bracing and base plates by the Seismic Evaluation Report prepared by KJ dated February 2018.

Well 59 Wellhead Treatment Facility, Eastern Municipal Water District, Perris, CA | *Structural Designer*

Provided structural design for wellhead treatment system including 2 GAC vessels and space for 2 additional vessels, and a bolted steel backwash tank. Led structural design and Engineering Services during construction.

Aerator Tank and Recycled Water Tank Evaluation, City of Simi Valley, Simi Valley, CA | *Structural Designer*

KJ evaluated the existing Aerator Tank. The tank receives groundwater from local wells and functions to: 1) provide surge buffering for downstream transfer pumps, and 2) remove hydrogen sulfide through passive aeration prior to delivery of the water for agricultural use. As a

PR 6 *Resumes (Contd.)*

Peter Symonds, PE, Assoc DBIA, CDT

Professional Engineer - Civil - Nevada (021382)

Professional Engineer - Civil - Washington (44457)

CERTIFICATIONS

Construction Documents Technologist, Construction Specifications Institute

Design-Build Professional, Design-Build Institute of America

MEMBERSHIPS / AFFILIATIONS

Structural Engineers Association of Northern California, Member

byproduct of the aeration, the tank also oxidizes some of the dissolved iron (Fe) and manganese (Mn) that are naturally present in the groundwater. KJ prepared design documents for replacement of the existing tank in kind on the same footprint. Since the existing tank was not founded on a concrete foundation, a new foundation for the tank and roof structure was designed and constructed for this project. The aerator tank layout included two rings of steel tank and a third ring of mesh. The roof structure is supported from steel framing extending up and adjacent to the steel tank on the interior and founded on concrete foundations beneath the floor shell. KJ provided engineering design services to the City for the Lower McCoy Recycled Water Storage Tank. Scope included evaluating tank volumes to maximize use of the available site which required design of a crib wall around a third of the tank. A new recycled water pipeline was designed with separate inlet/outlet connections and a new potable water pipeline with proper air gap was included to act as a back-up source. Exterior stairs and landing platforms were also provided around the tank for access from the ground to the roof.

Master Plan, City of Burbank Water & Power, Burbank, CA | *Structural Designer*

A comprehensive seismic, structural, corrosion and safety assessment of 22 flat bottom steel tanks (18 potable water and four recycled water), size ranging from 0.2 MG to 10 MG, was performed on 14 different sites for the City of Burbank Water & Power. The assessment included observation and inspection to record damage and documented deficiencies and developed recommendations for the seismic rehabilitation of the tanks. Provided structural design assistance for review of tanks.

San Francisco International Airport Design-Build Improvements to Mel Leong Industrial and Sanitary Waste Treatment Plants, Shimmick Construction Company, Inc., Millbrae, CA | *Structural*

As a part of a design-build team, directed and provided design of new dissolved air filtration and tertiary treatment facilities, including a masonry building for chemical storage and electrical facilities, two pre-engineered metal canopies and a pre-engineered structure for a control building. Provided design for a chlorine contact basin, two subgrade pump stations and the retrofit of four existing steel tanks on the site. Provided rehabilitation recommendations for an existing pre-engineered metal building.

Christen Hill Reservoir Replacement, North Coast County Water District, Pacifica, CA | *Structural Designer*

Provided structural design and civil coordination services for a 3.9 million gallon welded steel tank, replacing the existing tank. Designed tank, appurtenances and footings to resist high ground motions and nearby offsets from the two San Andreas fault traces located on alternate sides of the site. Provided client with alternative design to allow future expansion for hilltop site, while eliminating regulatory hurdles for the current project.

Terminal Reservoir and Pump Station Design, City of The Dalles, The Dalles, OR | *Structural Designer*

Provided structural design for new reinforced concrete masonry and steel roof pump station, and reinforced concrete foundation for new 2.0 million gallon welded steel water storage reservoir. Designed a structural steel electrical equipment shelter at the welded steel reservoir site. Provided design in a short time frame to meet federal funding deadlines.

PR 6 *Resumes (Contd.)*

Kennedy Jenks

Jeff Mohr, PE, CEM

E/I&C

PROFESSIONAL SUMMARY

Jeff has 25 years of experience in the design and construction administration of power, control, and instrumentation systems for various water projects. His designs have included low- and medium-voltage power generation and distribution systems, variable frequency drives, indoor and outdoor lighting, solid state power system monitoring and protection, hardwired relay, programmable logic controller (PLC) control systems, and various data acquisition and other instrumentation systems. Jeff has managed several large electrical generator installation projects and equipment replacements on existing facilities while maintaining continuous operation during construction, improving electrical safety, and optimizing existing facilities to save construction costs.

TOTAL YEARS OF EXPERIENCE
25

EDUCATION
BS, Electrical Engineering, California Polytechnic State University, 1998

REGISTRATIONS
Professional Engineer - Electrical - California (18977)

Professional Engineer - Civil - Alaska (AELE13776)

Professional Engineer - Missouri (2019011792)

Professional Engineer - New Mexico (22963)

Professional Engineer - Nevada (022088)

Professional Engineer - Hawaii (PE-18541)

Professional Engineer - Electrical - Oregon (85974PE)

PROJECT EXPERIENCE

East Dunne Hillside Water Reservoir and Booster Pump Station, City of Morgan Hill, Morgan Hill, CA | *QA/QC*

Jeff is providing QA/QC of the electrical design. KJ has been providing professional design services required to update the previously completed designs of the East Dunne Booster Pump Station modifications and the East Dunne Hillside Water Reservoir, working closely with City staff. KJ will provide electronic files of design plans in AutoCAD format and one full-sized set of drawings on mylar.

Well 17 and Water Reservoir Design and ESDC, Linda County Water District, Marysville, CA | *Electrical Engineer*

Electrical engineer for the improvements of the existing well site and new supporting 1-million-gallon water storage tank site included layout, grading and drainage, gravity utility layout, and stormwater treatment compliance. Minimum finished floor elevations were based on FEMA flood maps for conformance. The new storage tank was a partially buried prestressed concrete reservoir. Grading of the storage tank site coordinated existing development and a future master plan adjacent to the site. This coordination included survey control discrepancies, which were successfully mitigated before construction.

Cabrillo Reservoir Replacement, City of Beverly Hills, Beverly Hills, CA | *Lead Electrical Engineer*

KJ is providing design and engineering support during construction for the Cabrillo Reservoir Replacement Project. The project consists of two prestressed concrete reservoirs (each 2.15 MG for a total emergency storage capacity of 4.3 MG); 1,650 gpm pump station; Longterm site dewatering wells, drainage vault with pump, and connections to City storm drain; and a Reservoir Management System (RMS) to maintain the optimal chloramination residual, consisting of reservoir mixers, on-line analyzers, and disinfection chemicals. Electrical tasks include coordination with SCE for new power service, fire pump design, emergency generator and electrical infrastructure to support the pumping needs of multiple zones.

PR 6 *Resumes (Contd.)*

Jeff Mohr, PE, CEM

Professional Engineer - Electrical - Texas (119554)

Professional Engineer - Electrical - North Dakota (PE-9513)

Professional Engineer - Electrical - Washington (48675)

Professional Engineer - Colorado (PE.0049941)

CERTIFICATIONS

Certified Energy Manager, Association of Energy Engineers

MEMBERSHIPS / AFFILIATIONS

Institute of Electrical and Electronics Engineers (IEEE), Member

Certified Energy Manager (AEE)

Canyon Lake Water Treatment Plant Phase 1 Improvements, Elsinore Valley Municipal Water District, Lake Elsinore, CA | *Electrical Engineer*

KJ developed the preliminary design and final design of the Phase 1 Improvements at an existing surface water treatment facility, the Canyon Lake Water Treatment Plant. The plant draws water from Canyon Lake, which receives surface water tributary to the San Jacinto watershed and has a capacity of 12,000 acre-feet. This project included an evaluation of PFAS treatment alternatives to be further studied and tested, including post-filtration GAC, IX, and/or Fluorosorb, and recommended a dual barrier GAC/IX or GAC/Fluorosorb system. The team conducted pilot testing for approximately 10 months on two alternative PFAS treatment trains, including (1) post-filtration dual barrier PFAS treatment with GAC/IX and GAC/Fluorosorb alternatives, and (2) a GAC/Pyrolusite in filter with IX post filter contactor treatment train. In addition to a new PFAS treatment system and appurtenant systems, the Phase 1 Improvement design includes a new static and rapid mixer, flocculation/sedimentation basins, centralized chemical storage and handling facility, and PFAS booster pump station, intake pump station, and site improvements.

Lindero Pump Station Improvements, Calleguas Municipal Water District, Thousand Oaks, CA | *QA/QC*

Provided QA/QC of project deliverables, including reports, plans, specifications, and cost estimates. Project involved design of a major upgrade to Calleguas Municipal Water District's Lindero Pump Station. Preliminary design efforts on the project include a seismic evaluation of the pump station building and surge tanks, hydraulic evaluation to determine pumping capacity and pump configuration, and an evaluation of standby power alternatives. Final design also included replacing electrical and mechanical equipment and various structural and architectural improvements.

Lake Bard Pump Station Design, Calleguas Municipal Water District, Thousand Oaks, CA | *QA/QC*

KJ provided preliminary and final design services for a new 60 cfs pump station at Calleguas Water Districts Lake Bard Water Filtration Plant. The pump station, which includes three vertical turbine pumps, allows Calleguas to access water in lower levels of Lake Bard for emergency use. Jeff provided QA/QC of project deliverables including reports, plans, specifications, and cost estimates.

Conejo Pump Station Rehabilitation Conceptual Design, Calleguas Municipal Water District, Thousand Oaks, CA | *QA/QC*

The Conejo Pump Station is an 80 cfs potable water pump station that was originally constructed in 1965 and was in need of a thorough evaluation and to identify deficiencies and develop a plan for improvements. Recommended improvements include new split-case pumps, electrical systems, demolition of the existing building and construction of a new facility, and replacement of the existing 750 kW hydroturbine. Jeff provided QA/QC of project deliverables including reports, plans, specifications, and cost estimates.

Evaluation and Preliminary Design for the Replacement of the Sunset Reservoir, Pasadena Water and Power, Pasadena, CA | *Electrical Quality Review Engineer*

KJ provided engineering services for the evaluation and preliminary design for the replacement of 15.5 MG earth embankment reservoirs with two new prestressed concrete reservoirs totaling 11.0 MG. Electrical review tasks included review of new incoming SCE utility service entrance equipment to power existing electrical infrastructure, and to ensure modifications of existing infrastructure were designed in a manner to maintain UL listing of existing equipment and minimize downtime.

PR 6 *Resumes (Contd.)*

Gregory T. Farrand, PG, CEG

Principal Geologist

YEARS OF EXPERIENCE

45

EDUCATION

Masters in City Planning, 1976, San Diego State University

B.S., Geology, 1969, California State University, Northridge

REGISTRATIONS

PG 3645 (California)

CEG 1087 (California)

PROFESSIONAL AFFILIATIONS

American Public Works Association

American Society of Civil Engineers, Pipeline and Environmental Group

Association of Engineering Geologists

Geological Society of America

San Diego Association of Geologists

Seismological Society of America

South Coast Geological Society

Society of American Value Engineers

San Diego Chapter - Vice President of Programs

Mr. Farrand's professional experience includes geologic and geotechnical investigations for treatment plants, reservoirs, dams, tunnels, pipelines, highways, bridges, power plants, quarries, groundwater resources, and environmental impact reports. Mr. Farrand has authored scientific papers on fault and landslide hazards, and coastal bluff stability in southern California and Baja California. He has performed extensive field mapping, analyses of borings and trenches, seismic refraction surveys, remote sensing surveys, and environmental studies. His responsibilities consist of technical direction to the staff of geologists and field personnel, and in-house Quality Assurance/Quality Control review of investigations and analyses on geologic, hydrogeologic, and geotechnical projects.

REPRESENTATIVE EXPERIENCE

Twentynine Palms Water District, Twentynine Palms Wastewater Treatment Plant, Twentynine Palms, California: Principal Geologist during a geotechnical evaluation for design of the Twentynine Palms Treatment Plant project, which includes the construction of three evaporation ponds in the northern portion of the treatment plant property west of the existing treatment plant. Services included background review; a geotechnical reconnaissance of the site; a subsurface evaluation of the site consisting of drilling, sampling, and logging exploratory borings; percolation tests; geotechnical laboratory testing on selected samples; and preparation of a geotechnical design report for the project. Geotechnical recommendations were provided relative to design and construction of the project including site preparation, earthwork, seismic design parameters, and concrete.

Yucaipa Valley Water District, Salinity & Groundwater Enhancement (SAGE), Yucaipa Valley, California: Principal Geologist during a geotechnical evaluation for the proposed Salinity and Groundwater Enhancement Project (SAGE). The improvements included new tertiary MF clarifier tank, RO/OV building and associated pump station and wet well, lime stabilization building, and effluent, RO permeate, and RO concentrate lines. Services included background review; a field reconnaissance to observe site conditions and to locate and mark proposed borings; a subsurface evaluation to consist of the excavating, logging, and sampling of eight borings excavated with truck-mounted drilling equipment utilizing hollow stem augers up to 60 feet below existing grades; laboratory testing; data compilation and geotechnical analysis; and preparation of a geotechnical report presenting our findings, conclusions, and recommendations for construction of the proposed improvements.

Western Municipal Water District, Victoria Avenue Recharge Water Facility, Riverside, California: Principal Geologist during geotechnical, materials testing, and inspection services for the Victoria Avenue Recharge Water Facility project, which consisted of the excavation of 2 basins and a storm water detention basin, grading of perimeter slopes, and installation of the influent piping systems. Additional site improvements included masonry retaining walls constructed on reinforced concrete foundations, basin inlet/outlet structures, entry gate, turn-out control building, and access roads and ramps. Services during earthwork included project coordination, management and technical support; attendance at pre-construction meetings and field meetings; observation, sampling and density testing during grading, trench backfill operations, and wall backfill, as well as during the exterior subgrade, aggregate base, concrete hardscape and asphalt pavement compaction operations; observation

PR 6 *Resumes (Contd.)*

Gregory T. Farrand

Principal Geologist

inspection of slope grading and foundation excavations; preparation of daily field reports and test data sheets for laboratory testing of construction material samples; and preparation and submittal of a final compaction report; and provision of written recommendation, as appropriate. Also provided materials testing and inspection services.

Horsethief Canyon Water Reclamation Facility, Riverside County, California: Principal Geologist during a geotechnical evaluation for improvements at the Horsethief Canyon Water Reclamation Facility. The project was comprised of two separate sites, an existing water reclamation facility and an upper pond. The first site was the existing Water Reclamation Facility, located on Shotgun Trail Road, east of Horsethief Canyon Road and an Upper Pond located 1.5-miles to the west in Horsethief Canyon. The existing Water Reclamation Facility, having facility has a current capacity of 0.5 million gallons per day (MGD),) and the expansion will be expanded increase its capacity to 0.6 MGD. Improvements included an oxidation ditch, secondary clarifiers, secondary effluent equalization basin, a reclaimed water reservoir, a chlorine contact chamber, percolation ponds, sludge drying beds, a new channel grinder and influent bar rack, a new Parshall flume and flowmeter, new piping between the oxidation ditches and clarifiers, expansion of the secondary effluent equalization basin to accommodate an additional 45,000 gallons of volume, removal of the existing liner in the eastern lower percolation pond and preparation for resumed percolation, and other improvements. Services included background review; a field reconnaissance; a subsurface evaluation; percolation tests; geotechnical laboratory testing; and preparation of a report presenting our findings, conclusions, and recommendations regarding the geotechnical design aspects of the project.

Western Municipal Water District, Graeber Pipeline, March Air Reserve Base, Riverside, California: Principal Geologist during a geotechnical evaluation for the Western Municipal Water District's Graeber water pipeline replacement project located at March Air Reserve Base. The Graeber water pipeline is 12 inches in diameter, is approximately 7,350 feet in length, and was installed at a depth of 5 feet, in order to replace the existing, smaller diameter fire service pipeline at the base. The project involved trenchless methods of installation for the pipeline's undercrossing of the tarmac. The pipeline was also installed by cut and cover methods. Services included background review; preparation of a safety plan for drilling and sampling operations for review and approval by base personnel; attendance at one kick-off meeting to discuss field evaluation procedures, safety requirements, and other items pertinent to our geotechnical evaluation; a field reconnaissance of the site; drilling, logging, and sampling of seven exploratory borings; laboratory testing on selected soil samples; data compilation and engineering analysis; and preparation of a report presenting our findings, conclusions, and recommendations for the project.

Padre Dam Municipal Water District, East Victoria Reservoir and Pump Station Project, Alpine, Alpine, California: Principal Geologist during a geotechnical consulting and construction testing services for the East Victoria Reservoir and Pump Station project in Alpine, California. The project included the demolition and replacement of the existing reservoir and pump station. The new reservoir consisted of a partially buried, pre-stressed concrete structure with a diameter of 125 feet. The pump station is a reinforced masonry building with shallow concrete foundations. Further improvements to the site include a reinforced masonry retaining wall, underground piping, and paved access roads. Our geotechnical consulting services included the performance of a geotechnical evaluation. As part of the evaluation we performed a background review of documents including as-built drawings for the existing structures, performance of a subsurface exploration using borings, laboratory testing of soil samples collected, and preparation of a report.

Country Club Reservoir, Valley Center, California: Principal Geologist during a geotechnical design, geotechnical observation and materials testing of Valley Center Municipal Water District's Country Club Reservoir Project. The Country Club Reservoir is an approximately 10 million gallon earthen reservoir located northwest of the intersection of Circle R Lane and Larenda Lane in western Valley Center, California. The project included demolition of the existing reservoir roof and lining, construction of an earthen berm to split the existing reservoir into two cells, and reconstruction of the reservoir embankments. In addition, the reservoir received a new hypalon lining and cover. The cover is supported by a new ring wall to be constructed around the perimeter of the reservoir. Further improvements included a pump house with retaining wall and a paved access road around the perimeter of the reservoir.

PR 6 *Resumes (Contd.)*

Cozad & Fox, Inc.

- CIVIL / STRUCTURAL ENGINEERS
- MUNICIPAL CONSULTANTS
- SURVEYORS / PLANNERS
- WATER RESOURCES
- TRANSPORTATION

RESUME

BRIAN D. FOX, M.S.C.E.
PRINCIPAL / PROJECT MANAGER
PROFESSIONAL LAND SURVEYOR NO. 7171
REGISTERED CIVIL ENGINEER NO. 57264

Brian Fox has over 28 years of experience; he joined the firm of **Cozad & Fox, Inc.** in September of 1990. Currently Mr. Fox serves as President of **Cozad & Fox, Inc.** and directs the firm to provide innovative, creative, and cost reducing alternatives to meet the client's needs Mr. Fox has also worked for Metropolitan Water District where he performed GPS surveys at the Eastside Reservoir Project and at Yorba Linda Water District. While with MWD, Mr. Fox also performed construction surveys for pipelines, treatment facilities and pumping plants. At Yorba Linda Water District, Mr. Fox was responsible for design of water pipelines and facilities.

Mr. Fox's educational background includes a Bachelor of Science degree in Civil Engineering with Survey Option from California State Polytechnic University, Pomona, where he graduated Cum-Laude. He has also received a Master of Engineering degree from California State Polytechnic University, Pomona. In addition, he has completed extensive civil engineering course work at California State University, Long Beach.

As Project Engineer and Project Manager, Mr. Fox has been the team leader for public sector civil engineering projects. Mr. Fox's experience includes GPS, topographic, and construction surveys; design of grading, drainage, and storm drain facilities; street and highway improvements; water, sewer and recycled water facilities; storm channels; and hydrology and hydraulic studies. Because of his construction and surveying experience, he has specialized expertise in constructability review of water and sewer systems.

Mr. Fox is a member of Chi-Epsilon, the Civil Engineering Honor Society; Tau Beta Pi; Phi Kappa Phi, the top 5 percent honor society; and Golden Key National Honor Society.

EDUCATION
Civil Engineering-Survey Option
California State Polytechnic University, Pomona, 1995
Masters – Engineering
California State Polytechnic University Pomona, 2001

REGISTRATIONS
Professional Land Surveyor No. 7171, California
Registered Civil Engineer No. 57264, California
QSD/QSP 2016-2017
Certificate No. 00967

AFFILIATIONS
California Land Surveyors Association
Chi Epsilon
Tau Beta Pi
Phi Kappa Phi
Golden Key National Honor Society

PUBLICATIONS
A.C.S.M. Mobile Device for the Remote Mapping of Electric Fields

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151 South Girard Street • Hemet, CA 92544-4662
951 / 652-4454 • FAX: 951 / 766-8942 • bfox@kbcozad.com

PR 6

Proof of Professional Registrations

All professional engineering licenses and license numbers are included in each team members resumes in this section. All licenses have been verified and are active.

PR 10 *Certificates of Professional Liability Insurance*

Kennedy Jenks

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/1/2024 9/18/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Lockton Companies
444 W. 47th Street, Suite 900
Kansas City MO 64112-1906
(816) 960-9000
kcasu@lockton.com

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Zurich American Insurance Company	16535
INSURER B : Columbia Casualty Company	31127
INSURER C : AIG Specialty Insurance Company	26883
INSURER D : American Guarantee and Liab. Ins. Co	26247
INSURER E :	
INSURER F :	

INSURED 1419672
KENNEDY/JENKS CONSULTANTS, INC
275 BATTERY ST., SUITE 550
SAN FRANCISCO CA 94111

COVERAGES CERTIFICATE NUMBER: 14305592 REVISION NUMBER: XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY; CLAIMS-MADE [ ] X OCCUR; GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT [ ] LOC; OTHER:	N	N	GLO 9695566	10/1/2023	10/1/2024	EACH OCCURRENCE	$ 2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 2,000,000
							GENERAL AGGREGATE	$ 4,000,000
							PRODUCTS - COMP/OP AGG	$ 4,000,000
								$
A	AUTOMOBILE LIABILITY; X ANY AUTO; X OWNED AUTOS ONLY; [ ] SCHEDULED AUTOS; X HIRED AUTOS ONLY; X NON-OWNED AUTOS ONLY	N	N	BAP 9326879	10/1/2023	10/1/2024	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
							BODILY INJURY (Per person)	$ XXXXXXX
							BODILY INJURY (Per accident)	$ XXXXXXX
							PROPERTY DAMAGE (Per accident)	$ XXXXXXX
								$ XXXXXXX
D	X UMBRELLA LIAB X OCCUR; EXCESS LIAB CLAIMS-MADE; DED [ ] RETENTION $	N	N	SXS 4152157	10/1/2023	10/1/2024	EACH OCCURRENCE	$ 1,000,000
							AGGREGATE	$ 1,000,000
								$ XXXXXXX
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N; ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) [N]; If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	N	WC 9326871	10/1/2023	10/1/2024	X PER STATUTE / OTH-ER	
							E.L. EACH ACCIDENT	$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
B	PROFESSIONAL LIABILITY;	N	N	AEH591952690	10/1/2023	10/1/2024	PROF: $1M PER CLAIM / $1M AGG;	
C	CONTRACTORS POLLUTION LIA			CPO1301 4051	10/1/2023	10/1/2024	POLL: $1M PER CLAIM / $1M AGG	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

14305592
EVIDENCE OF COVERAGE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

PR 11

Schedule of Rates

Kennedy Jenks

Client/Address: Twentynine Palms Water District
72401 Hatch Road
Twentynine Palms, CA 92277

Contract/Proposal Date: February 20, 2024

Schedule of Charges

Date: January 1, 2022

PERSONNEL COMPENSATION

Classification	Hourly Rate
Engineer-Scientist-Specialist 1	$140
Engineer-Scientist-Specialist 2	$170
Engineer-Scientist-Specialist 3	$190
Engineer-Scientist-Specialist 4	$205
Engineer-Scientist-Specialist 5	$225
Engineer-Scientist-Specialist 6	$250
Engineer-Scientist-Specialist 7	$275
Engineer-Scientist-Specialist 8	$295
Engineer-Scientist-Specialist 9	$310
CAD-Technician	$130
Senior CAD-Technician	$145
CAD-Designer	$160
Senior CAD-Designer	$175
Project Assistant	$135
Administrative Assistant	$115
Aide	$90

Direct Expenses

Reimbursement for direct expenses, as listed below, incurred in connection with the work, will be at cost plus ten percent for items such as:

a. Maps, photographs, 3rd party reproductions, 3rd party printing, equipment rental, and special supplies related to the work.
b. Consultants, soils engineers, surveyors, contractors, and other outside services.
c. Rented vehicles, local public transportation and taxis, travel and subsistence.
d. Project specific telecommunications and delivery charges.
e. Special fees, insurance, permits, and licenses applicable to the work.
f. Outside computer processing, computation, and proprietary programs purchased for the work.

Reimbursement for vehicles used in connection with the work will be at the federally approved mileage rates or at a negotiated monthly rate.

If prevailing wage rates apply, the above billing rates will be adjusted as appropriate.

Overtime for non-exempt employees will be billed at one and a half times the Hourly Rates specified above.

Rates for professional staff for legal proceedings or as expert witnesses will be at rates one and one-half times the Hourly Rates specified above.

Excise and gross receipts taxes, if any, will be added as a direct expense.

The foregoing Schedule of Charges is incorporated into the agreement for the services provided, effective February 20, 2024 through December 31, 2024. After December 31, 2024, invoices will reflect the Schedule of Charges currently in effect.

PR 11 *Schedule of Rates (Contd.)*

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Schedule of Fees

Hourly Charges for Personnel

Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist	$ 210
Senior Engineer/Geologist/Environmental Scientist	$ 200
Senior Project Engineer/Geologist/Environmental Scientist	$ 195
Project Engineer/Geologist/Environmental Scientist	$ 185
Senior Staff Engineer/Geologist/Environmental Scientist	$ 170
Staff Engineer/Geologist/Environmental Scientist	$ 155
GIS Analyst	$ 130
Technical Illustrator/CAD Operator	$ 110

Field Staff

Certified Asbestos/Lead Technician	$ 195
Field Operations Manager	$ 130
Nondestructive Examination Technician (UT, MT, LP)	$ 125
Supervisory Technician	$ 120
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing)	$ 115
Senior Technician	$ 110
Technician	$ 110

Administrative Staff

Information Specialist	$ 90
Geotechnical/Environmental/Laboratory Assistant	$ 95
Data Processor	$ 75

Other Charges

Concrete Coring Equipment (includes technician)	$ 190/hr
Anchor Load Test Equipment (includes technician)	$ 190/hr
GPR Equipment	$ 180/hr
Inclinometer	$ 100/hr
Hand Auger Equipment	$ 80/hr
Rebar Locator (Pachometer)	$ 25/hr
Vapor Emission Kit	$ 65/kit
Nuclear Density Gauge	$ 12/hr
X-Ray Fluorescence	$ 70/hr
PID/FID	$ 25/hr
Air Sampling Pump	$ 10/hr
Field Vehicle	$ 15/hr
Expert Witness Testimony	$ 450/hr
Direct Expenses	Cost plus 15 %

Special equipment charges will be provided upon request.

Notes

Technicians and special inspectors, are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours. Overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

PR 11 *Schedule of Rates (Contd.)*

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Schedule of Fees for Laboratory Testing

SOILS

Atterberg Limits, D 4318, CT 204	$ 170
California Bearing Ratio (CBR), D 1883	$ 550
Chloride and Sulfate Content, CT 417 & CT 422	$ 175
Consolidation, D 2435, CT 219	$ 300
Consolidation, Hydro-Collapse only, D 2435	$ 150
Consolidation – Time Rate, D 2435, CT 219	$ 200
Direct Shear – Remolded, D 3080	$ 350
Direct Shear – Undisturbed, D 3080	$ 300
Durability Index, CT 229	$ 175
Expansion Index, D 4829, IBC 18-3	$ 190
Expansion Potential (Method A), D 4546	$ 170
Geofabric Tensile and Elongation Test, D 4632	$ 200
Hydraulic Conductivity, D 5084	$ 350
Hydrometer Analysis, D 6913, CT 203	$ 220
Moisture, Ash, & Organic Matter of Peat/Organic Soils	$ 120
Moisture Only, D 2216, CT 226	$ 35
Moisture and Density, D 2937	$ 45
Permeability, CH, D 2434, CT 220	$ 300
pH and Resistivity, CT 643	$ 175
Proctor Density D1557, D 698, CT 216, AASHTO T-180	$ 220
Proctor Density with Rock Correction D 1557	$ 340
R-value, D 2844, CT 301	$ 375
Sand Equivalent, D 2419, CT 217	$ 125
Sieve Analysis, D 6913, CT 202	$ 145
Sieve Analysis, 200 Wash, D 1140, CT 202	$ 100
Specific Gravity, D 854	$ 125
Thermal Resistivity (ASTM 5334, IEEE 442)	$ 925
Triaxial Shear, C.D, D 4767, T 297	$ 550
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	$ 450
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	$ 350
Triaxial Shear, U.U., D 2850	$ 250
Unconfined Compression, D 2166, T 208	$ 180

MASONRY

Brick Absorption, 24-hour submersion, 5-hr boiling, 7-day, C 67	$ 70
Brick Compression Test, C 67	$ 55
Brick Efflorescence, C 67	$ 55
Brick Modulus of Rupture, C 67	$ 50
Brick Moisture as received, C 67	$ 45
Brick Saturation Coefficient, C 67	$ 60
Concrete Block Compression Test, 8x8x16, C 140	$ 70
Concrete Block Conformance Package, C 90	$ 500
Concrete Block Linear Shrinkage, C 426	$ 200
Concrete Block Unit Weight and Absorption, C 140	$ 70
Cores, Compression or Shear Bond, CA Code	$ 70
Masonry Grout, 3x3x6 prism compression, C 39	$ 45
Masonry Mortar, 2x2 cube compression, C 109	$ 35
Masonry Prism, half size, compression, C 1019	$ 120
Masonry Prism, Full size, compression, C 1019	$ 200

REINFORCING AND STRUCTURAL STEEL

Chemical Analysis, A 36, A 615	$ 135
Fireproofing Density Test, UBC 7-6	$ 90
Hardness Test, Rockwell, A 370	$ 80
High Strength Bolt, Nut & Washer Conformance, per assembly, A 325	$ 150
Mechanically Spliced Reinforcing Tensile Test, ACI	$ 175
Pre-Stress Strand (7 wire), A 416	$ 170
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	$ 75
Structural Steel Tensile Test: Up to 200,000 lbs., A 370	$ 90
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	$ 80

CONCRETE

Compression Tests, 6x12 Cylinder, C 39	$ 35
Concrete Mix Design Review, Job Spec	$ 300
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	$ 850
Concrete Cores, Compression (excludes sampling), C 42	$ 120
Drying Shrinkage, C 157	$ 400
Flexural Test, C 78	$ 85
Flexural Test, C 293	$ 85
Flexural Test, CT 523	$ 95
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	$ 275
Lightweight Concrete Fill, Compression, C 495	$ 80
Petrographic Analysis, C 856	$ 2,000
Restrained Expansion of Shrinkage Compensation	$ 450
Splitting Tensile Strength, C 496	$ 100
3x6 Grout, (CLSM), C 39	$ 55
2x2x2 Non-Shrink Grout, C 109	$ 55

ASPHALT

Air Voids, T 269	$ 85
Asphalt Mix Design, Caltrans (incl. Aggregate Quality)	$ 4,500
Asphalt Mix Design Review, Job Spec	$ 180
Dust Proportioning, CT LP-4	$ 85
Extraction, % Asphalt, including Gradation, D 2172, CT 382	$ 250
Extraction, % Asphalt without Gradation, D 2172, CT 382	$ 150
Film Stripping, CT 302	$ 120
Hveem Stability and Unit Weight D 1560, T 246, CT 366	$ 225
Marshall Stability, Flow and Unit Weight, T 245	$ 240
Maximum Theoretical Unit Weight, D 2041, CT 309	$ 150
Moisture Content, CT 370	$ 95
Moisture Susceptibility and Tensile Stress Ratio, T 238, CT 371	$ 1,000
Slurry Wet Track Abrasion, D 3910	$ 150
Superpave, Asphalt Mix Verification (incl. Aggregate Quality)	$ 4,900
Superpave, Gyratory Unit Wt., T 312	$ 100
Superpave, Hamburg Wheel, 20,000 passes, T 324	$ 1,000
Unit Weight sample or core, D 2726, CT 308	$ 100
Voids in Mineral Aggregate, (VMA) CT LP-2	$ 90
Voids filled with Asphalt, (VFA) CT LP-3	$ 90
Wax Density, D 1188	$ 140

AGGREGATES

Clay Lumps and Friable Particles, C 142	$ 180
Cleanness Value, CT 227	$ 180
Crushed Particles, CT 205	$ 175
Durability, Coarse or Fine, CT 229	$ 205
Fine Aggregate Angularity, ASTM C 1252, T 304, CT 234	$ 180
Flat and Elongated Particle, D 4791	$ 220
Lightweight Particles, C 123	$ 180
Los Angeles Abrasion, C 131 or C 535	$ 200
Material Finer than No. 200 Sieve by Washing, C 117	$ 90
Organic Impurities, C 40	$ 90
Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260	$ 1,250
Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260	$ 950
Potential Reactivity of Aggregate (Chemical Method), C 289	$ 475
Sand Equivalent, T 176, CT 217	$ 125
Sieve Analysis, Coarse Aggregate, T 27, C 136	$ 120
Sieve Analysis, Fine Aggregate (including wash), T 27, C 136	$ 145
Sodium Sulfate Soundness, C 88	$ 450
Specific Gravity and Absorption, Coarse, C 127, CT 206	$ 115
Specific Gravity and Absorption, Fine, C 128, CT 207	$ 175

ROOFING

Roofing Tile Absorption, (set of 5), C 67	$ 250
Roofing Tile Strength Test, (set of 5), C 67	$ 250

PR 11 *Schedule of Rates (Contd.)*

Cozad & Fox, Inc.

- CIVIL AND STRUCTURAL ENGINEERS
- MUNICIPAL CONSULTANTS
- SURVEYORS / PLANNERS
- WATER RESOURCES
- TRANSPORTATION

SCHEDULE OF FEES

Effective Date: April 1, 2023 – March 31, 2025

GENERAL SCOPE OF SERVICES

Cozad & Fox, Inc. provides services in the fields of civil engineering, structural engineering, and land surveying in accordance with presently accepted professional practices. **Cozad & Fox, Inc.** does not provide services relating to construction safety and shall be held harmless by the contractor from any liability in this regard. In the event that the client requests termination of work prior to its completion, we reserve the right to complete, at the client's expense, such analysis and records as are considered necessary by us to place our files in order and/or to protect our professional reputation.

PERSONNEL CHARGES - RATES PER HOUR

Principal Civil Engineer/Principal Land Surveyor/Structural Engineer	$199.00
Senior Project Engineer/Surveyor	$173.00
Project Engineer/Surveyor	$150.00
Assistant Project Engineer/Surveyor	$137.00
Administrative/Project Coordination	$96.00
Typing, printing	$48.00
Survey - Office Analysis	$179.00
***One Man Survey Crew (Non-Prevailing Wage)**	**$173.00**
***One Man Survey Crew (Prevailing Wage)**	**$219.00**
Two Man Survey Crew (Non-Prevailing Wage)	$229.00
Two Man Survey Crew (Prevailing Wage)	$289.00
Extra Survey Crew Support (Traffic control, etc.)	Estimated by Project.

*** With today's advanced technology, most of our surveys are completed by a One-Man Survey Crew.**

OTHER CHARGES

Expert Witness - Deposition and/or Court appearance	Two times hourly rate
Expert Witness - Research, Case Review and/or Preparation	Normal hourly rate
Reimbursable Expenses and Sub Consultants	Lump Sum

NOT TO EXCEED

Cozad & Fox, Inc. will prepare quotes for individual purchase/task orders. Charges for services will be a **"Not to Exceed"** fee schedule, unless authorized.

Z:_ADMIN\Fee Schedules\CFI\CFI PW NPW - 2023.doc

151 South Girard Street • Hemet, CA 92544-4462
(951) **652-4454** • **FAX:** (951) **766-8942** • bfox@kbcozad.com

PR 13 *Iran Contracting Act Certification*

IRAN CONTRACTING ACT CERTIFICATION

(Public Contract Code section 2200 *et seq.*)

As required by California Public Contract Code section 2204, the Proposer certifies subject to penalty for perjury that the option checked below relating to the Proposer's status in regard to the Iran Contracting Act of 2010 (Public Contract Code section 2200 *et seq.*) is true and correct:

☒ The Proposer is not:

(i) identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203; or

(ii) a financial institution that extends, for 45 days or more, credit in the amount of $20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.

☒ The District has exempted the proposer from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, the District will be unable to obtain the goods and/or services to be provided pursuant to the contract.

☐ The amount of the contract payable to the Proposer for the work does not exceed $1,000,000.

Signature: _____

Title: Vice President

Firm: Kennedy/Jenks Consultants, Inc.

Date: February 20, 2024

Note: In accordance with Public Contract Code section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of $250,000 or twice the Contract Price, termination of the Contract and/or ineligibility to bid on contracts for three years.

PR 14 *Public Works Contractor Registration Certification*

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See http://www.dir.ca.gov/Public-Works/PublicWorks.html for additional information. No bid or proposal will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Proposer hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

Name of Proposer: Kennedy/Jenks Consultants, Inc.

DIR Registration Number: 1000009725

Proposer further acknowledges:

1. Proposer shall maintain a current DIR registration for the duration of the project or contract.

2. Proposer shall include the requirements of Labor Code sections 1725.5 and 1771.1 in any contract with subcontractors and ensure that all subcontractors are registered at the time of the proposal submittal and maintain registration status for the duration of the project.

3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Signature: _____

Name and Title: Ed Yang | Vice President

Dated: February 20, 2024

Addendum 1

TWENTYNINE PALMS WATER DISTRICT

ADDENDUM 1

To
Preliminary and Final Design Engineering Services
for
Redundant Treated Water Reservoir and Booster Pump Station Project
at the Fluoride Removal Plant

The following questions were submitted to Twentynine Palms Water District (TPWD or District) after the mandatory pre-proposal meeting held on January 25, 2024:

Q1: Will addenda be counted towards the page limit?
A1: No

Q2: Twentynine Palm Water District's public purchase site does not have an area to confirm interest in this solicitation. Should there be a button of some sort that allows for this?
A2: TPWD does not have this option with Public Purchase for this proposal.

Q3: Referencing Proposal Requirement #6, you explain that you want proof of professional registrations. Would a table with active license numbers be sufficient? Will this be counted towards the page limit?
A3: TPWD is not specific on how to communicate this information – it is up to the proposer. For example, inclusion of PE license information on individual resumes is sufficient.

Q4: Referencing Proposal Requirement #9, you explain that our reference projects should be similar in size. What do you mean by size?
A4: 'Size' refers to a project of similar construction cost to the TPWD project. As a clarification to Proposal Requirement #9, the references shall be from the project owner.

Q5: Referencing Proposal Requirements #10, 11, 13, and 14, will these forms all be counted towards the page limit?
A5: Only item 12. That information should be included in the response to Proposal Requirement #4. As a clarification to Proposal Requirement #4, the item should read, "scope of work and approach which clearly ..."

Addendum 1 (Contd.)

Q6: Do we need to provide proof of professional liability insurance for subs as well or just the prime?
A6: Prime only. Subs will be required to provide this information prior to performing field work on TPWD property.

Q7: Will you be utilizing the front ends specs from the Treated Water Reservoir Coatings Improvement project as guide specs?
Q8: Front end specifications provided by TPWD will be similar to previous Requests for Bid.

Q9: Will CEQA support be required for this work or will the District be responsible for the CEQA?
A9: Consultant will provide a Project Description that will be forwarded to the District's consultant responsible for the CEQA process.

Q10: Will a standby generator or connection for a standby generator be required for this project?
A10: No. New facilities will be integrated into the existing plant standby generator.

Q11: Will the District be responsible for potholing utilities? If the District is not potholing the utilities, will they be marking out the utilities?
A11: TPWD will identify all known utilities upon request from the consultant. If potholing is required, District forces will perform those services.

Q12: Please confirm that a surge analysis for the pump station will not be required for this project or can be considered optional work.
A12: Proposers should identify and describe the appropriate level of hydraulic analysis in their approach and understanding of the project.

Q13: Can a firm propose to provide only the geotechnical report?
A13: No. The Prime shall include the entire scope of work described in the RFP. This does not preclude a geotechnically-focused firm from acting as prime; however, they would need to describe how the balance of work would be performed.

Q14: Will/Can the Pre-Submittal Meeting Attendee List be made available?
A14: Yes. Pre-proposal attendees:

- Webb & Associates
- Earth Systems
- Kennedy Jenks
- Rain for Rent

Additional corrections and clarifications:

1. Fix spelling of 'flouride' on RFP title sheet to read "fluoride."
2. **Project is expected to be approximately a 10-month design effort, with 2-week turnaround on TPWD reviews. Proposers shall add a schedule to their 'understanding of the project' section and will be given credit for finishing the design in less time.**

Addendum 1 (Contd.)

3. **In Proposal Requirement #3, proposers shall score higher with a more cost-effective design, not cheaper design.**
4. TPWD's starting expectation for the design:
    a. The tank design is a steel tank on grade.
    b. The power feed to the existing pumps will be used to feed the new pumps, which will not coincidentally operate.
    c. Valves will all be manual valves with position indication to SCADA only, pumps can be started locally or remotely from SCADA, include standard protection alarms and interlocks.
5. **Disregard the "EXTENT OF SURVEY" area in the RFP graphic. Proposer will describe the extent of survey appropriate to this project in their understanding of the project.**
6. **Resumes are not included in the 20-page maximum.**
7. After scoring proposals, TPWD reserves the right to conduct interviews with proposers. This decision will be made at the District's discretion.

END OF ADDENDUM 1

Kennedy Jenks

Contact Information

Rachel Druffel-Rodriguez, PE
Project Manager
(858) 676-7532

San Diego Office
9325 Sky Park Court, Suite 300
San Diego, CA 92123

REQUEST FOR PROPOSALS
for
PRELIMINARY AND FINAL DESIGN ENGINEERING SERVICES
for
REDUNDANT TREATED WATER RESERVOIR AND BOOSTER PUMP STATION PROJECT AT THE FLOURIDE REMOVAL PLANT

PROPOSALS MUST BE RECEIVED BY
FEBRUARY 20, 2024, AT 2:00 PM

TWENTYNINE PALMS WATER DISTRICT
72401 HATCH ROAD
TWENTYNINE PALMS, CA 92277

REQUEST FOR PROPOSALS
TWENTYNINE PALMS WATER DISTRICT

TABLE OF CONTENTS

I. INTRODUCTION

The Twentynine Palms Water District ("TPWD" or "District") is inviting experienced firms[1] ("Proposers") to submit a proposal ("Proposal") to provide Engineering Design services for the Redundant Treated Water Tank and Booster Pump Station Project ("Project"). Engineering Services ("Services") will include, but will not be limited to, the following:

- Review of available materials from the District and other sources
- Perform topographic survey
- Preparation of a geotechnical report
- Preparation of a preliminary design report
- Preparation of plans and specifications for construction
- Providing an opinion of probable construction costs
- Providing bid and construction support services

A preliminary scope of work is included to assist in the preparation of the proposal. Failure to submit information in accordance with the requirements in this Request for Proposal ("RFP") may render the proposal non-responsive.

Each Proposer is requested to attend a MANDATORY pre-proposal meeting to be held on JANUARY 25, 2024 from 10:00 a.m. until noon at TPWD's Floride Removal Plant at the corner of Amboy Road and Utah Trail in Twentynine Palms. Failure to attend this meeting will preclude Proposer from submitting a Proposal. Attendance at the pre-proposal meeting will ensure the Proposer understands the full scope of the Services requested. Any questions at this meeting will be submitted in writing, with answers documented in an addendum to this RFP.

TPWD anticipates the fee for these services will be between $140,000 and $200,000.

II. BACKGROUND INFORMATION

The Twentynine Palms Water District is an independent special district providing water services to approximately 18,000 residents, which encompasses 87-square miles of Twentynine Palms and unincorporated areas of San Bernardino County. The District maintains nearly 8,000-meter services, 350 miles of pipeline and 17 million gallons of water storage capacity.

The District currently has an existing above grade approximately 200,000 gallon treated water reservoir and associated booster pump station located at their Fluoride Removal Plant. The reservoir functions as a clearwell providing adequate contact time after hypochlorite injection. The pump station consists of two (2) 2,100 gpm, 250 motor hp pumps that transfer the treated

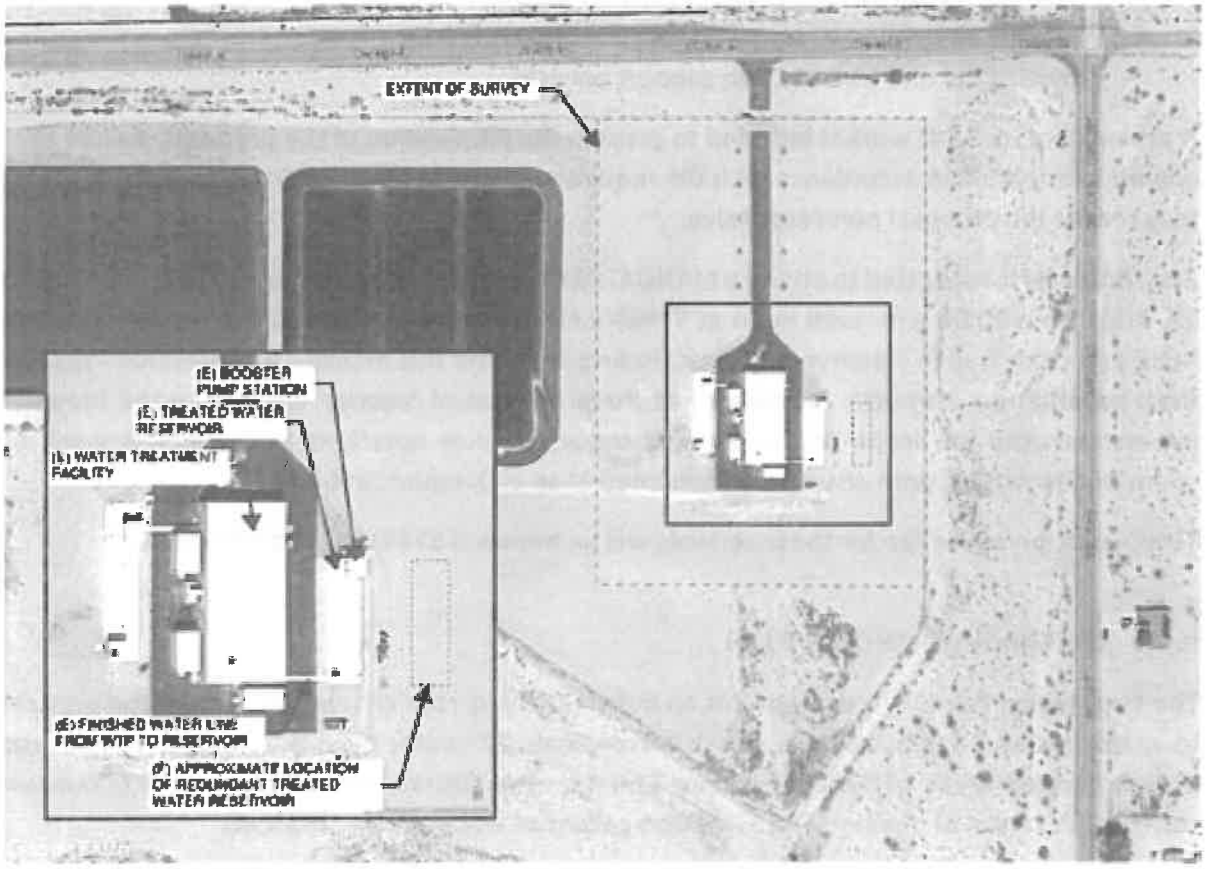
[1] Use of the term "firm(s)" shall mean individual proprietorship, partnership, limited liability company, corporation, or joint venture.

water into the nearby elevated reservoir located on Singing Sands Road, and into the distribution system.

The District requires redundancy during maintenance of the system; therefore, the District proposes to construct a similar 200,000 gallon (capacity to be confirmed by owner) above grade reservoir and booster pump station. These facilities will provide sufficient flexibility so the existing tanks can be taken out of service for cleaning and repairs.

To maintain operational consistency of the new tank with the existing tank, the new tank and pump station will mimic the existing facilities.

The Project location is near the intersection of Amboy Road and Utah Trail in Twentynine Palms.



III. PUBLIC WORKS PREVAILING WAGE AND DIR CONTRACTOR REGISTRATION

Certain labor categories under this Project may be subject to prevailing wages as identified in the State of California Labor Code commencing at sections 1720 et seq. and 1770 et seq. If applicable, employees working in these categories at the site must be paid not less than the basic hourly rates of pay and fringe benefits established by the California Department of Industrial Relations ("DIR"). Copies of the State of California wage schedules are available for review at www.dir.ca.gov/dlsr/. In addition, a copy of the prevailing rate of per diem wages will be made

available at the District's office upon request. The successful Proposer shall post a copy of the prevailing wage rates at each job site. It shall be mandatory upon the Proposer to whom the Agreement is awarded, and upon any subcontractors, to comply with all Labor Code provisions, which include but are not limited to the payment of not less than the said specified prevailing wage rates to all workers employed by them in the execution of the Agreement, employment of apprentices, hours of labor and debarment of contractors and subcontractors.

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the DIR. No Proposal will be accepted nor any contract entered into without proof of the Proposer's and subcontractors' current registration with the DIR to perform public work. If awarded a contract, the Proposer and its subcontractors, of any tier, shall maintain active registration with the DIR for the duration of the project. Notwithstanding the foregoing, the contractor registration requirements mandated by Labor Code Sections 1725.5 and 1771.1 shall not apply to work performed on a public works project that is exempt pursuant to the small project exemption specified in Labor Code Sections 1725.5 and 1771.1. The contract awarded pursuant to this proposal may also be subject to compliance monitoring and enforcement by the DIR.

IV. SCOPE OF WORK

A general outline of the scope of work is provided below. It is the District's expectation that the selected Proposer ("Consultant") use their expertise to finalize the scope of work below, as appropriate, to meet the Project objectives in a cost-effective manner. Proposers may identify additional tasks as needed to meet the Project objectives or may offer optional tasks as appropriate. All Proposers shall be properly licensed for the performance of the Services in accordance with California Law.

Notwithstanding the inclusion of such Services in this RFP, the final scope of Services negotiated between District and the successful Proposer shall be set forth in the Professional Services Agreement ("Agreement") executed by and between District and the successful Proposer. A copy of the Agreement is attached hereto as Appendix "A" and incorporated herein by this reference.

1) Phase 1 – Preliminary Design Phase

The Consultant shall prepare a preliminary design report ("PDR") – draft PDR and final PDRs must be stamped by a California Register Professional Civil Engineer. The PDR shall include a proposed site plan and operational plan to be used for budgeting and funding purposes. During this phase, the Consultant shall also:

- Perform aerial topographic survey. This scope includes generating a basemap of the Project area with 1' contours in AutoCAD and providing high-definition aerial imagery of the entire plant site.
- Perform geotechnical investigation of Project area, to the minimum extent to support Project design.
- Review tank sizing and perform a hydraulic analysis to confirm the pumping requirements of the redundant system, with the results and recommendations presented in the PDR. Note that the new facilities are expected to mimic the existing facilities.
- Research grant and funding opportunities suited for this Project and provide grant/funding information, such as description and requirements of the grant program and phase of the design to apply.
- Provide the Opinion of probable construction costs (OPCC).

2) **Phase 2 – Final Design and Bid Phase**

The Consultant shall prepare plans and specifications for construction upon the conclusion of Phase 1. This phase shall include 60%, 90%, and 100% plans and specifications (front-end and technical). Final bid plans and specifications are to be designed and stamped by an engineer (engineers) licensed in the State of California. Final bid plans and specifications shall be provided in both electronic format and hard copies.

- The District will provide the front-end documents and special general provisions, but the Consultant is expected to make the updates to the front-end documents and include the summary of work, bid schedule, and measurement and payment specifications. Measurement and payment should provide a clear summary of what each bid line item must be used for and the work entailed per line item.
- The Consultant shall conduct a project kick-off meeting and subsequent meetings during the 60% and 90% design phase. The meetings can either be virtual or in person.
- This Consultant shall include the Opinion of probable construction costs (OPCC) during the 60%, 90% and 100% design phase.
- The Consultant shall also provide a timeline of construction events (organized by activity) during the 60%, 90% and 100% design phase.
- Bidding services – attend pre-bid conference and bid opening. Respond to questions and prepare addendum (addenda).

V. MINIMUM CONSULTANT QUALIFICATIONS

The Consultant shall provide information to verify the following minimum qualifications:

1) Design and construction management experience related to the preliminary scope of work provided above.

2) Project Manager shall have sufficient experience in the assessment, design, and construction of the new facilities described above, with a minimum of 5 years' experience and must be a registered Civil Engineer in the State of California.
3) Ability to execute the standard Professional Services Agreement (Appendix A).

VI. PROPOSAL REQUIREMENTS

The Proposals shall have, at a minimum, the following requirements, and shall not exceed 20 pages in length using at least size 10 font on 8-1/2" X 11" sheets:

1) Legal name of the firm with address, telephone number
2) Identification of the project manager assigned to the Project and the principal engineer with technical oversight of the design.
3) A recommended scope of work which clearly displays an understanding of the Project, using the background and scope of work provided above as the basis.
4) List and description of investigations needed for the Project, such as utility research, topographic survey, and geotechnical exploration.
5) Fee breakdown to execute the understanding and approach for the Project proposed. Fee shall include rates and hours for both prime consultant and subconsultants. Consultants are encouraged to use the most efficient and innovative methods possible commensurate and appropriate to meet Project objectives.
6) Names and resumes of individual(s) proposed to perform the services, including proof of professional registrations, as appropriate. Resumes of the Project Manager, hydraulics engineer, and the principal design engineer who will either stamp or review plans will be included.
7) Description of the firm's internal quality control processes.
8) Names, qualifications, and principals of any subconsultants to be utilized.
9) References for <u>three</u> recently completed projects or current projects of similar size and scope including contact person(s) and telephone number.
10) Certificate of professional liability insurance.
11) Schedule of rates.
12) List of assumptions and inclusions/exclusions.
13) Iran Contracting Act Certification (Appendix "B")
14) Public Works Contractor Registration Certification (Appendix "B")

VII. REQUEST FOR CLARIFICATIONS

All questions, requests for interpretations or clarifications, either administrative or technical must be requested in writing and directed to the District's Point of Contact for the Project, identified herein or submit via the online service. All written questions, if answered, will be answered in writing, conveyed to all interested firms via an RFP addendum. Oral statements by any persons

should be considered unverified information unless confirmed in writing. To ensure a response, questions must be received in accordance with the schedule outlined herein.

VIII. PROPOSAL CONSIDERATIONS

1) No Deviations from the RFP: In submitting a Proposal in response to this RFP, Proposer is certifying that it takes no exceptions to this RFP including, but not limited to, the Agreement attached hereto as Appendix "A." If any exceptions are taken, such exceptions must be clearly noted in the Proposal and may be reason for rejection of the Proposal. As such, Proposer is directed to carefully review the proposed Agreement and, in particular, the insurance and indemnification provisions therein.

2) Conflicts of Interest: Proposers shall comply with all regulations and laws dealing with conflict-of-interest disclosure and reporting. Proposers shall not be engaged if a conflict of interest exists.

3) Confidentiality of Proposal: Proposals submitted in response to this RFP shall be held confidential by District and shall not be subject to disclosure under the California Public Records Act (Cal. Government Code section 6250 et seq.) until after either District and the successful Proposer have completed negotiations and entered into an Agreement or District has rejected all Proposals. All correspondence with the District including responses to this RFP will become the exclusive property of the District and will become public records under the California Public Records Act. The District will have no liability to the Proposer or other party as a result of any public disclosure of any proposal or the Agreement. If a Proposer desires to exclude a portion of its proposal from disclosure under the California Public Records Act, the Proposer must mark it as such and state the specific provision in the California Public Records Act which provides the exemption as well as the factual basis for claiming the exemption. For example, if a Proposer submits trade secret information, the Proposer must plainly mark the information as "Trade Secret" and refer to the appropriate section of the California Public Records Act which provides the exemption as well as the factual basis for claiming the exemption. If a request is made for information marked "Confidential", "Trade Secret" or "Proprietary" ("Proprietary Information"), the District will provide Proposers who submitted the information with reasonable notice to seek protection from disclosure by a court of competent jurisdiction. Proposer shall have five (5) working days after receipt of such notice to give District written notice of Proposer's objection to the District's release of Proprietary Information. Proposer shall indemnify, defend and hold harmless the District, and its officers, directors, employees, and agents from and against all liability, loss, cost or expense (including attorney's fees) arising out of a legal action brought to compel the release of Proprietary Information. Proposals which indiscriminately identify all or most

of the Proposal as exempt from disclosure without justification may be deemed unresponsive and disqualified from further participation in this RFP.

IX. EVALUATION CRITERIA

Proposals will be evaluated based upon the following:

1) The quality of performance on past projects (submitted project review), by both the Project Manager, principal design engineer, and firm, largely influenced by reference checks (25%)
2) Expertise (resume review) in the field of above ground water reservoirs and booster pump stations as demonstrated by reference check (20%)
3) Project understanding and approach (20%)
4) Fee proposal (30%)
5) Quality of proposal (5%)

During the evaluation process, the District reserves the right, where it may serve the District's best interest, to request additional information or clarifications from Proposers, or to allow corrections of errors or omissions. It is the District's intent to select a Proposer best evidencing demonstrated competence and professional qualification to perform the Project. The contract, if awarded, shall be to the most qualified Proposer, which submits the proposal that, in the sole judgment of District, is in the best interest of the District.

Upon selection of a Proposer, the District will endeavor to negotiate a mutually agreeable agreement with the selected Proposer. In the event that the District is unable to reach agreement, the District will proceed, at its sole discretion, to negotiate with the next Proposer selected by the District. The District reserves the right to contract for services in the manner that most benefits the District including awarding more than one (1) contract if desired.

After negotiating a proposed Agreement that is fair and reasonable, District staff will make the final recommendation to the District Board concerning the proposed Agreement. The District Board has the final authority to approve or reject the Agreement.

X. PROTESTS

Protests based on the content of the RFP shall be submitted to the District no later than ten (10) calendar days prior to the scheduled proposal submittal deadline. If necessary, the proposal submittal deadline may be extended pending a resolution of the protest. Proposer may protest a contract award if the Proposer believes that the award was inconsistent with District policy or this RFP is not in compliance with law. A protest must be filed in writing with the District (email is not acceptable) within five (5) business days after receipt of notification of the intended

contract award. Any protest submitted after 5 p.m. of the fifth business day after notification of the intended contract award will be rejected by the District as invalid and the Proposer's failure to timely file a protest will waive the Proposer's right to protest the contract award. The Proposer's protest must include supporting documentation, legal authorities in support of the grounds for the protest and the name, address and telephone number of the person representing the Proposer for purposes of the protest. Any matters not set forth in the protest shall be deemed waived.

The District will review and evaluate the basis of the protest provided the protest is filed in strict conformity with the foregoing. The District shall provide the Proposer submitting the protest with a written statement concurring with or denying the protest. Action by the District relative to the protest will be final and not subject to appeal or reconsideration. The procedure and time limits set forth in this section are mandatory and are the Proposer's sole and exclusive remedy in the event of protest. Failure to comply with these procedures will constitute a waiver of any right to further pursue the protest, including filing a Government Code claim or legal proceedings.

XI. ADDENDA

The District reserves the right to revise the RFP prior to the time set to receive Proposals. Revisions, if any, shall be made by written addenda. All addenda issued by the District shall be included in the Proposal and made part of the RFP. Each Proposer shall leave with District its name, address, phone and fax numbers, and e-mail address for the purpose of receiving Addenda. District will cause copies of addenda to be mailed, faxed, delivered or e-mailed to such names at such addresses. Proposers are responsible for ensuring that they have received any and all addenda. Each Proposer should contact the District to verify that it has received all addenda issued, if any, prior to the bid opening. Failure to acknowledge receipt of all addenda may result in bid rejection. Should the District decide to, it may use the posting service to perform these functions.

XII. GENERAL CONDITIONS

1) Amendments to Proposals: Unless specifically requested by the District, no amendment, addendum or modification will be accepted after a proposal has been submitted to District. If a change to a proposal that has been submitted is desired, the submitted proposal must be withdrawn and the replacement proposal submitted prior to the deadline stated herein for receiving proposals.

2) Non-Responsive Proposals: A proposal may be considered non-responsive if conditional, incomplete, or if it contains alterations of form, additions not called for, or other irregularities that may constitute a material change to the proposal.

3) Costs for Preparing: All costs associated with the development and submission of proposals, including personnel, material, travel, and related expenses, shall be solely

incurred by the proposer, and TPWD will not be responsible for reimbursing any such costs, regardless of the proposal's outcome.

4) Cancellation: District reserves the right to cancel this RFP at any time prior to contract award without obligation in any manner for proposal preparation, interview, fee negotiation or other associated marketing costs.

5) Price Validity: Prices provided by Proposers are valid for 90 days from the proposal due date. The District intends to award the contract within this time but may request an extension from the Proposers to hold pricing, until negotiations are complete and the contract is awarded.

6) No Commitment to Award: Issuance of request for proposals and receipt of proposals does not commit the District to award a contract. District expressly reserves the right to postpone the proposal for its own convenience, to accept or reject any or all Proposals received, to negotiate with more than one Proposer concurrently, or to cancel all or part of this RFP.

7) Right to Negotiate and/or Reject Proposals: The District reserves the right to negotiate any price or provision, task order or service, accept any part or all of any proposals, waive any irregularities, and to reject any and all, or parts of any and all proposals, whenever, in the sole opinion of District, such action shall serve its best interests and those of the tax-paying public. The Agreement, if any is awarded, will go to the Proposer whose proposal best meets District's requirements.

XIII. SCHEDULE, POINT OF CONTACT, AND SUBMITTALS

TPWD's sole point of contact for matters related to this RFP is General Manager, Matt Shragge, who is the only individual authorized to discuss this RFP with any interested parties. All communication with TPWD will be through email at mshragge@29palmswater.org.

Request for Proposals Issued	Jan. 10, 2024
Pre-proposal Meeting (site walk)	Jan. 25, 2024, 10:00 a.m.
Last day for Requests for Information	Jan. 31, 2024, 4:00 p.m.
Proposals Due	**Feb. 20, 2024, 2:00 p.m.**
Anticipated Award Decision (Tentative)	Mar. 27, 2024

Please submit one (1) hard copy by mail (Attn: Matt Shragge) or in person in a sealed envelope to 72401 Hatch Road, Twentynine Palms, CA 92277, or electronically through the posting site by the Proposal Due Date and time as noted herein.

The envelope should clearly indicate "Proposal for (Project Name)" and Proposer's name and address shall appear in the upper left hand corner of the envelope. If more than one envelope is

required, each envelope shall be legibly numbered below the name of the Proposer, e.g. Envelope 1 of 3, as required.

The District will not be responsible for Proposals that are delinquent, lost, incorrectly marked, sent to an address other than that given herein, or sent by mail or courier service and not signed for by the District. Proposals received after this date will be returned to the Proposers unopened. Faxed or electronically submitted proposals will not be accepted.

Appendix A

Standard Agreement for Professional Services

TWENTYNINE PALMS WATER DISTRICT

PROFESSIONAL SERVICES AGREEMENT

1. PARTIES AND DATE.

This Agreement is made and entered into this xxxx day of xxxx by and between the Twentynine Palms Water District, a California water district ("District"), Engineered xxxx, a xxxx ("Consultant"). The District and Consultant are sometimes individually referred to as "Party" and collectively as "Parties."

2. RECITALS.

2.1 Consultant.

Consultant desires to perform and assume responsibility for the provision of certain professional services required by the District on the terms and conditions set forth in this Agreement. Consultant represents that it is experienced in providing on-call or as-needed infrastructure engineering services, is licensed in the State of California, and is familiar with the plans of the District. The District desires to engage Consultant to render such professional services for general owner engineering support ("Project") as set forth in this Agreement.

3. TERMS.

3.1 Scope of Services and Term.

3.1.1 General Scope of Services. Consultant promises and agrees to furnish to the District all labor, materials, tools, equipment, services, and incidental and customary work necessary to fully and adequately supply the general infrastructure engineering and owner engineering services necessary for the Project ("Services"). The Services are more particularly described in Exhibit "A" attached hereto and incorporated herein by reference, and which are stated in the proposal to the District and approved by the District's General Manager. All Services shall be subject to, and performed in accordance with, this Agreement, the exhibits attached hereto and incorporated herein by reference, and all applicable local, state and federal laws, rules and regulations.

3.1.2 Term. The term of this Agreement shall be from xxxx to xxxx, unless earlier terminated as provided herein. Consultant shall complete the Services within the term of this Agreement and shall meet any other established schedules and deadlines.

3.2 Responsibilities of Consultant.

3.2.1 Standard of Care. Consultant shall perform all Services under this Agreement in a skillful and competent manner, consistent with the standards generally recognized as being employed by professionals in the same discipline in the State of California, and consistent with all applicable laws. Consultant represents that it, its employees and subconsultants have all licenses, permits, qualifications and approvals of whatever nature that are legally required to perform the Services and that such licenses and approvals shall be maintained throughout the term of this Agreement.

3.2.2 Substitution of Key Personnel. Consultant has represented to the District that certain key personnel will perform and coordinate the Services under this Agreement. Should one or more of such personnel become unavailable, Consultant may substitute other personnel of at least equal competence upon written approval of the District. In the event that the District and Consultant cannot agree as to the substitution of key personnel, the District shall be entitled to terminate this Agreement for cause. As discussed below, any personnel who fail or refuse to perform the Services in a manner acceptable to the District, or who are determined by the District to be uncooperative, incompetent, a threat to the adequate or timely completion of the Project, or a threat to the safety of persons or property, shall be promptly removed from the Project by the Consultant at the request of the District. The key personnel for performance of this Agreement are as follows:

Matthew Shragge, General Manager, Twentynine Palms Water District

xxxx

3.2.3 Laws & Regulations; Employee/Labor Certifications. Consultant shall keep itself fully informed of and in compliance with all local, state and federal laws, rules and regulations in any manner affecting the performance of the Project or the Services. By executing this Agreement, Consultant verifies that it fully complies with all requirements and restrictions of state and federal law respecting the employment of undocumented aliens, including, but not limited to, the Immigration Reform and Control Act of 1986, as may be amended from time to time. Consultant shall maintain records of its compliance, including its verification of each employee, and shall make them available to the District or its representatives for inspection and copy at any time during normal business hours. The District shall not be responsible for any costs or expenses related to Consultant's compliance with the requirements. To the same extent and under the same conditions as Consultant, Consultant shall require all of its subconsultants, sub-subconsultants and consultants performing any work relating to the Project or this Agreement to make the same verifications and comply with all requirements and restrictions provided herein. Consultant's failure to comply or any material misrepresentations or omissions relating thereto shall be grounds for terminating this Agreement. By its signature hereunder, Consultant certifies that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and agrees to comply with such provisions before commencing the performance of the Services. Consultant represents that it is an equal opportunity employer and it shall not discriminate against any subconsultant, employee or applicant for employment in violation of state or federal law. As

provided for in the indemnity obligations of this Agreement, Consultant shall indemnify the District against any alleged violations of this paragraph, including, but not limited to, any fines or penalties imposed by any governmental agency.

3.2.4 Insurance. Consultant shall take out and maintain: (A) Commercial General Liability Insurance, of at least $1,000,000 per occurrence/$2,000,000 general aggregate for bodily injury, personal injury and property damage, at least as broad as Insurance Services Office Commercial General Liability most recent Occurrence Form CG 00 01; (B) Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, of at least $1,000,000 per occurrence for bodily injury and property damage, at least as broad as most recent Insurance Services Office Form Number CA 00 01 covering automobile liability, Code 1 (any auto); (C) Workers' Compensation Insurance in compliance with applicable statutory requirements and Employer's Liability Coverage of at least $1,000,000 per occurrence; and (D) Professional Liability (Errors and Omissions) Insurance, if required by the District, that covers the Services to be performed, in the minimum amount of $1,000,000 per claim and in the aggregate, with conditions and for a term acceptable to the District. Insurance carriers shall be licensed and authorized to do business in California. Such insurance carrier shall have not less than an "A:VII" rating according to the latest Best Key Rating unless otherwise approved by the District. Consultant shall add the District, its Directors, officials, officers, employees, agents, and volunteers as additional insureds on Consultant's Commercial General Liability and Automobile Liability. All insurance coverage maintained or procured pursuant to this Agreement shall be endorsed to waive subrogation against the District, its Directors, officials, officers, employees, agents, and volunteers, or shall specifically allow Consultant or others providing insurance evidence in compliance with these specifications to waive their right of recovery prior to a loss. Coverage provided by Consultant shall be primary and any insurance or self-insurance procured or maintained by the District shall not be required to contribute with it.

3.3 Fees and Payments.

3.3.1 Compensation. Consultant shall receive compensation, including authorized reimbursements, for all Services rendered under this Agreement at the rates set forth in Exhibit "B" attached hereto and incorporated herein by reference. The total compensation shall not exceed xxxx without written approval of the District's General Manager.

3.3.2 Payment of Compensation. Consultant shall submit to the District a monthly itemized statement which indicates work completed and hours of Services rendered by Consultant. The statement shall describe the amount of Services and supplies provided since the initial commencement date, or since the start of the subsequent billing periods, as appropriate, through the date of the statement. The District shall, within forty-five (45) days of receiving such statement, review the statement and pay all approved charges thereon.

3.3.3 Prevailing Wages. Consultant is aware of the requirements of California Labor Code Sections 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. If the Services are being performed as part of an applicable "public

works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is $1,000 or more, Consultant agrees to fully comply with such Prevailing Wage Laws. The District shall provide Consultant with a copy of the prevailing rates of per diem wages in effect at the commencement of this Agreement. Consultant shall make copies of the prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Services available to interested parties upon request, and post copies at the Consultant's principal place of business and at the Project site. Consultant shall defend, indemnify, and hold the District, its Directors, officials, officers, employees, agents, and volunteers free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

3.4 General Provisions.

3.4.1 Termination of Agreement.

3.4.1.1 Grounds for Termination. The District may, by written notice to Consultant, terminate the whole or any part of this Agreement at any time and without cause by giving written notice to Consultant of such termination, and specifying the effective date thereof, at least seven (7) days before the effective date of such termination. Upon termination, Consultant shall be compensated only for those services which have been adequately rendered to the District, and Consultant shall be entitled to no further compensation. Consultant may not terminate this Agreement except for cause.

3.4.1.2 Effect of Termination. If this Agreement is terminated as provided herein, the District may require Consultant to provide all finished or unfinished Documents and Data and other information of any kind prepared by Consultant in connection with the performance of Services under this Agreement. Consultant shall be required to provide such documents and other information within fifteen (15) days of the request.

3.4.2 Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective Parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Consultant: xxxx

District: Twentynine Palms Water District
Attn: Matthew Shragge
72401 Hatch Road
Twentynine Palms, CA 92277

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the Party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

3.4.3 Indemnification. Consultant shall defend, indemnify, and hold the District, its Directors, officials, officers, consultants, employees, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury, in law or equity, to property or persons, including wrongful death, in any manner arising out of or incident to any alleged acts, omissions, or willful misconduct of Consultant, its Directors, officials, officers, employees, agents, volunteers, and consultants, arising out of or in connection with the performance of the Services, the Project or this Agreement, including without limitation the payment of all consequential damages and attorneys' fees and other related costs and expenses. Consultant shall defend, at Consultant's own cost, expense, and risk, any and all such aforesaid suits, actions, or other legal proceedings of every kind that may be brought or instituted against the District, its Directors, officials, officers, consultants, employees, agents or volunteers. Consultant shall pay and satisfy any judgment, award, or decree that may be rendered against the District or its Directors, officials, officers, consultants, employees, agents, or volunteers, in any such suit, action or other legal proceeding. Consultant shall reimburse the District and its Directors, officials, officers, consultants, employees, agents, or volunteers, for any and all legal expenses and costs, including reasonable attorneys' fees, incurred by each of them in connection therewith or in enforcing the indemnity herein provided. Consultant's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by the District, its Directors, officials, officers, consultants, employees, agents, or volunteers. This section shall survive any expiration or termination of this Agreement. Notwithstanding the foregoing, to the extent Consultant's Services are subject to Civil Code Section 2782.8, the above indemnity shall be limited, to the extent required by Civil Code Section 2782.8, to claims that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Consultant.

3.4.4 Miscellaneous Terms. This is an integrated Agreement representing the entire understanding of the Parties as to those matters contained herein, and supersedes and cancels any prior oral or written understanding or representations with respect to matters covered hereunder. Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. The captions of the various paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content or intent of this Agreement. The unenforceability, invalidity or illegality of any provision(s) of this Agreement shall not render the other provisions unenforceable, invalid or illegal.

3.4.5 Assignment; Amendment. Consultant shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the District. This Agreement may not be modified or altered except in writing signed by both Parties. There are no intended third party beneficiaries of any right or obligation of the Parties.

3.4.6 Governing Law; Venue. This Agreement shall be governed by the laws of the State of California. Venue shall be in San Bernardino County. Time is of the essence for each and every provision of this Agreement.

3.4.7 District to Enter Agreement. Consultant has all requisite power and District

to conduct its business and to execute, deliver, and perform the Agreement. Each Party warrants that the individuals who have signed this Agreement have the legal power, right, and District to make this Agreement and bind each respective Party.

3.4.8 Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

[SIGNATURES ON FOLLOWING PAGE]

SIGNATURE PAGE TO

TWENTYNINE PALMS WATER DISTRICT

PROFESSIONAL SERVICES AGREEMENT

IN WITNESS WHEREOF, the Parties hereby have made and executed this Agreement as of the date first written above.

TWENTYNINE PALMS WATER DISTRICT xxxx

By: _____ By: xxxx

Title: _____ Title: xxxx

APPROVED AS TO FORM: ATTEST:

By: _____ By: _____

General Counsel Its: _____

Best Best & Krieger LLP

Appendix B

Certifications and Forms

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See http://www.dir.ca.gov/Public-Works/PublicWorks.html for additional information. No bid or proposal will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Proposer hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

Name of Proposer: _____

DIR Registration Number: _____

Proposer further acknowledges:

1. Proposer shall maintain a current DIR registration for the duration of the project or contract.

2. Proposer shall include the requirements of Labor Code sections 1725.5 and 1771.1 in any contract with subcontractors and ensure that all subcontractors are registered at the time of the proposal submittal and maintain registration status for the duration of the project.

3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Signature: _____

Name and Title: _____

Dated: _____

IRAN CONTRACTING ACT CERTIFICATION

(Public Contract Code section 2200 *et seq.*)

As required by California Public Contract Code section 2204, the Proposer certifies subject to penalty for perjury that the option checked below relating to the Proposer's status in regard to the Iran Contracting Act of 2010 (Public Contract Code section 2200 *et seq.*) is true and correct:

☐ The Proposer is not:

(i) Identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203; or

(ii) a financial institution that extends, for 45 days or more, credit in the amount of $20,000,000 or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.

☐ The District has exempted the proposer from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, the District will be unable to obtain the goods and/or services to be provided pursuant to the contract.

☐ The amount of the contract payable to the Proposer for the work does not exceed $1,000,000.

Signature:_____

Title:_____

Firm:_____

Date:_____

Note: In accordance with Public Contract Code section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of $250,000 or twice the Contract Price, termination of the Contract and/or ineligibility to bid on contracts for three years.

TWENTYNINE PALMS WATER DISTRICT

ADDENDUM 1

To
Preliminary and Final Design Engineering Services
for
Redundant Treated Water Reservoir and Booster Pump Station Project
at the Fluoride Removal Plant

The following questions were submitted to Twentynine Palms Water District (TPWD or District) after the mandatory pre-proposal meeting held on January 25, 2024:

Q1: Will addenda be counted towards the page limit?
A1: No

Q2: Twentynine Palm Water District's public purchase site does not have an area to confirm interest in this solicitation. Should there be a button of some sort that allows for this?
A2: NEED TO DISCUSS. PLEASE FIDDLE AROUND SITE TO SEE IF THIS IS AN OPTION. IT ISN'T NECESSARY, ALTHOUGH CONFIRMATION OF RECEIVING ADDENDUM IS REQUIRED.

Q3: Referencing Proposal Requirement #6, you explain that you want proof of professional registrations. Would a table with active license numbers be sufficient? Will this be counted towards the page limit?
A3: TPWD is not specific on how to communicate this information – it is up to the proposer. For example, inclusion of PE license information on individual resumes is sufficient.

Q4: Referencing Proposal Requirement #9, you explain that our reference projects should be similar in size. What do you mean by size?
A4: 'Size' refers to a project of similar construction cost to the TPWD project. As a clarification to Proposal Requirement #9, the references shall be from the project owner.

Q5: Referencing Proposal Requirements #10, 11, 13, and 14, will these forms all be counted towards the page limit?
A5: Only item 12. That information should be included in the response to Proposal Requirement #4. As a clarification to Proposal Requirement #4, the item should read, "scope of work and approach which clearly ..."

Q6: Do we need to provide proof of professional liability insurance for subs as well or just the prime?
A6: Prime only. Subs will be required to provide this information prior to performing field work on TPWD property.

Q7: Will you be utilizing the front ends specs from the Treated Water Reservoir Coatings Improvement project as guide specs?
Q8: Front end specifications provided by TPWD will be similar to previous Requests for Bid.

Q9: Will CEQA support be required for this work or will the District be responsible for the CEQA?
A9: Consultant will provide a Project Description that will be forwarded to the District's consultant responsible for the CEQA process.

Q10: Will a standby generator or connection for a standby generator be required for this project?
A10: No. New facilities will be integrated into the existing plant standby generator.

Q11: Will the District be responsible for potholing utilities? If the District is not potholing the utilities, will they be marking out the utilities?
A11: TPWD will identify all known utilities upon request from the consultant. If potholing is required, District forces will perform those services.

Q12: Please confirm that a surge analysis for the pump station will not be required for this project or can be considered optional work.
A12: Proposers should identify and describe the appropriate level of hydraulic analysis in their approach and understanding of the project.

Q13: Can a firm propose to provide only the geotechnical report?
A13: No. The Prime shall include the entire scope of work described in the RFP. This does not preclude a geotechnically-focused firm from acting as prime; however, they would need to describe how the balance of work would be performed.

Q14: Will/Can the Pre-Submittal Meeting Attendee List be made available?
A14: Yes. Pre-proposal attendees:

- Webb & Associates
- Earth Systems
- Kennedy Jenks
- Rain for Rent

Additional corrections and clarifications:

1. Fix spelling of 'flouride' on RFP title sheet to read "fluoride."

2. Project is expected to be approximately a 10-month design effort, with 2-week turnaround on TPWD reviews. Proposers shall add a schedule to their 'understanding of the project' section and will be given credit for finishing the design in less time.

3. In Proposal Requirement #3, proposers shall score higher with a more cost-effective design, not cheaper design.

4. TPWD's starting expectation for the design:

    a. The tank design is a steel tank on grade.
    b. The power feed to the existing pumps will be used to feed the new pumps, which will not coincidentally operate.
    c. Valves will all be manual valves with position indication to SCADA only, pumps can be started locally or remotely from SCADA, include standard protection alarms and interlocks.

5. Disregard the "EXTENT OF SURVEY" area in the RFP graphic. Proposer will describe the extent of survey appropriate to this project in their understanding of the project.

6. Resumes are not included in the 20-page maximum.

7. After scoring proposals, TPWD reserves the right to conduct interviews with proposers. This decision will be made at the District's discretion.

END OF ADDENDUM 1

4

TWENTYNINE PALMS WATER DISTRICT

72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277-2935
760.367.7546 PHONE 760.367.6612 FAX

TO:	BOARD OF DIRECTORS
DATE:	MARCH 18. 2024
FROM:	MATTHEW SHRAGGE, GENERAL MANAGER
SUBJECT:	FORMATION OF AD HOC COMMITTEE FOR EMPLOYEE MOU (MEMORANDUM OF UNDERSTANDING) CONTRACT

BACKGROND

Ad Hoc is a word that originally comes from Latin and means "for this" or "for this situation." It is used to describe something that has been formed or used for a special and immediate purpose, without previous planning.

In late January 2024, our Local 1902 AFSCME (American Federation of State, County, and Municipal Employees) Union reached out to staff with a letter to renegotiate a successor MOU. In the letter the Union would like to discuss a multi-year contract, wages, classifications, and employee benefits.

District staff believes that in good faith, transparency, and the best interest of the District, it would be beneficial to form such Ad Hoc Committee while renegotiating a successor MOU. The two members from the Board of Directors, District management staff, along with employees Union, can work together on creating the most beneficial MOU contract for not only the employees but the District as a whole.

RECOMMENDATION

Staff is making the recommendation that the Board of Directors approve the formation of an Ad Hoc Committee.

5

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE TWENTYNINE PALMS WATER DISTRICT 72401 HATCH ROAD, TWENTYNINE PALMS, CA 92277

February 28, 2024 / 4:00 P.M.

Call to Order and Roll Call
President Carol Giannini called the Board meeting to order at 4:00 p.m. Those responding to roll call were Michael Arthur, Bob Coghill, Carol Giannini, Randy Leazer, and Amy Woods. Also present were General Manager Matt Shragge, Maintenance Superintendent Mike Minatrea, Treatment/Production Superintendent Robert Shelton, and District Secretary Cindy Fowlkes. Financial Consultant Cindy Byerrum was absent.

Pledge of Allegiance
Amy Bowe led the pledge.

Additions/Deletions to the Agenda
None

Public Comments
None

1. Appoint a Representative and Alternate to the Association of California Water Agencies Joint Powers Insurance Authority (ACWA JPIA)
   Per the contract with ACWA JPIA, the District is required to assign a representative and an alternate to the JPIA. This role has been vacated with the resignation of Director Horn. Staff recommends that the General Manager serve as the alternate.

   Director Gianni made a motion to appoint Director Arthur as the representative and the General Manager as the alternate, seconded by Director Woods, and approved unanimously.

2. Discussion of Inactive Meters
   Staff is looking for direction on the possible inclusion of inactive meter fees in the next rate study. The District has 777 inactive meters. The District is losing approximately $170,000 a year in fees. Under Proposition 218, property owners have to be notified and public comments allowed.

   After discussion, the Board was in agreement to include inactive meters in the next rate study in 2025

3. Consent Calendar

   - Minutes of a Regular Meeting held on January 24, 2024
   - Audit List

   Director Woods moved to approve the Minutes and Audit List, seconded by Director Coghill, and approved unanaimously.

4. Items Removed from the Consent Calendar for Discussion or Separate Action
   None
5. Management Reports

   5.1 Maintenance

Mike Minatrea reported that the District responded to 70 Underground Service Alerts, had 0 water main leaks, 0 water meter leaks, 0 service line leaks, 1 fire hydrant repair/maintenance, installed 0 new services, replaced 0 customer gate valves, performed 4 leak audits, painted 0 fire hydrants, performed 7 customer pressure checks, replaced 1 water meter, Tested and exercised emergency generators and sounded wells for January. 0 water waste inquiries were received. 0 AMI/AMR meters were replaced. There was a total of 640 work orders that were processed during the month. In the month of January, 312,000 gallons of water was purchased from the paymeter station.

5.2 Water Quality

Robert reported water production was down 18.89% as compared to the same month in 2013. 40 routine and 9 special water samples were taken. All special samples tested negative for Colilert. All current wells meet the 2.0 mg/L standard fluoride variance set by the State Water Resource Control Board. All samples tested were below the variance.

5.3 Finance

Matt reported the budget was tracking as expected with non-operating revenue at 57% and expenditures at 50%. The CLASS account is performing favorably.

5.4 General Manager

Matt reported the excavator trailer has been ordered. The District received two proposals for the redundant reservoir and booster pump station at the Treatment Plant. The first draft of Local Hazard Mitigation Plan (LHMP) is close to being completed. LHMP will be posted for public comment. New Hires attended SEMS/NIMS 100/700 training. The state mandated led and copper inventory/survey is 70% completed. Director Leazer was thanked for calling in the hit and run fire hydrant on Adobe Road. Matt also thanked City employees Cory and Craig for their assistance, as well as, Mike and Robert for expeditiioulsy shutting down the line and limiting water loss.

6. Future Agenda Items and Staff Tasks/Directors' Comments and Reports

Director Woods would like to see a more detailed report on inactive meters at a later date.

7. Adjournment

On motion by Director Leazer, seconded by Director Arthur, and approved by the Board, the meeting was adjourned at: 4:31 p.m.

_____

Carol Giannini, President
Board of Directors

Attest:

_____

Matthew Shragge, Board Secretary
Twentynine Palms Water District

Twentynine Palms Water District

Check Date Range: 2/1/2024 thru 2/29/2024

Ck No	Ck Date	Payable To	Ck Amt	Ck Detail	GL Acct No	Description
21777	02/05/2024	WCT Products	2,502.90	2,502.90	100-130-0000-5228	VM-880 Ferromagnetic Locator With Carry Bag
21778	02/06/2024	ESG Engineering, Inc.	4,295.40	4,295.40	100-825-0000-6001	Engineering Services
21779	02/08/2024	WRM Freight	1,860.00	1,860.00	100-130-0000-5406	WRM Freight-Wade Mitchell K-5 Daniel Bass DMV, CDL Training Clas
43560	02/14/2024	Jeff Arwick	1,350.00	575.00	100-110-0000-5406	Repair Flow Meter Conduit well 14, Install 2 New Led Wall Pack F
				775.00	100-120-0000-5406	Replaced Eaton EMA91 Soft Start Digital Interface Module
87124	02/14/2024	ACWA/JPIA	33,388.65	1,872.01	100-310-0000-5144	Health Benefits March 2024
				475.31	100-310-0000-5142	Health Benefits March 2024
				29,258.69	100-310-0000-5140	Health Benefits March 2024
				1,782.64	100-310-0000-5141	Health Benefits March 2024
43564	02/14/2024	Autozone Inc.	393.01	177.69	100-130-0000-5220	Shop Supplies-Diesel Exhaust Fluid and Grease.
				215.32	100-130-0000-5222	Veh. #13-Battery w/Chain and Bar Lubricant.
43566	02/14/2024	Customer Refund	46.54	23.27	100-000-0000-2000	Refund Check 006271-000, 1124 Valley View Road
				23.27	100-000-0000-2000	Refund Check 006271-000, 1124 Valley View Road
43568	02/14/2024	Best Best & Krieger	707.70	33.70	100-600-0000-5403	Professional Services Jan 2024
				674.00	100-600-0000-5403	Professional Services Jan 2024
43570	02/14/2024	Beyond Software Solutions	2,235.00	1,235.00	100-600-0000-5406	IT Consulting
				1,000.00	100-600-0000-5406	IT Consulting
283218	02/14/2024	Builders Supply - 29 Palms	464.23	23.86	100-130-0000-5220	K21 Doug Fir 2x4x10, Chip Brush
				94.74	100-130-0000-5220	Rebar 1/2" x 20' #4 Grade 60
				7.53	100-130-0000-5220	5QT Multimix All Storage Container
				19.35	100-130-0000-5220	Galvanized Square head Plug
				3.51	100-130-0000-5220	Dobie Brick Wire
				13.99	100-130-0000-5220	Simple Green
				58.12	100-130-0000-5220	1209 6V Heavy Duty Lantern Battery
				(62.61)	100-130-0000-5220	credit
				16.34	100-130-0000-5220	Shop Supplies-Tie Downs.
				26.48	100-130-0000-5220	Brass Boiler Drain Valve 3/4" x 1/2"
				118.41	100-130-0000-5220	Rebar 1/2 x 20' #4 Grade 60
				55.09	100-130-0000-5220	Shop Supplies-Hammer and Nuts and Bolts.
				89.42	100-130-0000-5220	Shop Supplies-Garden Hose.

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43574	02/14/2024	Burrtec Waste & Recycling Svcs	274.14	82.67	100-150-0000-5406	Plant
				191.47	100-600-0000-5406	Hatch
21788	02/14/2024	Core & Main LP	669.69	669.69	100-000-0000-1499	CORP STOP 2 in MIP X CTS
43578	02/14/2024	Desert Ace Hardware	59.68	11.60	100-130-0000-5220	Puttly Knife Poly, Paint
				48.08	100-130-0000-5220	Shop Supplies-Drill Bits.
43580	02/14/2024	Customer Refund	183.43	91.71	100-000-0000-2000	Refund Check 029989-000, 69452 El Sereno Road
				91.72	100-000-0000-2000	Refund Check 029989-000, 69452 El Sereno Road
21791	02/14/2024	E.H. Wachs	468.15	468.15	100-130-0000-5222	Veh. #40-Vacuum Parts.
21792	02/14/2024	Eide Bailly LLP	7,229.00	7,229.00	100-600-0000-5401	Consulting Services December 2023
21793	02/14/2024	Ellison Systems Inc. Shoplet.Com	243.32	243.32	100-600-0000-5301	Office Supplies
21794	02/14/2024	Fedex	6,350.00	6,350.00	100-150-0000-5406	Media Shipping Only 40,144 LBS
21795	02/14/2024	Frontier Communications	204.50	204.50	100-150-0000-5203	Plant
21796	02/14/2024	Grainger	221.88	221.88	100-150-0000-5220	Acid Neutralizer 5, Gallon Granular
43594	02/14/2024	Customer Refund	157.45	78.72	100-000-0000-2000	Refund Check 029052-001, 73058 Sun Valley Drive
				78.73	100-000-0000-2000	Refund Check 029052-001, 73058 Sun Valley Drive
43596	02/14/2024	Customer Refund	179.10	89.55	100-000-0000-2000	Refund Check 029540-000, 6626 Persia Avenue
				89.55	100-000-0000-2000	Refund Check 029540-000, 6626 Persia Avenue
21799	02/14/2024	High Desert Mtn. Water Assoc.	100.00	100.00	100-130-0000-5330	Distribution Review Class - Matthew Romero
21800	02/14/2024	High Desert Mtn. Water Assoc.	100.00	100.00	100-130-0000-5330	Distribution Review Class - Easton Cobb
21801	02/14/2024	High Desert Mtn. Water Assoc.	100.00	100.00	100-130-0000-5330	Distribution Review Class - Danny Bass
174416	02/14/2024	Kennedy/Jenks Consultants	18,577.60	1,485.75	100-800-0000-6001	Professional Services Jan 2024
				1,880.00	100-600-0000-5412	Professional Services Aug 2023
				4,512.50	100-800-0000-6001	Professional Services Jan 2024
				5,252.50	100-800-0000-6001	Professional Services Jan 2024
				558.75	100-800-0000-6001	Professional Services Jan 2024
				1,365.00	100-600-0000-5412	Professional Services Nov 2023
				3,108.75	100-150-0000-5406	Professional Services Jan 2024
				414.35	100-825-0000-6001	Professional Services Jan 2024
43606	02/14/2024	Customer Refund	230.30	137.13	100-000-0000-2000	Refund Check 021919-004, 5575 Cahuilla Avenue
				93.17	100-000-0000-2000	Refund Check 021919-004, 5575 Cahuilla Avenue
21804	02/14/2024	Legend Pump & Well Service	2,150.00	2,150.00	100-120-0000-5406	Video Log Well #6, Well # 4.
43610	02/14/2024	Customer Refund	187.38	93.70	100-000-0000-2000	Refund Check 030741-005, 73471 Corbin Road

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				93.68	100-000-0000-2000	Refund Check 030741-005, 73471 Corbin Road
43612	02/14/2024	Customer Refund	187.94	93.96	100-000-0000-2000	Refund Check 030741-003, 6283 Daisy Avenue
				93.98	100-000-0000-2000	Refund Check 030741-003, 6283 Daisy Avenue
21807	02/14/2024	McMaster-Carr Supply Co.	395.00	395.00	100-150-0000-5220	Pleated Panel Air Filter 108.17 x2, Hex L-Key 9.06 x 1, Hex L-
21808	02/14/2024	Minolta Business Systems	49.58	49.58	100-600-0000-5223	01/10/2024 - 01/31/2024
21809	02/14/2024	MM Internet, Inc.	143.69	143.69	100-600-0000-5203	02/01/2024 - 03/01/2024
43620	02/14/2024	Customer Refund	41.11	20.56	100-000-0000-2000	Refund Check 027894-000, 74108 Cactus Wren Court
				20.55	100-000-0000-2000	Refund Check 027894-000, 74108 Cactus Wren Court
109055	02/14/2024	O'Reilly Automotive Inc.	388.41	99.81	100-130-0000-5222	Veh. #13-Turn Signal/Hazard Switch.
				41.35	100-130-0000-5222	Veh. #76-Wiper Blades.
				129.21	100-130-0000-5220	Shop Supplies-Deisel Fuel Additive.
				62.16	100-130-0000-5220	Shop Supplies-Fuses.
				55.88	100-130-0000-5220	Shop Supplies-Light Bulbs.
545300	02/14/2024	Pacific Western Bank	8,749.61	57.97	100-800-0000-6001	Charges
				388.43	100-160-0000-5301	Charges
				147.89	100-130-0000-5222	Charges
				132.00	100-600-0000-5406	Charges
				288.82	100-130-0000-5222	Charges
				112.60	100-130-0000-5220	Charges
				5.00	100-600-0000-5406	Charges
				36.22	100-600-0000-5301	Charges
				153.06	100-150-0000-5220	Charges
				(25.08)	100-600-0000-5406	Charges
				16.15	100-600-0000-5406	Charges
				95.64	100-600-0000-5203	Charges
				94.39	100-150-0000-5220	Charges
				498.09	100-800-0000-6001	Charges
				145.64	100-150-0000-5203	Charges
				373.90	100-150-0000-5220	Charges
				323.22	100-875-0000-6001	Charges
				424.11	100-130-0000-5220	Charges
				157.79	100-130-0000-5220	Charges

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				700.00	100-600-0000-5406	Charges
				146.51	100-600-0000-5302	Charges
				258.59	100-875-0000-6001	Charges
				11.84	100-600-0000-5301	Charges
				8.71	100-600-0000-5406	Charges
				4,198.12	100-875-0000-6001	Charges
21813	02/14/2024	Proforma	308.27	308.27	100-600-0000-5301	Letterhead/Second sheets
87256	02/14/2024	Prudential Overall Supply	794.09	135.30	100-130-0000-5253	Uniforms
				135.31	100-130-0000-5253	Uniforms
				168.59	100-130-0000-5253	Uniforms
				354.89	100-130-0000-5253	Uniforms
174520	02/14/2024	S.C.E.	18,086.89	4,715.67	100-120-0000-5201	Booster TP-1
				3,473.69	100-110-0000-5201	Well 14
				821.26	100-110-0000-5201	Well 1
				5,012.70	100-110-0000-5201	Well 17
				38.09	100-110-0000-5201	Donnell
				640.82	100-120-0000-5201	Booster H1N, H2S
				2,245.84	100-110-0000-5201	Well 16
				1,138.82	100-600-0000-5201	Hatch
21816	02/14/2024	San Bernardino County	18.00	18.00	100-130-0000-5301	Monthly Assessor parcel map revisions Feb 2024
21817	02/14/2024	Satmodo LLC	164.26	164.26	100-600-0000-5203	Iridium Monthly Minute Plans
43636	02/14/2024	Customer Refund	42.07	21.04	100-000-0000-2000	Refund Check 023981-002, 5323 Cahuilla Avenue
				21.03	100-000-0000-2000	Refund Check 023981-002, 5323 Cahuilla Avenue
43638	02/14/2024	Springbrook Holding Company LLC	6,533.00	3,237.00	100-600-0000-5408	CivicPay Transaction Fee Dec 2023
				3,296.00	100-600-0000-5408	CivicPay Transaction Fee Jan 2024
21820	02/14/2024	Bob Stephenson	250.00	250.00	100-610-0000-5350	Video Recording Board Meeting
43642	02/14/2024	Customer Refund	180.20	90.10	100-000-0000-2000	Refund Check 027566-001, 6621 Ivanpah Avenue
				90.10	100-000-0000-2000	Refund Check 027566-001, 6621 Ivanpah Avenue
21822	02/14/2024	Sturdivan Emergency Management Consulting	6,071.32	6,071.32	100-800-0000-6001	Update Hazard Mitigaiton Plan.
21823	02/14/2024	SWRCB-DWOCP	60.00	60.00	100-130-0000-5242	D2 Certification Request - Weber
21824	02/14/2024	SWRCB-DWOCP	70.00	70.00	100-130-0000-5242	D1 Certification Request/Rainey
43650	02/14/2024	Underground Service Alert	151.62	109.75	100-130-0000-5406	57 New Tickets

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				41.87	100-130-0000-5406	Calif State Fee for Regulatory Costs
21826	02/14/2024	UPS	166.50	166.50	100-600-0000-5302	Shipping
130962	02/14/2024	Usa Blue Book	1,482.99	75.43	100-150-0000-5220	Scienceware Vented Bottles 500 mL 4 Pack
				337.12	100-130-0000-5220	Spray Paint Inverted Paint Blue Case Of 12
				231.15	100-120-0000-5220	Insulated Blanket FG-4 46" L x 28.5"H Hansen North Booster Pump
				127.51	100-130-0000-5220	Industrial Choice Spray Paint
				563.24	100-150-0000-5220	Fluoride ISE Electrode
				148.54	100-120-0000-5220	Insulated Blanket FG-2 30"Lx22.5"H Hansen Booster Pump South
21828	02/14/2024	Customer Refund	65.00	65.00	100-130-0000-5242	D2 Test Fee Reimbursement
21829	02/14/2024	Wells Tapping Service, Inc.	14,450.00	14,450.00	100-850-0000-6001	6" Insta Valve x2 Oasis/Outter Hwy 62 and Split Rock/Old Dale.
43660	02/14/2024	Customer Refund	8.59	4.30	100-000-0000-2000	Refund Check 027423-000, 6749 Morongo Road
				4.29	100-000-0000-2000	Refund Check 027423-000, 6749 Morongo Road
65493	02/28/2024	Customer Refund	100.51	25.25	100-000-0000-2000	Refund Check 030478-000, 69002 Two MIle Road
				50.00	100-000-0000-2000	Refund Check 030478-000, 69002 Two MIle Road
				25.26	100-000-0000-2000	Refund Check 030478-000, 69002 Two MIle Road
43664	02/28/2024	Customer Refund	137.28	68.64	100-000-0000-2000	Refund Check 020907-001, 5323 Encelia Avenue
				68.64	100-000-0000-2000	Refund Check 020907-001, 5323 Encelia Avenue
65499	02/28/2024	Customer Refund	90.54	50.00	100-000-0000-2000	Refund Check 030567-000, 73757 Sunnyslope Drive
				20.27	100-000-0000-2000	Refund Check 030567-000, 73757 Sunnyslope Drive
				20.27	100-000-0000-2000	Refund Check 030567-000, 73757 Sunnyslope Drive
43668	02/28/2024	Customer Refund	174.22	87.11	100-000-0000-2000	Refund Check 025315-001, 5944 Cahuilla Avenue
				87.11	100-000-0000-2000	Refund Check 025315-001, 5944 Cahuilla Avenue
43670	02/28/2024	Customer Refund	179.83	89.92	100-000-0000-2000	Refund Check 029451-000, 72068 Sunnyslope Drive
				89.91	100-000-0000-2000	Refund Check 029451-000, 72068 Sunnyslope Drive
21836	02/28/2024	Ansafone Contact Centers	464.56	464.56	100-160-0000-5406	01/15/2021 - 02/11/2024
43674	02/28/2024	Autozone Inc.	342.46	339.34	100-130-0000-5222	Veh. # 11-Spark Plugs, Air Filter, Trans. Filter Kit, Belt Tensi
				3.12	100-130-0000-5220	Shop Supplies-Fender Washers.
43676	02/28/2024	Customer Refund	192.20	96.10	100-000-0000-2000	Refund Check 023225-025, 7058 Woodward Ave
				96.10	100-000-0000-2000	Refund Check 023225-025, 7058 Woodward Ave
43678	02/28/2024	Customer Refund	187.34	92.99	100-000-0000-2000	Refund Check 028969-000, 7463 Persia Avenue
				94.35	100-000-0000-2000	Refund Check 028969-000, 7463 Persia Avenue
43680	02/28/2024	Burrtec Waste & Recycling Svcs	274.14	191.47	100-600-0000-5406	Hatch

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				82.67	100-150-0000-5406	Plant
43682	02/28/2024	Customer Refund	166.84	83.42	100-000-0000-2000	Refund Check 030913-000, 73444 Friendy Lane
				83.42	100-000-0000-2000	Refund Check 030913-000, 73444 Friendy Lane
21842	02/28/2024	Customer Refund	9.66	9.66	100-000-0000-2000	Refund Check 025961-000, 72143 29 Palms Hwy.
43686	02/28/2024	Customer Refund	17.62	8.81	100-000-0000-2000	Refund Check 029442-000, 73511 29 Palms Hwy.
				8.81	100-000-0000-2000	Refund Check 029442-000, 73511 29 Palms Hwy.
43688	02/28/2024	Customer Refund	182.49	91.24	100-000-0000-2000	Refund Check 030162-001, 72186 Sunnyslope Drive
				91.25	100-000-0000-2000	Refund Check 030162-001, 72186 Sunnyslope Drive
43690	02/28/2024	Customer Refund	141.45	70.73	100-000-0000-2000	Refund Check 029554-000, 73090 Sunnyvale Drive
				70.72	100-000-0000-2000	Refund Check 029554-000, 73090 Sunnyvale Drive
21846	02/28/2024	Centurylink Business Services	23.01	23.01	100-600-0000-5203	Hatch
43694	02/28/2024	Clinical Lab of San Bern.	6,123.00	4,593.00	100-140-0000-5405	Water Samples
				1,530.00	100-140-0000-5405	Quarterly City Wells - 4QCMW 2023
21848	02/28/2024	Code Publishing Company	322.00	322.00	100-600-0000-5303	Municipal Code - Traditional Supplement
43698	02/28/2024	Customer Refund	157.63	78.81	100-000-0000-2000	Refund Check 029214-000, 5760 La Buena Tierra
				78.82	100-000-0000-2000	Refund Check 029214-000, 5760 La Buena Tierra
43700	02/28/2024	Customer Refund	46.00	23.00	100-000-0000-2000	Refund Check 010733-000, 72555 Larrea Avenue
				23.00	100-000-0000-2000	Refund Check 010733-000, 72555 Larrea Avenue
21851	02/28/2024	Community Water Systems Alliance	2,500.00	2,500.00	100-600-0000-5350	Monthly Anchor Level Sponsorship Jan 2024
196668	02/28/2024	County Of San Bernardino	3,022.25	411.37	100-150-0000-5406	Media Change Out Waste 6.69
				433.50	100-150-0000-5406	Media Change Out Waste 7.05
				13.54	100-130-0000-5406	Garden Waste
				440.27	100-150-0000-5406	Media Change Out Waste 7.16
				13.54	100-130-0000-5406	Garden Waste
				382.47	100-150-0000-5406	Media Change Out Waste 6.22
				372.01	100-150-0000-5406	Media Change Out Waste 6.05
				443.34	100-150-0000-5406	Media Change Out Waste 7.21 Tons
				512.21	100-150-0000-5406	Media Change Out Waste 8.33
43706	02/28/2024	Customer Refund	186.83	93.42	100-000-0000-2000	Refund Check 026648-001, 5902 Regino Street
				93.41	100-000-0000-2000	Refund Check 026648-001, 5902 Regino Street
43708	02/28/2024	Customer Refund	395.51	205.31	100-000-0000-2000	Refund Check 018339-001, 5639 Encelia Avenue
				190.20	100-000-0000-2000	Refund Check 018339-001, 5639 Encelia Avenue

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43710	02/28/2024	Customer Refund	25.75	12.88	100-000-0000-2000	Refund Check 005334-000, 69525 Cielito Drive
				12.87	100-000-0000-2000	Refund Check 005334-000, 69525 Cielito Drive
43712	02/28/2024	Desert Ace Hardware	44.17	30.16	100-130-0000-5220	Combo Hose 2.5"
				14.01	100-130-0000-5220	WD 40 Smart Straw x2
43714	02/28/2024	Customer Refund	147.40	73.70	100-000-0000-2000	Refund Check 030728-000, 72115 29 Palms Hwy.
				73.70	100-000-0000-2000	Refund Check 030728-000, 72115 29 Palms Hwy.
43716	02/28/2024	E.H. Wachs	1,229.50	118.81	100-130-0000-5222	Veh. #40 - Mounting Bracket.
				1,110.69	100-130-0000-5222	Veh. #40 - Chain, Gears, Bearings and associated parts for final
43718	02/28/2024	Customer Refund	115.17	57.58	100-000-0000-2000	Refund Check 014386-000, 5973 Baileya Avenue
				57.59	100-000-0000-2000	Refund Check 014386-000, 5973 Baileya Avenue
43720	02/28/2024	Customer Refund	2.95	1.47	100-000-0000-2000	Refund Check 023565-003, 5633 Abronia Avenue
				1.48	100-000-0000-2000	Refund Check 023565-003, 5633 Abronia Avenue
43722	02/28/2024	Customer Refund	4.42	2.21	100-000-0000-2000	Refund Check 031015-000, 5787 Cholla Avenue
				2.21	100-000-0000-2000	Refund Check 031015-000, 5787 Cholla Avenue
43724	02/28/2024	Customer Refund	191.25	95.63	100-000-0000-2000	Refund Check 026853-001, 73431 El Paseo Drive
				95.62	100-000-0000-2000	Refund Check 026853-001, 73431 El Paseo Drive
87452	02/28/2024	Home Depot Credit Services	2,990.63	690.55	100-130-0000-5222	Charges
				419.15	100-130-0000-5222	Charges
				614.56	100-150-0000-5220	Charges
				1,266.37	100-130-0000-5220	Charges
43728	02/28/2024	Customer Refund	48.38	24.19	100-000-0000-2000	Refund Check 016861-000, 73550 -54 29 Palms Hwy.
				24.19	100-000-0000-2000	Refund Check 016861-000, 73550 -54 29 Palms Hwy.
43730	02/28/2024	Customer Refund	185.91	92.95	100-000-0000-2000	Refund Check 029263-000, 5753 La Luna Avenue
				92.96	100-000-0000-2000	Refund Check 029263-000, 5753 La Luna Avenue
21866	02/28/2024	Kennedy/Jenks Consultants	3,120.00	3,120.00	100-600-0000-5412	Professional Services Jan 2024
21867	02/28/2024	Inland Kenworth	291.85	291.85	100-130-0000-5222	Veh. #76 - Air Brake Parking Brake Valve Assembly.
43736	02/28/2024	Customer Refund	14.65	7.32	100-000-0000-2000	Refund Check 023182-000, 6432 Adobe Road
				7.33	100-000-0000-2000	Refund Check 023182-000, 6432 Adobe Road
43738	02/28/2024	Customer Refund	195.14	97.57	100-000-0000-2000	Refund Check 031117-000, 73654 Playa Vista Drive
				97.57	100-000-0000-2000	Refund Check 031117-000, 73654 Playa Vista Drive
21870	02/28/2024	Coralyn Lawrence	175.00	175.00	100-600-0000-5406	Bee Removal
43742	02/28/2024	Customer Refund	44.94	22.47	100-000-0000-2000	Refund Check 030008-000, 7770 North Star Avenue

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				22.47	100-000-0000-2000	Refund Check 030008-000, 7770 North Star Avenue
43744	02/28/2024	Customer Refund	20.90	10.45	100-000-0000-2000	Refund Check 007466-427, 6612 Quail Springs
				10.45	100-000-0000-2000	Refund Check 007466-427, 6612 Quail Springs
43746	02/28/2024	Customer Refund	34.80	17.40	100-000-0000-2000	Refund Check 007466-428, 73542 Didsbury Road
				17.40	100-000-0000-2000	Refund Check 007466-428, 73542 Didsbury Road
43748	02/28/2024	Customer Refund	188.22	89.78	100-000-0000-2000	Refund Check 015874-014, 6724 El Sol Avenue
				98.44	100-000-0000-2000	Refund Check 015874-014, 6724 El Sol Avenue
43750	02/28/2024	Customer Refund	174.22	87.11	100-000-0000-2000	Refund Check 030741-004, 73223 Sun Valley Drive
				87.11	100-000-0000-2000	Refund Check 030741-004, 73223 Sun Valley Drive
43752	02/28/2024	Customer Refund	184.07	92.04	100-000-0000-2000	Refund Check 030741-007, 5183 Split Rock Avenue
				92.03	100-000-0000-2000	Refund Check 030741-007, 5183 Split Rock Avenue
43754	02/28/2024	Customer Refund	160.23	80.12	100-000-0000-2000	Refund Check 028881-000, 2740 Bagdad Highway
				80.11	100-000-0000-2000	Refund Check 028881-000, 2740 Bagdad Highway
43756	02/28/2024	Customer Refund	120.49	60.25	100-000-0000-2000	Refund Check 027297-000, 6541 La Luna Avenue
				60.24	100-000-0000-2000	Refund Check 027297-000, 6541 La Luna Avenue
21879	02/28/2024	Mark Speer Automotive	30.00	30.00	100-130-0000-5407	Veh. #84 - Tire Repair.
43760	02/28/2024	Customer Refund	190.15	95.07	100-000-0000-2000	Refund Check 030678-001, 1476 Hales Drive
				95.08	100-000-0000-2000	Refund Check 030678-001, 1476 Hales Drive
43762	02/28/2024	Customer Refund	194.48	97.24	100-000-0000-2000	Refund Check 030678-000, 614 Highnoon Avenue
				97.24	100-000-0000-2000	Refund Check 030678-000, 614 Highnoon Avenue
43764	02/28/2024	Customer Refund	194.48	97.24	100-000-0000-2000	Refund Check 030678-002, 1020 Shoshone Valley
				97.24	100-000-0000-2000	Refund Check 030678-002, 1020 Shoshone Valley
43766	02/28/2024	Customer Refund	190.70	95.36	100-000-0000-2000	Refund Check 028511-001, 4355 Lear Avenue
				95.34	100-000-0000-2000	Refund Check 028511-001, 4355 Lear Avenue
109420	02/28/2024	McMaster-Carr Supply Co.	671.88	128.56	100-130-0000-5220	6" High Bounce-Back Marking Flags, Blue, Packs Of 25 x8=59.84. N
				35.46	100-130-0000-5220	Adhesive-Back Tank-Level Ruler 50" Long
				174.22	100-130-0000-5220	Distance - Measuring Wheel 36" Wheel Circumference.
				207.49	100-130-0000-5220	Asbestos Waste Bags 55 Gallon Capacity Pack of 40
				126.15	100-130-0000-5220	Angle Grinder Cutoff Wheel 4 1/2 " Diameter
43770	02/28/2024	Customer Refund	147.13	73.56	100-000-0000-2000	Refund Check 030658-000, 6012 Regino Street
				73.57	100-000-0000-2000	Refund Check 030658-000, 6012 Regino Street
43772	02/28/2024	Customer Refund	148.70	74.35	100-000-0000-2000	Refund Check 030647-000, 7007 Alpine Avenue

Twentynine Palms Water District

Check Date Range: 2/1/2024 thru 2/29/2024

				74.35	100-000-0000-2000	Refund Check 030647-000, 7007 Alpine Avenue
21887	02/28/2024	Customer Refund	46.77	46.77	100-000-0000-2000	Refund Check 005322-000, 69666 Valle Vista Road
21888	02/28/2024	NorthStar Chemical	9,842.71	9,842.71	100-150-0000-5211	Load Of Acid 3,200 Gallons NSF 60
43778	02/28/2024	Customer Refund	109.73	54.86	100-000-0000-2000	Refund Check 029820-000, 7481 Araby Avenue
				54.87	100-000-0000-2000	Refund Check 029820-000, 7481 Araby Avenue
43780	02/28/2024	Customer Refund	106.97	53.48	100-000-0000-2000	Refund Check 030486-000, 6616 El Rey Avenue
				53.49	100-000-0000-2000	Refund Check 030486-000, 6616 El Rey Avenue
87564	02/28/2024	Orange County Winwater Works	3,115.82	2,651.63	100-000-0000-1499	ANGLE METER STOP 2 IN FIP X FLANG
				108.62	100-130-0000-5220	6 " NONASB 1/16 150 # RING GSK
				107.75	100-000-0000-1499	1 in SCHEDULE 40 PVC PIPE
				247.82	100-000-0000-1499	2 in SCHEDULE 40, PVC PIPE
43784	02/28/2024	O'Reilly Automotive Inc.	40.37	18.83	100-130-0000-5222	Veh. #25 - A/C Control Relay.
				21.54	100-130-0000-5220	Shop Supplies - Screw Driver Set.
21893	02/28/2024	Palm Springs Motors Inc.	198.88	198.88	100-130-0000-5220	Shop Supplies-Oil Filters.
43788	02/28/2024	Customer Refund	170.62	85.31	100-000-0000-2000	Refund Check 029597-000, 6242 Mariposa Avenue
				85.31	100-000-0000-2000	Refund Check 029597-000, 6242 Mariposa Avenue
21895	02/28/2024	Pitney Bowes Global Financial Services LLC	460.49	460.49	100-600-0000-5223	12/30/2023 - 03/29/2024
21896	02/28/2024	Pitney Bowes Postage By Phone	99.25	99.25	100-600-0000-5302	Postage Machine
43794	02/28/2024	Proforma	5,490.53	2,062.80	100-160-0000-5301	Return Envelopes
				3,427.73	100-160-0000-5301	Window Envelopes with Permit
87592	02/28/2024	Prudential Overall Supply	766.24	103.30	100-130-0000-5253	Uniforms
				381.35	100-130-0000-5253	Uniforms
				109.85	100-130-0000-5253	Uniforms
				171.74	100-130-0000-5253	Uniforms
21899	02/28/2024	Customer Refund	464.98	464.98	100-130-0000-5330	Distribution Grade 2 Course Reimbursement
21900	02/28/2024	Powerplan OIB Rdo Trust #80-5800	353.00	353.00	100-130-0000-5222	Veh. #35-New Bucket Blade w/Nuts and Bolts.
21901	02/28/2024	Customer Refund	4.25	4.25	100-000-0000-2000	Refund Check 030821-000, 6344 Palm View Avenue
43804	02/28/2024	Customer Refund	181.27	90.64	100-000-0000-2000	Refund Check 029192-000, 5942 La Buena Tierra
				90.63	100-000-0000-2000	Refund Check 029192-000, 5942 La Buena Tierra
21903	02/28/2024	Customer Refund	464.98	464.98	100-130-0000-5330	Reimbursement D2 Class
175232	02/28/2024	S.C.E.	10,918.54	1,171.12	100-120-0000-5201	Booster 11A, 11B
				1,577.39	100-120-0000-5201	Well 12

Twentynine Palms Water District

Check Date Range: 2/1/2024 thru 2/29/2024

				37.56	100-120-0000-5201	D.H. Resv & Hydro
				2,290.34	100-120-0000-5201	Booster Lupine
				1,053.22	100-110-0000-5201	Well 11
				2,547.78	100-120-0000-5201	Booster Two Mile
				690.91	100-110-0000-5201	Well 15
				1,550.22	100-120-0000-5201	Booster Sullivan
21905	02/28/2024	Safety-Kleen Systems Inc.	391.88	391.88	100-130-0000-5406	Parts Washer Service.
21906	02/28/2024	Satmodo LLC	164.26	164.26	100-600-0000-5203	Iridium Monthly Minute Plans
21907	02/28/2024	Susan L. Simmons	1,800.00	1,800.00	100-600-0000-5406	Janitorial Services Mar 2024
43816	02/28/2024	Customer Refund	117.84	58.92	100-000-0000-2000	Refund Check 030707-000, 71526 Sunnyvale Drive
				58.92	100-000-0000-2000	Refund Check 030707-000, 71526 Sunnyvale Drive
43818	02/28/2024	Customer Refund	175.23	87.61	100-000-0000-2000	Refund Check 030265-000, 6182 Mojave Avenue
				87.62	100-000-0000-2000	Refund Check 030265-000, 6182 Mojave Avenue
43820	02/28/2024	Customer Refund	121.53	60.77	100-000-0000-2000	Refund Check 028355-000, 6997 49 Palms Avenue
				60.76	100-000-0000-2000	Refund Check 028355-000, 6997 49 Palms Avenue
43822	02/28/2024	SoCal JCB	434.19	207.00	100-130-0000-5222	Veh. #82 - Filters for service.
				227.19	100-130-0000-5222	Veh. #82 - Filters for service.
21912	02/28/2024	Southern Calif. Gas Co.	340.93	340.93	100-600-0000-5202	Hatch
21913	02/28/2024	Spectrum Enterprise	1,235.00	1,235.00	100-600-0000-5203	La Luna
43828	02/28/2024	Customer Refund	170.64	85.32	100-000-0000-2000	Refund Check 029888-000, 5412 Mariposa Avenue
				85.32	100-000-0000-2000	Refund Check 029888-000, 5412 Mariposa Avenue
43830	02/28/2024	Customer Refund	160.68	80.34	100-000-0000-2000	Refund Check 030248-000, 5474 Cahuilla Avenue
				80.34	100-000-0000-2000	Refund Check 030248-000, 5474 Cahuilla Avenue
43832	02/28/2024	Customer Refund	168.50	84.25	100-000-0000-2000	Refund Check 029262-000, 72428 Sunnyslope Drive
				84.25	100-000-0000-2000	Refund Check 029262-000, 72428 Sunnyslope Drive
43834	02/28/2024	Customer Refund	57.04	28.52	100-000-0000-2000	Refund Check 024808-000, 6931 Eucalyptus Avenue
				28.52	100-000-0000-2000	Refund Check 024808-000, 6931 Eucalyptus Avenue
21918	02/28/2024	Tops'N Barricades Inc.	1,147.31	1,147.31	100-130-0000-5220	Field Supplies-Traffic Cones.
21919	02/28/2024	TPX Communications	422.40	422.40	100-600-0000-5203	Hatch
43840	02/28/2024	Customer Refund	20.90	10.45	100-000-0000-2000	Refund Check 009803-245, 74144 Cactus Drive
				10.45	100-000-0000-2000	Refund Check 009803-245, 74144 Cactus Drive
43842	02/28/2024	Customer Refund	10.49	5.25	100-000-0000-2000	Refund Check 009656-065, 69623 Old Chisholm Trail

Twentynine Palms Water District

Check Date Range: 2/1/2024 thru 2/29/2024

				5.24	100-000-0000-2000	Refund Check 009656-065, 69623 Old Chisholm Trail
65766	02/28/2024	Customer Refund	72.37	11.18	100-000-0000-2000	Refund Check 030325-000, 6971 Juniper Avenue
				11.19	100-000-0000-2000	Refund Check 030325-000, 6971 Juniper Avenue
				50.00	100-000-0000-2000	Refund Check 030325-000, 6971 Juniper Avenue
131538	02/28/2024	Usa Blue Book	3,962.31	109.74	100-130-0000-5220	Fiberglass Tile Probe 4'
				830.59	100-000-0000-1499	FLANGE METER BRASS 1 1/2 in
				917.10	100-150-0000-5220	Ricca Fluoride 10ppm x2
				303.97	100-000-0000-1499	GATE VALVE 2 in
				615.79	100-150-0000-5220	Ricca Fluoride x2 1ppm
				1,185.12	100-000-0000-1499	FLANGE METER BRASS 2 in
21924	02/28/2024	Vagabond Welding Supply	1,099.79	1,099.79	100-150-0000-5221	Aluminum for T.P. Degas Pool Cover.
21925	02/28/2024	Verizon Wireless	912.75	912.75	100-600-0000-5203	Wireless
43852	02/28/2024	Customer Refund	156.26	78.13	100-000-0000-2000	Refund Check 030604-000, 71641 Florida Court
				78.13	100-000-0000-2000	Refund Check 030604-000, 71641 Florida Court
43854	02/28/2024	Customer Refund	114.78	57.40	100-000-0000-2000	Refund Check 010463-078, 6628 National Park Drive #ABCD
				57.38	100-000-0000-2000	Refund Check 010463-078, 6628 National Park Drive #ABCD
43856	02/28/2024	Customer Refund	101.79	50.90	100-000-0000-2000	Refund Check 010463-075, 6639 National Park Drive #ABCD
				50.89	100-000-0000-2000	Refund Check 010463-075, 6639 National Park Drive #ABCD
43858	02/28/2024	Customer Refund	88.80	44.39	100-000-0000-2000	Refund Check 010463-137, 6615 National Park Drive #ABCD
				44.41	100-000-0000-2000	Refund Check 010463-137, 6615 National Park Drive #ABCD
43860	02/28/2024	Customer Refund	97.46	48.72	100-000-0000-2000	Refund Check 010463-076, 6675 National Park Drive #ABCD
				48.74	100-000-0000-2000	Refund Check 010463-076, 6675 National Park Drive #ABCD
43862	02/28/2024	Customer Refund	93.13	46.56	100-000-0000-2000	Refund Check 010463-130, 6658 National Park Drive Apt. 1 thru 4
				46.57	100-000-0000-2000	Refund Check 010463-130, 6658 National Park Drive Apt. 1 thru 4
43864	02/28/2024	Customer Refund	101.79	50.89	100-000-0000-2000	Refund Check 010463-074, 6627 National Park Drive #ABCD
				50.90	100-000-0000-2000	Refund Check 010463-074, 6627 National Park Drive #ABCD
43866	02/28/2024	Customer Refund	158.33	79.16	100-000-0000-2000	Refund Check 010463-002, 73636 Cactus Drive
				79.17	100-000-0000-2000	Refund Check 010463-002, 73636 Cactus Drive
21934	02/28/2024	Frontier Communications	149.98	149.98	100-600-0000-5203	Hatch
			Total	**$217,585.88**		

7

7.1

TWENTYNINE PALMS WATER DISTRICT
72401 Hatch Road/P. O. Box 1735
Twentynine Palms, CA 92277-1000
PHONE (760) 367-7546 FAX (760) 367-6612

TO: **Board of Directors**

FROM: **Mike Minatrea, Maintenance Superintendent**

DATE: **March 12, 2024**

SUBJECT: **Management Report**

A. The Operations and Maintenance Department performed the following tasks during the month of February 2024:

1. Responded to 45 Underground Service Alerts
2. Responded to and repaired
   a. 1 water main leak
   b. 0 water meter leaks
   c. 1 service line leak
   d. 1 fire hydrant repair/maintenance
3. Installed 2 new services
4. Replaced 0 customer gate valves
5. Performed 4 leak audits
6. Painted 29 fire hydrants
7. Performed 6 customer pressure checks
8. Replaced 1 water meter
9. Tested and exercised emergency generators
10. Sounded wells for February
11. 0 water waste inquiries were reported
12. Replaced 0 AMI/AMR meters

B. The following customer service tasks were performed:

1. 436 work orders were generated from reading meters
2. 45 work orders were generated from billing variance list
3. 156 work orders were generated for turn on or turn off
4. 350 termination notices were distributed
5. 41 non-pay turn offs were performed
6. 0 extensions were granted
7. 0 extensions were shut off for non-payment
8. 8 payment schedules have been granted
9. 0 payment schedule failed
10. 6 customer requests and 5 inquiries were logged and investigated

C. Valve and Hydrant Maintenance Update

	Valves Exercised (Began 1/24)	Dead Ends Flushed (Began 1/24)
Current Month	237	25
Year to Date	*333	54

*Biennial cycle

Twentynine Palms Water District

Maintenance Report

FY 2023/24

	USA	Leak Audits	Fire Hydrant Painting	Shut Offs	Total Work Orders Completed	Valves Exercised	Customer's Valve Replaced	New Service	Main Line Leaks	Active Account	Prior Year	%Increase (Decrease)
July	54	5	0	32	862	27	6	1	0			
August	44	6	0	16	838	38	3	0	1		7,729	
Sept.	62	3	0	44	798	58	4	2	0			
October	107	5	0	42	775	260	5	2	0	N/A	N/A	
Nov.	138	4	0	36	602	123	1	1	0			
Dec.	58	7	120	38	809	123	10	0	0		7,761	
Jan.	70	4	0	38	640	96	0	0	0			
Feb.	45	4	29	41	637	237	0	2	1	N/A	N/A	
March												
April											7,756	
May												
June										N/A	N/A	
Totals	**578**	**38**	**149**	**287**	**5961**	**962**	**29**	**8**	**2**			

Total Connections in Distric ct= 8,442

7.2

TWENTYNINE PALMS WATER DISTRICT
72401 Hatch Road/P. O. Box 1735
Twentynine Palms, CA 92277-1000
PHONE (760) 367-7546 FAX (760) 367-6612

TO: **Board of Directors**

FROM: **Robert Shelton, Treatment/Production Superintendent**

DATE: **March 11, 2024**

SUBJECT: **Management Report**

1. ENGINEERING

A. No items to report.

2. WATER QUALITY

A. Chlorine Levels: Average levels maintained in the storage and distribution system ranged from a low of 0.18 mg/L to a high of 1.57 mg/L. Chlorination point (the point where chlorine is introduced into the distribution system) averages ranged from 0.17 mg/L to .69 mg/L.

B. Bacteria Samples: A total of 40 routine bacteria samples were collected at test points for the storage and distribution system during this past month. In addition 11 special bacteria samples were collected. All routine and special samples indicated ABSENT for Colilert.

C. Fluoride Samples: A total of 15 fluoride samples were collected at established test points for the storage and distribution system, and 12 fluoride samples were taken from potable water production wells. Fluoride levels in the distribution system ranged from a low of 1.1 mg/L to a high of 1.7 mg/L. Fluoride measurements collected at the wells ranged from a low of 0.70 to a high of 1.7 mg/L.

D. General Physical: A total of 11 general physical samples were collected from established locations as a part of routine testing requirements. Levels reported for color are <3.0, 1 for threshold odor and <0.10- 0.88 for turbidity.

TWENTYNINE PALMS WATER DISTRICT

Water Production Report

FY 2022/23

Groundwater Source								
	Mesquite Springs Basin	Fortynine Palms Basin	Eastern Basin	Indian Cove Basin	Total Produced	Total Prior Yr	%Increase Decrease prior year	%Increase Decrease from 2013
July	115.114	96.846	24.576	25.043	261.578	258.632	1.14%	**-15.60%**
August	108.125	90.756	29.358	11.578	239.817	238.492	0.56%	**-17.93%**
Sept.	103.387	77.636	22.741	6.860	210.624	217.076	-2.97%	**-13.95%**
October	104.979	78.692	16.424	3.453	203.548	200.011	1.76%	**-5.71%**
Nov.	97.307	57.970	15.160	4.336	174.773	176.638	-1.05%	**-6.59%**
Dec.	83.76	56.970	17.806	3.004	161.540	162.810	-0.78%	**-1.92%**
Jan.	67.123	59.250	20.905	6.928	154.206	154.642	-0.28%	**-18.89%**
Feb.	92.073	36.154	10.245	6.706	145.178	144.004	0.81%	**-12.78%**
March								
April								
May								
June								
Totals	**771.868**	**554.274**	**157.215**	**67.908**	**1551.264**	**1552.305**	-0.07%	

Production Totals Expressed in Acre Feet

NOTE: Year to Date Mesquite Springs Basin regeneration production of **-7.652** acre feet = **-1.00%**

7.3

TWENTYNINE PALMS WATER DISTRICT

FINANCIAL REPORT

For The Month Of

Jan-24

PRELIMINARY - SUBJECT TO YEAR-END AUDIT ADJUSTMENTS

Twentynine Palms Water District
Statement of Investments and Reserves
For the Period Ending January 31, 2024
(Unaudited)

	Operating Funds & Internal Reserves- LAIF:	Prior Balance	Deposits	Disbursements	Current Balance	Market
1	Operating Funds	$ 687,222	$ 6,904 [2]	$ (21,468) [1,2]	$ 672,658	$ 668,315
2	Capital Funds for Primary Infrastructure	873,096	30,239 [1,2]	-	903,335	897,502
3	Capital Funds for Secondary Infrastructure	182,696	1,835 [2]	-	184,531	183,339
4	**Total LAIF**	**1,743,014**	**38,978**	**(21,468)**	**1,760,524**	**1,749,156**
5	Checking Account Unrestricted	1,438,115	828,021	(1,396,686) [3]	869,450	869,450
6	CLASS Account- Operating Funds	6,300,105	580,157 [3,4]	-	6,880,262	6,880,262
7	CLASS Account- Pension/OPEB	299,990	1,397 [4]	-	301,387	301,387
8	Restricted Funds - FY 22/23 Carryover CIP Budget	(3,183,400)	-	-	(3,183,400)	(3,183,400)
9	**Total Investments**	**$ 6,597,824**	**$ 1,448,553**	**$ (1,418,154)**	**$ 6,628,223**	**$ 6,616,856**

[1] Capacity Fees for new connections are received in the general fund and then transferred to the Capital Funds
[2] Quarterly LAIF Interest
[3] Transfer from Checking to CLASS
[4] Monthly CLASS Interest

CERTIFICATION

I certify that (1) all investment actions executed since the last report have been made in full compliance with the District's Investment Policy and, (2) the District will meet its expenditure obligations for the next six months as required by California Government Code Sections 53646(b)(2) and (3), respectively.

Cindy Byerrum, CPA
Contract CPA

*** *Market values are adjusted on this report on a quarterly basis and recorded in the District's financials statements at the end of the fiscal year*

Twentynine Palms Water District
Statement of Investments and Reserves
For the Period Ending January 31, 2024
(Unaudited)

		Jan-24	YTD	Budget	YTD 58%	Prior YTD
1	Operating Revenues	$ 426,551	$ 3,572,341	$ 5,831,500	61%	$ 3,227,809
2	Non-Operating Revenues	123,870	750,490	795,100	94%	633,125
3	**Total Revenue Available to Fund Operations & Capital**	**550,421**	**4,322,831**	**6,626,600**	**65%**	**3,860,934**
4	Operating Expenses	507,084	3,065,679	5,112,000	60%	2,746,811
5	Non-Operating Expenses	172,990	283,929	376,400	75%	137,372
6	Total Debt Service	-	121,074	243,500	50%	121,097
7	**Total Expenses & Debt Service**	**680,074**	**3,470,681**	**5,731,900**	**61%**	**3,005,280**
8	**Net Revenues Available to Fund Capital Expenditures**	**(129,653)**	**852,149**	**894,700**	**95%**	**855,654**
9	District Projects	(18,437)	(60,146)	(504,900)	12%	(20,496)
10	CIP Projects	(414)	(414)	(1,809,400)	0%	(599)
11	Repairs & Replacement	(33,506)	(141,821)	(764,600)	19%	-
12	Capital Outlay	(19,604)	(152,107)	(538,800)	28%	(37,446)
	Sub-Total: Net Debt Proceeds / Capital	**(71,961)**	**(354,489)**	**(3,617,700)**	**10%**	**(58,540)**
13	Transfers in from Special Revenue Fund	16,535	93,771	154,500	61%	93,893
14	**Increase (Decrease) in Fund Balance**	**$ (185,078)**	**$ 591,432**	**$ (2,568,500)**		**$ 891,007**

No assurance is provided on these financial statements. The financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States are not included.

Twentynine Palms Water District
Detail Statement of Revenues and Expenses
For the Period Ending January 31, 2024
(Unaudited)

		Jan-24	YTD	Budget	YTD 58%
1	**Operating Revenues**				
2	Water Sales (Volumetric)	$ 254,113	$ 2,377,657	$ 3,780,300	63%
3	Readiness-To-Serve (Fixed)	145,029	1,018,191	1,809,100	56%
4	Other Operating Revenue	27,409	176,530	282,300	63%
5	Bad Debt Expense	-	(37)	(40,200)	0%
6	**Total Operating Revenues**	**426,551**	**3,572,341**	**5,831,500**	**61%**
7	**Non-Operating Revenues**				
8	Capital Impact Fees	21,468	103,046	75,000	137%
9	Water Availability Assessment	49,333	343,316	592,000	58%
10	Interest Revenue	48,842	263,388	92,500	285%
11	Other Penalties	1,057	20,315	20,600	99%
12	Reimbursed Expenses	3,207	17,303	5,000	346%
13	Miscellaneous Non-Op Revenue	(37)	3,122	10,000	31%
14	**Total Non-Operating Revenues**	**123,870**	**750,490**	**795,100**	**94%**
15	**Total Revenues**	**550,421**	**4,322,831**	**6,626,600**	**65%**
16	**Operating Expenditures**				
17	**Source of Supply**				
18	Labor & Benefits	611	4,944	5,300	93%
19	Direct Expenses	54,834	325,933	477,000	68%
20	**Total Source of Supply**	**55,445**	**330,877**	**482,300**	**69%**
21	**Pumping**				
22	Labor & Benefits	222	2,608	1,400	186%
23	Direct Expenses	17,308	100,984	190,500	53%
24	**Total Pumping**	**17,530**	**103,592**	**191,900**	**54%**
25	**Transmission & Distribution**				
26	Labor & Benefits	106,541	752,806	1,321,900	57%
27	Direct Expenses	39,292	261,554	445,200	59%
28	**Total Transmission & Distribution**	**145,833**	**1,014,360**	**1,767,100**	**57%**
29	**Treatment Wells**				
30	Labor & Benefits	6,361	47,528	90,900	52%
31	Direct Expenses	6,123	23,564	46,400	51%
32	**Total Treatment Wells**	**12,484**	**71,092**	**137,300**	**52%**
33	**Treatment Facility**				
34	Labor & Benefits	19,219	133,329	196,300	68%
35	Direct Expenses	81,096	261,020	430,200	61%
36	**Total Treatment Facility**	**100,315**	**394,348**	**626,500**	**63%**
37	**Customer Accounts**				
38	Labor & Benefits	26,403	180,757	334,000	54%
39	Direct Expenses	919	61,801	83,300	74%
40	**Total Customer Accounts**	**$ 27,321**	**$ 242,558**	**$ 417,300**	**58%**

No assurance is provided on these financial statements. The financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States are not included.

Twentynine Palms Water District
Detail Statement of Revenues and Expenses
For the Period Ending January 31, 2024
(Unaudited)

		Jan-24	YTD	Budget	YTD 58%
41	**General & Administration**				
42	Labor & Benefits	$ 41,327	$ 313,617	$ 543,900	58%
43	Outside Services	44,233	286,951	435,000	66%
44	Direct Expenses	23,923	192,138	375,600	51%
45	**Total General & Administration**	**109,484**	**792,707**	**1,354,500**	**59%**
46	**Payouts & Retiree Medical**				
47	Vacation / Sick Payouts	36,408	96,620	73,100	132%
48	Retiree Medical	1,399	6,302	31,500	20%
49	**Total Payouts & Retiree Medical**	**37,807**	**102,922**	**104,600**	**98%**
50	**Board of Directors**				
51	Director Fees	850	7,450	15,000	50%
52	Direct Expenses	14	5,773	15,500	37%
53	**Total Board of Directors**	**864**	**13,223**	**30,500**	**43%**
54	**Total Operating Expenditures**	**507,084**	**3,065,679**	**5,112,000**	**60%**
55	**Non-Operating Expenditures**				
56	**Debt Service**				
57	Debt Principal Payments	-	102,397	207,700	49%
58	Interest Expense	-	18,677	35,800	52%
59	**Total Debt Service**	**-**	**121,074**	**243,500**	**50%**
60	CalPERS UAL Payment (Required)	18,490	129,429	221,900	58%
61	Pension & OPEB Trust Contributions	154,500	154,500	154,500	100%
62	**Total Non-Operating Expenditures**	**172,990**	**405,003**	**619,900**	**65%**
63	**Total Expenditures**	**680,074**	**3,470,681**	**5,731,900**	**61%**
64	**Net Revenues Before Capital Program**	**(129,653)**	**852,149**	**894,700**	**95%**

No assurance is provided on these financial statements. The financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States are not included.

Twentynine Palms Water District
Special Revenue Fund
For the Period Ending January 31, 2024
(Unaudited)

		Jan-24	YTD	Budget	YTD 58%
1	Tower Revenues	$ 16,535	$ 93,771	$ 154,500	61%
2	Less Transfers Out To Water	(16,535)	(93,771)	(154,500)	61%
	Ending Balance	$ -	$ -	$ -	

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Twentynine Palms Water District
Carryover CIP/Current CIP and R&M/Capital Outlay
For the Period Ending January 31, 2024
(Unaudited)

		Budget FY 23/24	Current Year Expenditures	Remaining Under / (Over) Budget
1	**District Projects**			
2	Treatment Feasibility & Exploration Costs	$ 67,100	$ 13,775	$ 53,325
3	Salt Nutrient Monitoring Wells\Sampling	65,500	12,376	53,124
4	USGS Study\Feasibility Study	100,000	-	100,000
5	Centralized Sewer Plan\Groundwater Analysis	92,300	5,000	87,300
6	Master Plan Updates	100,000	20,047	79,953
7	Campbell Reservoir Land Acquisition	35,000	2,875	32,125
8	Standard Drawings Update	25,000	4,513	20,488
9	Asset Management Plan	20,000	-	20,000
10	Vulnerability/Supply Assessment	-	1,560	(1,560)
11	**Total District Projects**	**504,900**	**60,146**	**444,754**
12	**Capital Improvement Plan**			
13	Chromium VI and Flouride for Well 11B	1,300,000	-	1,300,000
14	Water Reservoir at Treatment Plant	400,000	414	399,586
15	AMI/AMR	59,400	-	59,400
16	**Capital Improvement Plan**	**1,759,400**	**414**	**1,758,986**
17	**Repairs, Rehabilitiation, & Maintenance**			
18	Distribution SCADA System	200,000	4,852	195,148
19	Emergency Repairs, Unspecified	150,000	14,450	135,550
20	Campbell Reservoir Road Paving\Seal Coating	89,600	-	89,600
21	Treatment Plant Concrete	50,000	-	50,000
22	Repiping/Distribution System Upgrades	75,000	50,308	24,692
23	Hanson Booster Station	50,000	67,262	(17,262)
24	Cactus Booster Station	40,000	-	40,000
25	Plant 6 Electrical and Well Upgrade	25,000	-	25,000
26	Reservoir Recoating / Cathodic Protection	20,000	-	20,000
27	Large Meter Replacement Program	20,000	-	20,000
28	Stockwell Booster Station	20,000	-	20,000
29	Fluoride Plant Instr.\Coating\SCADA	15,000	-	15,000
30	Lupine Booster Station	10,000	4,950	5,050
31	**Total Repairs & Maintenance**	**764,600**	**141,821**	**622,779**
32	**Capital Outlay**			
33	Vehicle/Equipment Replacements	225,000	74,781	150,219
34	Electric Vehicle Station	150,000	-	150,000
35	Computer/Technology Replacements	48,600	48,504	96
36	Geographic Information System (GIS)	25,200	14,622	10,578
37	Administrative Building\Office Remodel	60,000	-	60,000
38	Energy Efficiency Projects	30,000	-	30,000
39	Parking Lot Seal\Paving	50,000	-	50,000
40	Equipment Shade Structure	-	14,200	(14,200)
41	**Total Capital Outlay**	**588,800**	**152,107**	**436,693**
42	**Grand Total**	**$ 3,617,700**	**$ 354,489**	**$ 3,263,211**

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7.4

NO MATERIAL PROVIDED