LAS VIRGENES - TRIUNFO
JOINT POWERS AUTHORITY
AGENDA

899 Kanan Road, Oak Park, California 91377

CLOSING TIME FOR AGENDA IS 8:30 A.M. ON THE TUESDAY PRECEDING THE MEETING. GOVERNMENT CODE SECTION 54954.2 PROHIBITS TAKING ACTION ON ITEMS NOT ON POSTED AGENDA UNLESS AN EMERGENCY, AS DEFINED IN GOVERNMENT CODE SECTION 54956.5 EXISTS OR UNLESS OTHER REQUIREMENTS OF GOVERNMENT CODE SECTION 54954.2(B) ARE MET.

5:00 PM September 6, 2016

PLEDGE OF ALLEGIANCE

1 CALL TO ORDER AND ROLL CALL

2 APPROVAL OF AGENDA

3 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

4 CONSENT CALENDAR

A Minutes: Regular Meeting of August 1, 2016 and Special Meeting of August 4, 2016 (Pg. 3)

5 ACTION ITEMS

A Centrate Equalization Tank Project: Construction Award (Pg. 16)

Award a construction contract to Zusser Company, Inc., in the amount of $1,455,604; reject all remaining bids upon receipt of duly executed contract documents; and accept the proposal from Kennedy/Jenks Consultants for construction management and inspection services and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of $116,740, for the Centrate Equalization Tank Project.

B Tapia Primary Clarifier Nos. 2 and 3 Rehabilitation Project: CEQA Determination and Construction Award (Pg. 67)

Find that the work is categorically exempt from the California Environmental Quality Act; waive a minor bid irregularity; approve an additional appropriation, in the amount of $299,560; and award a construction contract to Spiess Construction Company, Inc., in

the amount of $763,160, for the Tapia Water Reclamation Facility Primary Clarifier Nos. 2 and 3 Rehabilitation Project.

C Recycled Water Seasonal Storage: Basis of Design Report and Next Steps (Pg. 72)

Receive and file the Recycled Water Seasonal Storage Basis of Design Report and authorize the issuance of requests for proposals for the preliminary design and environmental review of a proposed potable reuse demonstration project, technical studies to verify compliance with draft surface water augmentation regulations, and a preliminary environmental assessment for the proposed full-scale project.

6 BOARD COMMENTS

7 ADMINISTERING AGENT/GENERAL MANAGER REPORT

8 FUTURE AGENDA ITEMS

9 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

10 CLOSED SESSION

A Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):

1. Las Virgenes - Triunfo Joint Powers Authority v. United States Environmental Protection Agency and Heal the Bay, Inc. v. Lisa P. Jackson (TMDL cases)
2. Las Virgenes - Triunfo Joint Powers Authority v. United States Environmental Protection Agency (FOIA case)

11 ADJOURNMENT

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

LAS VIRGENES – TRIUNFO
JOINT POWERS AUTHORITY
MINUTES
REGULAR MEETING

5:00 PM August 1, 2016

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Susan Mulligan.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair Glen Peterson in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road in Calabasas, California. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Director(s): Caspary, Iceland, Lewitt, McReynolds, Orkney, Paule, Peterson, Polan, Renger, and Wall.
Absent: Director(s): None.

2. APPROVAL OF AGENDA

Director Paule moved to approve the agenda as presented. Motion seconded by Director Caspary. Motion carried unanimously.

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR

A Minutes: Regular Meeting of July 5, 2016 – Approve

B Rancho Agitator No. 2 Conveyor Frame Replacement: Purchase Order

Authorize the Administering Agent/General Manager to issue a purchase order to BDP Industries, Inc., in the amount of $42,510, for the purchase of a new conveyor frame for Agitator No. 2.

C Rancho Las Virgenes Digester No. 1 Cleaning Project: Final Acceptance

Approve the execution of a Notice of Completion and have the same recorded, and in the absence of claims from subcontractors and others, release the retention, in the amount of $5,798.52, within 30 calendar days after filing the Notice of Completion for the Rancho Las Virgenes Digester No. 1 Cleaning Project.

Director Caspary moved to approve the Consent Calendar as presented. Motion seconded by Director Iceland. Motion carried unanimously.

5. ACTION ITEMS

A Recycled Water Seasonal Storage: Selection of Preferred Alternative

Select Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, as the preferred alternative for the Recycled Water Seasonal Storage Basis of Design Report; authorize staff to finalize the Basis of Design Report, identifying the preferred alternative; and direct staff to outline the proposed next steps at the JPA's September Board Meeting.

Administering Agent/General Manager David Pedersen provided introductory remarks and summarized the efforts taken over the past 18 months by the JPA Board, staff, and stakeholders to consider recycled water seasonal storage. He noted there were two challenges and goals of this effort, including the ability to fully and beneficially reuse the JPA's recycled water and comply with increasingly stringent regulatory requirements to effectively eliminate discharges to Malibu Creek. He stated that continued discharges would be required for flow augmentation for endangered fish and during storm events. He noted that the Board adopted the following guiding principles: 1) maximize beneficial reuse of water, 2) seek cost effective solutions, 3) seek partnerships beyond the JPA, 4) gain community support, 5) govern with a partnership, and 6) be forward-thinking. He recognized the stakeholders for their participation during this effort: Senator Fran Pavley's office, County Supervisor Sheila Kuehl's office, Heal the Bay, Los Angeles Waterkeeper, National Park Service, California State Parks, City of Calabasas, City of Thousand Oaks, Malibu Creek MS4 Watershed Management Committee, Mountains Restoration Trust, Santa Monica Mountains Conservancy, Resource Conservation District of the Santa Monica Mountains, Santa Monica Mountains Fund, Los Angeles Department of Water and Power, Calleguas Municipal Water District, Camrosa Water District, and Metropolitan Water District of Southern California.

James Borchardt, representing Montgomery Watson Harza (MWH), presented a PowerPoint presentation of the background of the project and draft Basis of Design Report (BODR), including project driver to balance supply and demand,

Scenario 4 schematic with the existing Las Virgenes Reservoir, Scenario 5 schematic with the Encino Reservoir, available recycled water projections and costs for Scenarios 4 and 5, facility schedule, and BODR Workshop #4 polling results for the preferred scenario.

Karen Snyder, representing Katz & Associates, provided a summary of the initial public outreach and targeted interviews with individuals in the community as part of a qualitative research process. She noted that to date her firm had spoken with 11 people from the list of 40 people. She also noted that a copy of the list of interview questions was attached in the Board packet. She provided a brief summary of information received:

- The majority of individuals interviewed had no strong preference for either scenario;
- Questions arose regarding the length of pipeline needed for Scenario 5;
- Most accepted the concept of advanced water treatment;
- Concerns were expressed with the timeline, water quality, and safety;
- The majority of individuals saw potable reuse as a necessary step;
- Questions arose regarding the role of water conservation;
- Questions arose regarding the cost and funding options; and
- Ideas were shared for engaging and reaching out to more people.

She noted that several individuals provided additional names of people to be contacted, and all were appreciative for receiving a call.

Brian Thomas, representing PFM Financial Advisors, LLC, provided a PowerPoint presentation and discussed state, federal and local funding and financing options including:

- Subsidized or low-interest loans;
- Grants including those from Proposition 1, MWD's Local Resources Program, and the State Water Recycling Funding Program;
- State Revolving Fund (SRF) loans;
- Debt placed in capital markets and private equity; and
- State, federal, and regional funding sources.

Mr. Thomas also presented a funding source relative cost comparison showing scenario analyses with various combinations of grants and SRF loans, traditional tax-exempt bonds, direct bank loans, private placements, and public/private partnerships. He also discussed the relative cost of capital by funding source including grants, SRF loans, tax-exempt bonds, direct bank loans, taxable bonds, private placements, and public-private partnerships. He presented three potential funding scenarios and compared the debt service requirements. He stated that the cost of debt service for the project, including an estimate for operations and maintenance, would be $12 to $13 per month per average customer. He reviewed the project objectives for obtaining the lowest cost of borrowing and

minimizing net impact to ratepayers. Also, he discussed risk assessment considerations, financing structure options and next steps for assessing the impact on overall revenues and rates.

Administering Agent/General Manager David Pedersen recommended that the Board select Scenario No. 4 in order to allow staff to focus limited resources on a more detailed study and to begin the environmental documentation process for compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). He noted that the other alternatives, including Scenario 5, would be considered in the environmental document. He stated that having a preferred alternative would allow staff to have the basis to seek available funding and submit grant applications, and allow staff and Katz & Associates to initiate a broader public outreach program. He also stated that selecting a preferred alternative would not eliminate any other scenario from future consideration and would not be intended to serve as an approval with respect to CEQA and NEPA, or an authorization to expend funds with the exception of staff time and resources. He noted that the recommendation included authorizing staff to finalize the Basis of Design Report, identifying the preferred alternative, and directing staff to bring back next steps at the JPA's September Board meeting. He summarized the six major factors that were the basis of the staff recommendation.

Authority Counsel Keith Lemieux noted that the Board would not be approving a project by selecting Scenario 4, but rather the Board would be identifying the preferred alternative and directing staff to present more information.

Mary Wiesbrock, representing Save Open Space/Santa Monica Mountains, read from her prepared statement, which was submitted for the record, expressing concern with potable water reuse from sewer water, environmental impacts, health and safety impacts, impacts to endangered species in Malibu Creek, and lack of public notice. She encouraged the Board to give consideration to other alternatives such as Scenario 5 or the possible use of Chatsworth Reservoir. She also encouraged the Board to continue this item to the Board meeting in September to comply with CEQA requirements and conduct outreach to constituents. Chair Peterson noted that the source water for potable reuse would be recycled water that has been fully treated to Title 22 standards at the Tapia Water Reclamation Facility.

Debra Sharpton, Executive Director of Mountains Restoration Trust, noted that she participated in the stakeholder process, and she expressed support for Scenario 4 because it would have the most value and create a more sustainable community. She expressed concern that Scenario 5 would extend liability to other recycled water users. She also noted that she visited San Diego's direct potable reuse system and Orange County's indirect potable reuse system, and she expressed her hope that the Board would move the community to be more sustainable.

Susan Mulligan, General Manager of Calleguas Municipal Water District (Calleguas), stated that Calleguas fully supports staff's recommendation for Scenario 4. She stated that this option would provide a reliable potable water supply to the Triunfo Sanitation District area in the event of curtailment of imported supplies. She spoke in support of keeping the water in the community, and she asked that the Board consider providing a detailed presentation to the Calleguas Board regarding the effort. She expressed Calleguas' commitment to work with the JPA on this effort, including assisting with connecting to Calleguas' Salinity Management Pipeline and wheeling water through Calleguas' system to Triunfo Sanitation District/Oak Park Water Service.

Katherine Pease, Watershed Scientist for Heal the Bay, noted that her organization participated in the stakeholder process and met with staff regarding the proposed alternatives. She stated that Heal the Bay supports efforts to increase water recycling and promote water resiliency, while improving water quality in the local streams. She also stated that Scenario 4 is forward-thinking in its consideration of long-term benefits of water resiliency. She commented that indirect potable reuse provides a reliable and resilient source of drinking water with reduced future need for imported water, and removing effluent to Malibu Creek would have positive impacts to the ecological health of the watershed. She stated that Heal the Bay would like to see stormwater management plans developed in concert with water treatment and recycling, so stormwater could also be treated and reused for beneficial uses.

Director Paule moved to approve Item 5A. Motion seconded by Director McReynolds.

A discussion ensued regarding a "do nothing alternative" that could involve non-compliance with regulatory requirements; current dependency on the State Water Project; and revisiting extending recycled water service to the Woodland Hills Country Club, the Warner Center, and other locations outside the service area with Scenario 4. Administering Agent/General Manager David Pedersen noted that an update on the progress of work for the Woodland Hills Country Club would be brought back for a future agenda. He also noted that the Los Angeles Department of Water and Power (LADWP) had issued a Request for Proposals for consultant studies to look at a smaller project to serve the motion picture studio instead of extending the system to the Woodland Hills Country Club.

Director Renger expressed concern with Scenario 4 and stated he would reluctantly support Scenario 5. He noted that one of the alternatives previously considered included building a new reservoir and distributing the water. He stated that his main concerns with Scenario 4 would be brine disposal and wasting a resource, dependency on another agency to handle the brine, and whether that agency would be willing to consider the JPA's regulatory issues. He expressed support for considering other alternatives through the CEQA process.

A discussion ensued regarding support for Scenario 4, the stakeholders' participation, and the fact that all meetings and workshops were open to the public and properly noticed.

Director Caspary expressed concern with the thoroughness of an environmental review of all of the options. Administering Agent/General Manager David Pedersen responded that part of the environmental documentation process would involve considering project alternatives. He noted that the Board studied six different alternatives, including building a reservoir, and it was likely that the environmental document would discuss all of the alternatives and their potential environmental impacts in more detail.

District Counsel Keith Lemieux stated that it was important from a CEQA standpoint that the JPA would not be eliminating an analysis of the potential alternatives from the environmental process. He noted that this was not the decision being made, and the Board was giving staff direction to bring back recommendations, including the preparation of environmental documents.

Motion carried by the following vote:

Ayes: Caspary, Iceland, Lewitt, McReynolds, Orkney, Paule, Peterson, Polan, Wall
Noes: Renger
Abstain: None
Absent: None

B State and Federal Legislative and Regulatory Advocacy

Accept the proposal from Best Best & Krieger LLP; authorize the Administering Agent/General Manager to execute a one-year professional services agreement, in the amount of $130,000, for state and federal legislative and regulatory advocacy services; and request a commitment from JPA members to individually budget and authorize expenses for at least one Board Member and executive staff member to participate in advocacy trips.

Administering Agent/General Manager David Pedersen presented the report.

Chair Peterson disclosed that he and Vice Chair Paule participated in a videoconference with District staff and representatives from Best Best & Krieger.

Syrus Devers, representing Best Best & Krieger, discussed the proposal for federal and state lobbying services and summarized several funding opportunities that could be available to the JPA.

Director Caspary moved to approve Item 6B. Motion seconded by Director Paule.

A discussion ensued regarding the timing to begin the contract, retainer billing versus hourly billing, and contract term for one year.

Dennis Washburn, representing the Resource Conservation District of the Santa Monica Mountains and City of Calabasas Planning Commission, spoke in support of the proposal. He noted that the Resource Conservation District of the Santa Monica Mountains uses Best Best & Krieger's services as well as Conservation Strategies, and he suggested that there could be other organizations that could be interested in teaming up with the JPA to help identify opportunities for mutual benefit and activity.

Motion carried unanimously.

C Consulting Services for Renewable Energy Projects

Accept the proposal from TerraVerde Renewable Partners, LLC; authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of $80,576; and appropriate the same amount to perform a Project Feasibility Assessment for expanded solar generation capacity and battery storage.

Director of Facilities and Operations David Lippman presented the report.

Director Polan moved to approve Item 6C. Motion seconded by Director Renger.

Director Iceland expressed concern with timing and costs due to Triunfo Sanitation District's (TSD) current negotiations with Calleguas for purchasing the recycled water pipeline, and concerns with the potential impact to the cost of wholesale recycled water. He inquired whether this item could be postponed for three months in order for TSD to determine whether they would have the funds necessary to purchase the recycled water pipeline from Calleguas.

Kevin Ross, representing TerraVerde Renewable Partners, explained that the State is evolving net metering regulations from Net Energy Metering 1.0 (NEM 1.0) to NEM 2.0. He stated that although NEM 2.0 would have a less valuable credit associated with it, it would allow upsizing an existing NEM 1.0 system, if warranted, to create more savings or offset additional load. He also stated that the Renewable Energy Self-Generation Bill Credit Transfer tariff (RES-BCT) and NEM 2.0 would not have crucial milestones associated with them when looking at net metering and paring with battery storage; however, he explained that funding from the State's Self-Generation Incentive Program (SGIP) was very limited and had very tightly defined windows of opportunity with respect to application submittal.

Director Paule inquired whether a Power Purchase Agreement (PPA) would be needed should the JPA move forward with the proposal. Mr. Ross responded that the feasibility assessment would address a number of different financing structures including a PPA. He noted that financing structures could include tax-exempt lease financing, low-interest CEC loans, and federally-funded renewable energy bonds.

A discussion ensued regarding concerns with local pushback due to visibility of the array in the spray fields, environmental issues, and possible fire risk due to heat production.

Director Renger inquired whether Las Virgenes Municipal Water District (Las Virgenes) could move forward alone without Triunfo Sanitation District's (TSD) participation. Administering Agent/General Manager David Pedersen responded that the JPA agreement generally requires that the other agency be offered the opportunity to participate on a project and there could be an avenue for Las Virgenes to pursue the project alone; however, staff would need to study that possibility.

Director Renger inquired regarding battery storage when using solar and peaking charges. Mr. Ross responded that although solar does offset demand to some degree, it is not a constant source of energy due to timing shifts and rate increases. He stated that the battery would allow the discharge of energy from a generation source to offset demand.

Director McReynolds inquired whether energy generation would reduce the wholesale cost of the recycled water that is sold. Administering Agent/General Manager David Pedersen responded that the new rate structure would address the issue where the benefitting accounts are separate from the producing accounts and the energy savings do not need to be applied to the recycled water pump station. He noted that the benefitting accounts would be associated with the sanitation enterprise to ensure TSD would receive its share of the benefit.

Director Polan inquired regarding battery and panel life cycle replacement and how these would factor in financially. Mr. Ross responded that all financial variables would be included in the feasibility assessment, including life cycle costs, operations and maintenance cost, and asset management cost.

Terrence Mack, representing UniEnergy Technologies, addressed the question regarding battery life cycle and stated that the proposed battery system would be the advanced vanadium re-dux flow battery that differs from a typical metal-based battery in that it is a liquid electrolyte and has a 20-year life cycle. He also stated that his company would warranty the full capacity of the battery system for the full 20 years without any degradation. Additionally, after 20 years, the JPA would have the option of keeping the battery or UniEnergy Technologies will drain the electrolyte, pick up the container, and carry it away.

A discussion ensued regarding the NEM 2.0 tariff, CEQA process should the project move forward, Federal Investment Tax Credit, and the timing for bringing a proposed project forward for the Board's consideration.

Motion carried unanimously.

6. BOARD COMMENTS

Director Orkney inquired regarding the status of the Wastewater/Watershed tour scheduled on August 6, 2016. Public Affairs and Communications Manager Jeff Reinhardt responded that the tour would be well attended and would be hosted by Directors Orkney and Caspary.

7. ADMINISTERING AGENT/GENERAL MANAGER REPORT

None.

8. FUTURE AGENDA ITEMS

None.

9. PUBLIC COMMENTS

None.

10. CLOSED SESSION

None.

11. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **7:40 p.m**.

Glen Peterson, Chair

ATTEST:

Michael Paule, Vice Chair

LAS VIRGENES – TRIUNFO
JOINT POWERS AUTHORITY
MINUTES
SPECIAL MEETING

5:00 PM August 4, 2016

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by John Mathews.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair Glen Peterson in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road in Calabasas, California. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Director(s): Caspary, Iceland, Lewitt, Orkney, Paule, Peterson, Polan, Renger, and Wall.
Absent: Director: McReynolds.

2. PUBLIC COMMENTS

None.

3. CLOSED SESSION

A Conference with District Counsel – Existing Litigation (Government Code Section 54956.9(a)):

1. Las Virgenes – Triunfo Joint Powers Authority v. United States Environmental Protection Agency and Heal the Bay, Inc. v. Lisa P. Jackson (TMDL cases)

2. Las Virgenes – Triunfo Joint Powers Authority v. United States Environmental Protection Agency (FOIA case)

The Board recessed to Closed Session at **5:01 p.m.** and reconvened to Open Session at **6:10 p.m.**

Authority Counsel Wayne Lemieux announced that during the Closed Session the Board received a presentation regarding the possibility of settling the litigation against the Environmental Protection Agency and Heal the Bay, and a

presentation regarding the Freedom of Information Act case against the Environmental Protection Agency. He stated that the Board authorized District Counsel to make an offer in the case of Las Virgenes - Triunfo Joint Powers Authority v. United States Environmental Protection Agency.

6. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **6:11 p.m**.

Glen Peterson, Chair

ATTEST:

Michael Paule, Vice Chair

September 6, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Centrate Equalization Tank Project: Construction Award

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SUMMARY:

On June 6, 2016, the JPA Board authorized a call for bids for the Centrate Equalization Tank Project and determined that the proposed tank should be designated by specific trade name to match the two existing centrate tanks at the site.

A mandatory pre-bid job walk was held on June 22, 2016. Ten bids were submitted and publicly opened on July 14, 2016. The lowest responsive bid was submitted by Zusser Company, Inc., in the amount of $1,455,604, which is approximately 18% less than the Engineer's Estimate and 8% less than the lowest responsive bid from the previous bid process. The previous bid process resulted in the rejection of all bids.

Staff evaluated the bids and determined the lowest responsive bid to be competitive. As a result, staff recommends award of a construction contract to Zusser Company, Inc., and authorization for the Administering Agent/General Manager to execute a professional services agreement with Kennedy/Jenks Consultants for construction management and inspection services.

RECOMMENDATION(S):

Award a construction contract to Zusser Company, Inc., in the amount of $1,455,604; reject all remaining bids upon receipt of duly executed contract documents; and accept the proposal from Kennedy/Jenks Consultants for construction management and inspection services and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of $116,740, for the Centrate Equalization Tank Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds are available in the adopted Fiscal Year 2016-17 JPA Budget for the project. No additional appropriation is required.

DISCUSSION:

Background:

The project consists of a 480,000-gallon bolted-steel, glass-lined and coated tank; paved access road; site grading, preparation and drainage; tank mixing equipment, instrumentation and appurtenances; process piping including valves, flow meter and electrical components; and reprogrammed SCADA controls. The new tank will improve the reliability of the centrate treatment system and provide redundancy needed to allow for future maintenance of the existing centrate treatment facilities.

Currently, centrate from the Rancho's dewatering facility is stored in one of two existing centrate treatment tanks, which are approximately 700,000 gallons each, while treatment occurs in the other tank. As a result, both tanks are needed to provide centrate treatment, and neither can be taken off-line for maintenance. The new centrate equalization tank will provide 480,000 gallons of storage to allow for continuous centrate treatment within one or both of the existing tanks. One existing centrate treatment tank can be taken off-line at a time for inspection and maintenance.

Previous Bid Process:

The project was previously advertised for construction bids on January 4, 2016. Seven bids were submitted and publicly opened on February 19, 2016. The first and second apparent low bids were determined to be non-responsive because the "or equal" tank listed in the bids did not meet the specifications. As a result, staff recommended award of a construction contract, in the amount of $1,576,639, to the third lowest bidder, Cora Constructors, Inc. However, Cora Constructors requested not to be awarded the project because of a clerical error in their bid. The JPA Board opted to reject all bids on April 14, 2016.

Current Bid Process:

Following is a summary of the bids received and Engineer's Estimate:

Bidder	Bid Amount
Zusser Company, Inc.	$1,455,604
Pyramid Building & Engineering, Inc.	$1,601,018
GMZ Engineering, Inc.	$1,648,738
United Engineering & Construction, Inc.	$1,681,426
Spiess Construction Co, Inc.	$1,756,347
Blois Construction, Inc.	$1,789,596
Green Building Corporation	$1,858,988
Cora Constructors, Inc.	$1,888,000
SFM Constructors, Inc.	$1,939,618
Union Engineering, Inc.	$2,113,282

The lowest responsible bid is from Zusser Company, Inc., in the amount of $1,455,604, which

is approximately 18% less than the Engineer's Estimate of $1,765,800.

Anticipated Project Cost:

Following is a summary of the total anticipated project cost:

Description	**Cost**
Design Services:	
Pacific Advanced Civil Engineering	$121,641
Wunderlich-Malec (SCADA)	$15,025
Construction:	
Construction Award	$1,455,604
Construction Contingency (10%)	$145,560
Construction Management & Inspection Services	$116,740
Geotechnical Services (Oakridge)	$17,018
Environmental Services (Padre)	$15,180
Administrative:	
District Labor (4%)	$58,224
G&A (7%)	$101,892
Total Project Cost	**$2,046,884**
Existing Appropriation	$2,139,198
Remaining Appropriation (projected)	$92,314

Construction Management and Inspection Services:

Staff recommends engaging a consultant to provide construction management and inspection services due to the specialized nature of the work and limited in-house resources. A request for proposals for the services was circulated, and proposals were received from four engineering firms: AECOM ($140,638), Willdan Engineering ($186,852), Pacific Advanced Civil Engineering ($115,610) and Kennedy/Jenks Consultants ($116,740). The proposal from Kennedy/Jenks Consultants, in the amount of $116,740, was determined to offer the best value. The proposal included competitive pricing, while offering highly experienced and qualified staff to act as resident engineer for the project. The proposed team has provided construction management services to the JPA successfully on numerous other projects.

Environmental Documentation and Monitoring:

On January 4, 2016, the JPA Board adopted a Mitigated Negative Declaration for the project. In accordance with the Mitigation Monitoring and Reporting Program (MMRP), the JPA is required to perform geotechnical and environmental monitoring work during construction. The Administering Agent/General Manager executed professional services agreements for these services as required by the MMRP.

Prepared by: Eric Schlageter, P.E., Senior Engineer

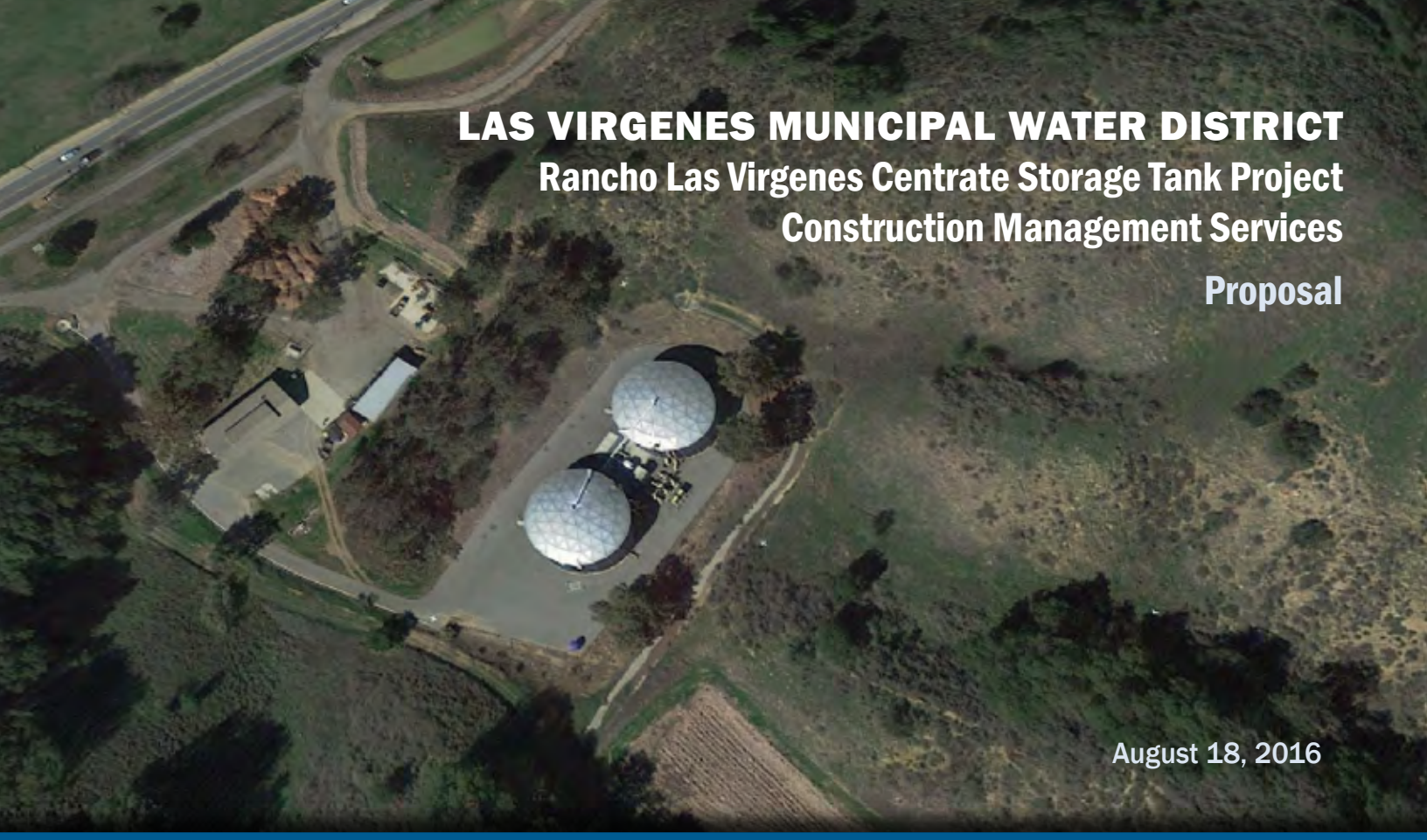
ATTACHMENTS:

Summary of Bid Results
Kennedy/Jenks Proposal

RANCHO LAS VIRGENES CENTRATE STORAGE TANK CONSTRUCTION PROJECT

Owner: Las Virgenes Municipal Water District - Triunfo Sanitation District Joint Power Authority

Bid Opening: 7/14/2016	* marks an allowance		**Engineer's Estimate**		**Zusser Company, Inc.** 528 Palisades Drive, #504 Los Angeles, CA 90272 (310) 230-6808 **License No:** **Bidder Status: Valid**		**Pyramid Building & Engineering, Inc.** 10975 G Avenue Hesperia, CA 92345 (760) 949-9006 **License No:** **Bidder Status: Valid**		**GMZ Engineering, Inc.** 5739 Kanan Road, #134 Agoura Hills, CA 91301 (818) 909-714-9779 **License No:** **Bidder Status: Valid**		**United Engineering & Construction, Inc.** 336 N. Central Avenue, #10A Glendale, CA 91203 (818) 662-8055 **License No:** **Bidder Status: Valid**		**Spiess Construction Co, Inc.** 1110 E. Clark Avenue, #210 Santa Maria, CA 93455 (805) 937-5859 **License No:** **Bidder Status: Valid**		**Blois Construction, Inc.** 3201 Sturgis Road Oxnard, CA 93030 (805) 656-1432 **License No:** **Bidder Status: Valid**		**Green Building Corporation** 7100 Hayvenhurst Avenue, PH-A2 Van Nuys, CA 91406 (818) 308-6435 **License No:** **Bidder Status: Valid**	
Rancho Las Virgenes Centrate Storage Tank Construction			**Engineer's Estimate**		**Bidder #1**		**#2**		**#3**		**#4**		**#5**		**#6**		**#7**	
Item #	Description	Quantity	Unit of Measure	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
1	MOBILIZATION, DEMOBILIZATION, BONDS AND INSURANCE	1	LS			$60,000.00	$60,000.00	$61,525.00	$61,525.00	$75,000.00	$75,000.00	$85,000.00	$85,000.00	$72,215.00	$72,215.00	$62,000.00	$62,000.00	$200,000.00	$200,000.00
2	AQUASTORE GLASS-LINED CENTRATE STORAGE TANK AND CONCRETE FOUNDATION (CST INDUSTRIES, INC., NO EQUAL)	1	LS			$510,000.00	$510,000.00	$699,000.00	$699,000.00	$450,000.00	$450,000.00	$445,013.00	$445,013.00	$686,620.00	$686,620.00	$825,000.00	$825,000.00	$972,000.00	$972,000.00
3	YARD PIPING TO AND FROM CENTRATE STORAGE TANK																		
	±263 lf OF 10" PVC	1	LF			50	$13,150.00	306	$80,478.00	150	$39,450.00	202	$53,126.00	119	$31,297.00	150	$39,450.00	170	$44,710.00
	±328 LF OF 10" PVC	1	LF			50	$16,400.00	237	$77,736.00	150	$49,200.00	202	$66,256.00	96	$31,488.00	100	$32,800.00	120	$39,360.00
	±255 LF OF 8" PVC	1	LF			50	$12,750.00	329	$83,895.00	125	$31,875.00	194	$49,470.00	74	$18,870.00	115	$29,325.00	95	$24,225.00
4	ASPHALT PAVEMENT WITH CLASS 2 AGGREGATE BASE, 3/4" MAXIMUM GRADATION																		
	±112 CY OF ASPHALT	1	CY			220	$24,640.00	246	$27,552.00	175	$19,600.00	283	$31,696.00	229	$25,648.00	250	$28,000.00	240	$26,880.00
	±223 CY OF AB	1	CY			70	$15,610.00	95	$21,185.00	75	$16,725.00	64	$14,272.00	75	$16,725.00	130	$28,990.00	70	$15,610.00
5	EARTHWORKS FOR GRADING, CUT, FILL AND EXPORT																		
	±4669 CY (CUT)	1	CY			6	$28,014.00	10	$46,690.00	11	$51,359.00	18	$84,042.00	13	$60,697.00	19	$88,711.00	12	$56,028.00
	±329 CY (FILL NATIVE)	1	CY			15	$4,935.00	5	$1,645.00	11	$3,619.00	45	$14,805.00	15	$4,935.00	90	$29,610.00	35	$11,515.00
	±4340 CY (EXPORT)	1	CY			8	$34,720.00	16	$69,440.00	20	$86,800.00	25	$108,500.00	9	$39,060.00	7	$30,380.00	16	$69,440.00
6	ENGINEERED FILL, CLASS 2 AGGREGATE BASE, 3/4" MAXIMUM GRADATION	1	CY																
	±3011 CY (Engineered Fill)					35	$105,385.00	52	$156,572.00	10	$30,110.00	48	$144,528.00	50	$150,550.00	30	$90,330.00	20	$60,220.00
7	ELECTRICAL AND CONTROLS (INCLUDES ALL ELECTRICAL AND CONTROLS EQUIPMENT AND COMPONENTS, AS WLL AS ALL FIELD INSTRUMENTATION, PROGRAMMING OF THE PLC AND SYSTEM CONTROLS INTEGRATION SHALL BE PROVIDED BY THE DISTRICT	1	LS			$150,000.00	$150,000.00	$185,000.00	$185,000.00	$200,000.00	$200,000.00	$198,015.00	$198,015.00	$193,820.00	$193,820.00	$230,000.00	$230,000.00	$240,000.00	$240,000.00
8	BASE LUMP SUM (INCLUDES ALL OTHER WORK THAT ARE NOT INCLUDED IN THE ABOVE BID ITEMS BUT ARE REQUIRED TO BE COMPLETED AS PART OF THE PROJECT)	1	LS			480,000	$480,000.00	$90,300.00	$90,300.00	$595,000.00	$595,000.00	$386,703.00	$386,703.00	$424,422.00	$424,422.00	$275,000.00	$275,000.00	$100,000.00	$100,000.00
Bid Total							**$1,455,604.00**		**$1,601,018.00**		**$1,648,738.00**		**$1,681,426.00**		**$1,756,347.00**		**$1,789,596.00**		**$1,859,988.00**

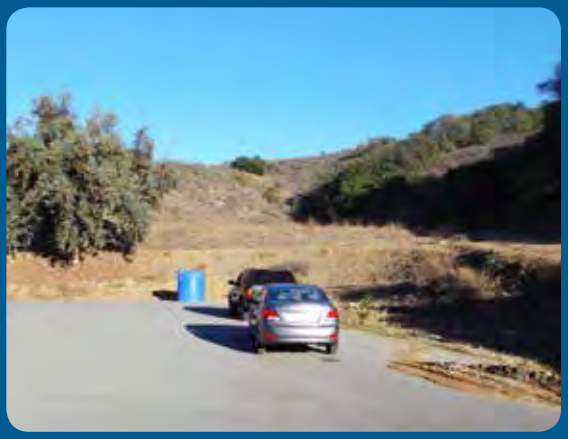


LAS VIRGENES MUNICIPAL WATER DISTRICT

Rancho Las Virgenes Centrate Storage Tank Project
Construction Management Services

Proposal

August 18, 2016



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Rancho Las Virgenes Centrate Storage Tank
Construction Management Services
for Las Virgenes Municipal Water District

18 August 2016

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2775 North Ventura Road, Suite 100
Oxnard, California 93036
805-973-5700
FAX: 805-973-1440

18 August 2016

Mr. Eric Schlageter, P.E.
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302

Subject: Request for Proposal to Provide Construction Management Services for the Rancho Las Virgenes Centrate Storage Tank

Dear Mr. Schlageter:

Las Virgenes Municipal Water District (District) has invested considerable time and thought into planning, designing, and contracting for the Rancho Las Virgenes Centrate Storage Tank project. The challenge remaining is to execute the construction as efficiently as possible to meet the budget and scheduled completion target. With two designers (Pacific Advanced Civil Engineering (PACE) and Wunderlich-Malec)) involved and a potentially challenging construction contractor, the District requires a construction management team that will represent your interests and work with all parties to complete the project to the satisfaction of all.

Kennedy/Jenks offers a highly qualified local team that will provide the District with outstanding construction management services for this project.

Our proposed Project/Construction Manager (CM) Bill Yates, PE, has been with Kennedy/Jenks for 28 years and has both design and construction management experience on complex water and wastewater infrastructure projects. He worked with the District on the Rancho Las Virgenes Third Digester project, providing engineering and construction management services that included construction management, resident engineering and coordination with District staff and permitting agencies. We are proposing to utilize Mr. Yates in the same capacity on the Rancho Las Virgenes Centrate Storage Tank project.

Our Principal-in-Charge, Jeff Savard, PE has a local presence with Kennedy/Jenks spanning 25 years. Jeff will ensure the project team is in place and the necessary resources are available to serve the District throughout the 184 calendar-day construction period.

The District will benefit from selecting Kennedy/Jenks for this assignment because:

- Our team understands the dynamics associated with a challenging contractor based on our successful PM/CM's experience working on several other large scale projects, including Calleguas Municipal Water District's Lake Bard Water Filtration Plant, within Ventura County.

- Based on our experience with the District's Third Digester Project, our team knows the project site and the existing infrastructure as well as the issues associated with coordinating construction activities, access, staging, equipment deliveries, and operations.
- We understand the level of effort the District desires for construction management when District staff are leading the inspection activities based on our recent experience with the District's Westlake Pump Station and Water Treatment Plant Expansion and Third Digester projects. We know how to coordinate with District management, operations, inspection, and public outreach staff.
- We provide the benefits of third-party construction management thereby eliminating any concerns related to potential conflicts of interest with the design documents.
- We offer a local and responsive team, and our construction manager/resident engineer Bill Yates, is backed up by a team of local inspectors that can fill in if necessary.
- Our team has the experience to assist the District in getting this project constructed and operational. For example, Kennedy/Jenks has performed construction management on numerous projects for water and wastewater treatment plants and we have local staff that can assist the District with operations if desired.

Kennedy/Jenks is committed to helping the District obtain an affordable, high-quality project for the long-term benefit of the community. We appreciate your consideration of the Kennedy/Jenks construction management team and look forward to discussing this project with you further.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Jeff Savard, P.E.
Vice President

William C. Yates, P.E.
Construction Manager

1. Firm Name and Contact Information

Name

Kennedy/Jenks Consultants, Inc.

Address

Kennedy/Jenks' headquarters are located at:

303 Second Street, Suite 300 South
San Francisco, CA 94107
Telephone: 415.243.2150

This project will be managed from our Oxnard office:

2775 North Ventura Road, Suite 100
Oxnard, CA 93036
Telephone: 805.973.5700

Principal

Keith A. London, P.E., is our Corporate Executive Officer.

The principal-in-charge for this project is Jeff Savard, P.E., who is also a Vice President with the firm.

Kennedy/Jenks Leadership in Construction Management

Kennedy/Jenks' multi-disciplined staff brings a solid background of experience and expertise to construction management projects throughout the Western United States. We provide high-quality professional services on time and within budget, requiring minimal owner involvement.

Kennedy/Jenks provides comprehensive contract administration and construction support/inspection and program management services to municipal and industrial clients throughout the United States. During the past two decades alone, we have provided full construction management services for numerous significant projects up to $150 million in construction cost covering utility infrastructure, environmental restoration, site/infrastructure development, water and wastewater systems, building structures and aviation facilities.

We have a proven track record of construction support services throughout the western United States – successfully completing more than 3,700 projects.

As design and construction have become more sophisticated, so has construction management. As owners you are aware of the complex and demanding task of monitoring and controlling the progress of a construction project. At any moment you have to know the status of each phase of the project and the repercussions any delays or changes in the schedule will have on the project as a whole; you need to be able to pinpoint responsibility for these changes; and establish the cash flows associated with project progress and changes. In today's construction environment the construction manager must proactively minimize the potential for contractor claims with exacting

management of the project documents and schedule. With managing the documents and claims process he must be prepared to defend against contractor additional work, delay, and time extension claims through expert review and analysis.

We are knowledgeable and skillful in guiding the construction activities through the obstacles and problems that can arise; we develop and maintain good working relationships with contractors, public/regulatory agencies, and private individuals and firms involved; and we are readily available and responsive to your needs.

Kennedy/Jenks Consultants offers the following comprehensive construction services to help owners manage their construction projects:

Constructability/Biddability Reviews

- Bid, negotiation, and contract award assistance
- Early purchase of long lead procurement items
- Cost estimates, cost accounting, and
- Preparation of budgets
- Project permitting

Construction Services

- Construction Project Management
- Contract administration and coordination
- Interpretation of plans and specifications
- Quality assurance
- Field inspection
- Project documentation and document control
- Review and certification of progress payments
- Change order analysis and assistance
- Government liaison
- Preparation of record drawings
- Warranty Administration
- Partnering

Program Management

- Planning and programming capital projects
- Project delivery strategy
- Design standards
- Scheduling and project controls
- Revenue planning
- Risk Assessment

Cost Control

- Project budgeting
- Value engineering/Value analysis
- Estimate analysis
- Resource-loaded schedule development
- Cash flow development
- Grant and loan administration
- Cost forecasting

2. Project Understanding and Approach

Project Understanding

The Las Virgenes Water District owns and operations the Tapia Water Reclamation Facility (TWRF) and the Rancho Las Virgenes Composting Facility (Rancho). Sludge from the TWRP is pumped to Rancho where it is processed and dewatered. Centrate generated from the dewatering process requires denitrification prior to being sent back to the TWRF. The District stores the Centrate in one of two existing 700,000 gallon glass lined steel tanks while treatment occurs in the other tank. Because the nitrogen limit at Tapia is low (8mg/l) the Centrate tanks must remain in service to attain compliance with discharge permit nitrogen limits. As a result, there is no redundancy in the Centrate treatment system. In order to rectify this situation, the District has coordinated the design of a new 480,000 gallon glass lined storage tank to allow for Centrate treatment in one of the existing tanks while the other tank is taken out of service for maintenance. The completed tank design has been bid and the contract for the Centrate Storage Tank project is anticipated for award in early September.

In addition to constructing the centrate storage tank, the project includes:

- Tank mixing equipment
- Process piping and valves for the storage tank
- An above ground process piping, valve and flow meter control station for directing Centrate to and from the new storage tank and the existing Centrate tanks
- Significant over-excavation and recompaction at the storage tank location due to previous use as a debris basin
- Site grading and drainage facilities
- Instrumentation, electrical and reprogramming of the SCADA control system

Constructing the valve station and connections to the existing centrate and drain lines will require coordination with the staffs at both the TWRF and Rancho composting facility.

Project Approach

The Kennedy/Jenks approach to performing construction management services work is to become intimately familiar with the record drawings for the existing facility as well as the final approved plans and specifications before construction starts. This prepares our construction team to be ready in advance of the day-to-day issues that will occur on the project and the sequencing of the work involved.

When construction issues do come up, our construction manager/resident engineer will first attempt to resolve the matter directly with the general contractor's superintendent. This will be the primary method of resolving matters before they potentially become a problem. If this approach is not successful, the issue at hand will be discussed in the bi-weekly progress meeting and a dialogue will ensue and be documented. If matters continue and the issue is not resolved, Kennedy/Jenks will prepare written correspondence to the contractor's project manager, requesting that the issue be addressed. In this case, a reference to the requirements in the contract documents

will be presented which will prompt the contractor to comply and resolve the matter at hand. Consistent and thorough documentation is critical when working on all construction projects, and especially those with challenging contractors.

The Kennedy/Jenks team understands the challenges associated with making this project successful and we provide the District with an approach that focuses on partnering with all stakeholders to achieve a common objective: construct the centrate storage tank project that complies with the contract documents while keeping the TWRF and Rancho composting facility operational and minimizing delays. Kennedy/Jenks has identified a set of key issues along with our approach to addressing these issues and the resulting benefits to the District.

Key Project Delivery Issues	Approach	Benefit
Coordinating project requirements with the Contractor	Conduct contractor meeting/ workshop prior to pre-construction meeting.	District expectations for the project are understood and the project starts off as required.
Efficient Contractor Interface	Utilize the Construction Manager as the onsite observer (resident engineer)	Clear and continued communication with the Contractor is established to help ensure project goals are met.
Scheduling/Phasing	Use short term scheduling fragments to outline key sub project timelines.	Manage key milestones that will drive the project to completion.
Coordinating construction with operations staff and an operational plant	Include operations staff on MOPO (Maintenance of Plant Operation) development.	Minimize plant shut down time and overall impacts to plant operations.
Document Control	Provide management tool to drive the question and answer process to completion in a timely manner.	Allow procurement to start sooner and not affect the project timeline for completion.

Coordinating Project Requirements with the Contractor

Often, the challenge with the public bidding and contracting process is that all contractors may not be equally qualified to perform the same work, and most of the time, the Contractor with the lowest responsible bid will be awarded the contract. This process does not guarantee the low bidder comprehends the project intent and goals. Making sure the Contractor fully understands the scope of work involved with the project and what the Districts expectations are will be key to successful completion and delivery of this project. To help ensure this goal is accomplished, Kennedy/Jenks proposes to conduct a Coordination Meeting/Workshop prior to the pre-construction meeting with the Contractor, Design Engineer and District staff, as appropriate, to review the project objectives and goals, existing site conditions, project plans and specifications and other appropriate project documentation, material requirements and workmanship. Meeting with the Contractor and working with the individual from the beginning will help the project get off on the right foot.

Efficient Contractor Interface

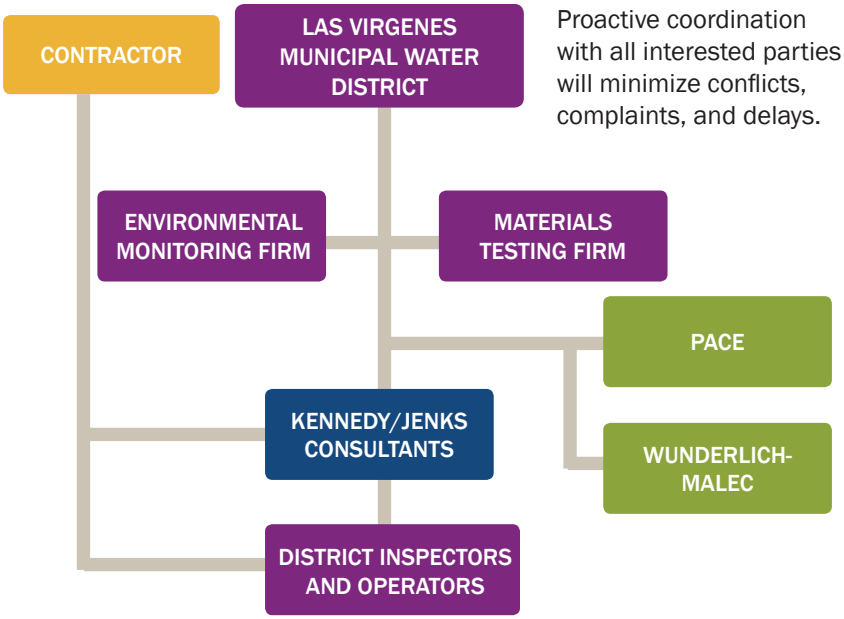
Getting the project started in the right direction is the first step to attaining completion of a successful project. Communicating clearly and continuously with the Contractor and making sure the message maintains its original intent is another step. Kennedy/Jenks proposes to utilize our construction manager as the onsite observer (resident engineer) to preserve and provide this clear, consistent and continuous communication throughout the project duration with the Contractor. By employing this technique we hope to be proactive with recognizing the Contractor's project issues and developing solutions to resolve them quickly. This process was utilized successfully on the Districts recent Third Digester project at the Rancho Las Virgenes Composting Facility.

Scheduling and Phasing

Understanding the critical pieces of equipment and connection requirements, when they are needed and how they are related to existing plant operations are key to scheduling for this project. Maintaining frequent communications with the design engineer to stay on top of submittals and RFI responses is also a key ingredient for the success of this project. Breaking down the overall project schedule into smaller sub-projects makes progress easier to track and drives specific milestones to completion. Ensuring documents are handled timely and submittals and responses are complete is critical. Each team player, including the contractor and design engineer, will need to contribute in order to make the project a success.

Coordinating Construction with Operations Staff and the Operational Plants

District staff at TWRF and Rancho will be impacted by this project. Due to the multiple tie-in connections of the project and continued operation of both plants, a cohesive team is required from start to finish. This requires very frequent communications from the construction manager to the operations staff. If issues come up that the contractor is not responding to, the construction manager will arrange a conference call that day to resolve the matter.



Proactive coordination with all interested parties will minimize conflicts, complaints, and delays.

Document Control

A potential issue could be long lead submittal items not being reviewed in a timely manner. Typically these sorts of issues are related to the mixer, motor-operated actuators, electrical equipment, or even the glass-lined tank. **To mitigate this, the construction manager will work directly with the design engineer to**

confirm or request, when permissible, early release of an item for procurement. The construction manager will ensure that the design engineer responds to RFIs and submittals within the contract-specified time. This will mitigate schedules from extending and will allow the project to be completed on time.

Resource Capacity to Complete the Work

Kennedy/Jenks is a full service, multi disciplinary environmental engineering firm with 27 offices and 450 employees across the United States. We have provided construction management services for more than 3700 projects in the western US with values up to $150 million. The majority of our projects involve improvements related to water/wastewater treatment plants, pipelines, reservoirs and pump stations. We offer full construction management services to part-time inspection or on-call staff augmentation services.

In Southern California, our construction management group is led by a senior construction manager who is supported by a group of full-time inspectors as well as part-time inspectors/engineers. We also have several senior engineers with significant construction management experience who coordinate with our construction management leader on a weekly basis.

We plan to staff your project using experienced construction team members from our local Oxnard office. Our project/construction manager (Bill Yates) works out of our Oxnard office, which is approximately 30 minutes from the project site. For part-time inspection assignments like yours, we provide backup inspectors in case the primary inspector is unable to visit the site due to an emergency. Our backup inspector is located in the Oxnard office as well.

Kennedy/Jenks has the local resources to address all the construction management and inspection needs on your project. We also have backup plans should our construction manager and backup inspector become unavailable.

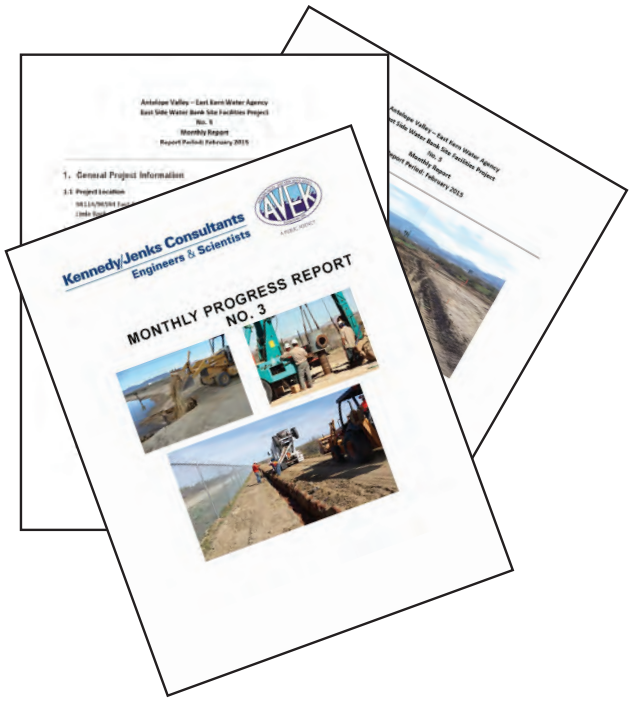
3. Recommended Scope of Work

Based on our understanding of the project, the following scope of services is proposed to manage the construction effort.

Task One — Administrative Tasks

Project management activities will include project planning, organizing staff and resources, budget tracking, quality assurance/control reviews, and on-going communications with the District and project team regarding project status and priorities via email and telephone calls.

The Project Manager/Construction Manager (Bill Yates) will ensure that Kennedy/Jenks' internal quality assurance/quality control procedures are followed throughout the course of this project. Deliverables will be reviewed by a senior staff member to ensure they meet Kennedy/Jenks standards for quality.



Sample Monthly Progress Report

Administrative tasks include:

- **Prepare bi-weekly progress meeting agendas, facilitate the progress meetings and distribute meeting minutes.** The meetings will discuss past work, future work and work on the three-week look ahead schedule. The meetings will include a review of outstanding submittals and RFIs, their priority and their responses, and any additional District design engineer, or District-hired professional support staff.
- **Manage contractor correspondence, submittals, RFIs, Samples, and Shop Drawings.** Submittals and RFIs will be sent to the design engineer for review. Maintain project logs and track distribution and coordination of documents. Maintain electronic and (when appropriate) hardcopy files of correspondence, field memoranda, reports, minutes of project meetings, shop drawings and samples, work change directives, change orders, field orders, clarifications and interpretations of the contract documents, progress reports, daily reports, and other project related documents. Upon completion of the project, provide the District the electronic records on DVD, CD or other electronic storage media acceptable to the District. We have assumed 78 submittal/resubmittals and RFIs for the task.
- **Prepare initial and final contractor punch list.** The initial punch list will be shared with the contractor as items of work are completed and it will also be discussed in the progress meetings. The final punch list will be provided to the contractor in the last 30-45 days of work. Upon completion of the punch list, prepare a letter to the

District indicating the contractor has completed the remaining items on the punch list.

- **Review contractor as-built redline plans throughout the project.** The Contractor supplied redlines will be requested throughout the progress meetings in order to track contractor progress.
- Prepare a monthly project summary report including: original contract amount, total number of change orders, total dollar value of all change orders, current total contract cost, total progress payment requests to date, percent of contract complete on a dollar basis, total number of days of the contract, total number of days added by change order, current total number of days of contract, percent of contract time elapsed, and progress photos. Each monthly report will include a general narrative covering the work completed during the previous month, the work expected to be completed during the following month, status of all pending claims and a review of the Contractor's baseline schedule and monthly updates for conformance to the contract. We have assumed six-month reports for this task.

Task One Deliverables:

- Meeting agendas and minutes for the bi-weekly progress meetings
- Project logs for tracking distribution and coordination of documents
- Transmittals to the design engineer for submittals and RFIs
- Monthly project summary
- Initial and final contractor punch list
- Electronic and hard copy records
- Letter to District indicating the contractor has completed the remaining items on the punch list
- Closeout report that includes: a brief project description of what was constructed, summary of all consultants and contractors involved, summary of project costs, discussion of contractor and subcontractors performance

Task Two — Technical Services

Provide constructability input to assist the District and design engineer in the review of RFIs and submittals. This support will consist of written or verbal feedback as various construction elements of the centrate storage tank project progresses. The intent of this task is to help the District, design engineer and contractor solve issues before they become problems. We have assumed that of the 78 submittal/resubmittals and RFIs, 10 percent of them will require our assistance.

Inspection services will be provided in accordance with Task Four.

Task Three — Budget and Time Management

Budget and time management tasks include:

- **Review Contractor Payment Applications** and prepare a letter for execution of payment by the District. Review work performed by the contractor, and compare with the schedule of values and payment applications submitted by the contractor. Provide verbal and electronic communications to the contractor to develop concurrence on the amount requested each month. Provide recommendations to the District regarding payment based on evaluation of the work performed during the billing period, consideration of any outstanding issues, and in accordance with the contract documents. A total of six (6) pay estimates have been assumed for this task.
- **Prepare a Review of Change Order Requests** in accordance with the construction contract documents. Review and analyze change requests including cost estimates and schedule impacts. Provide recommendations to the District regarding Change Order Requests based on knowledge of the issue(s) and past experience. Kennedy/Jenks will not approve Change Order Requests without the approval of the District. A total of four (4) change order requests reviews are included in this scope of services.
- **Provide Scheduling Services** to track contractor progress/delays and to negotiate change order/delay requests. Of particular importance will be review of contractor schedule submittals and time impact analyses (TIAs) to enforce contractor schedule development and schedule update requirements. In the event the project encounters schedule-related issues and or delays, Kennedy/Jenks will communicate with the District to discuss impacts and any recommended course of actions if necessary. Kennedy/Jenks will communicate any agreed upon actions with the Contractor.

Task Three Deliverables:

- Contractor payment applications for execution by the District
- Monthly electronic communications with the contractor to develop concurrence on the payment amount requested each month
- Change Order Requests in accordance with the construction contract documents
- Final recommendations regarding impacts and the course of actions from schedule related issues and/or delays, if necessary

Task Four — Site Observation

Kennedy/Jenks understands that the District Inspection staff will have limited availability. Therefore, construction administration will accomplish the contract administration and construction oversight work, and Kennedy/Jenks will provide the following staff:

(1) PM/CM/Resident Engineer (Bill Yates, PE) will have a variable level of effort during the project. Bill will host the progress meetings and will be the main client point of contact if issues come up. He will prepare meeting agendas and minutes and monthly progress reports, prepare punchlists, and review change order requests and schedules. Bill will communicate the responsibilities and project requirements directly with the Contractor.

Bill will be onsite part time during the course of the project. It is anticipated that field work will not start until approximately four weeks following the Notice-to-Proceed. Bill's schedule will vary day-to-day depending on the activities. Some days the effort will require full time observation while other days it may be as little as two hours. The level of effort required will vary from day-to-day and week-to-week, depending on the contractor's activities and the availability of District inspectors. Bill's effort will average four (4) hours per day over approximately 22 weeks of active construction.

During his presence onsite, Bill will be responsible for the day-to-day coordination of construction oversight activities, including observation that the work is being completed in conformance with the plans and specifications. This position will assess compliance with the contract documents through quality assurance measurements and review of progress payment applications. Bill will monitor the contractor's work progress, compare contractor progress to the approved baseline schedule and determine appropriate and effective responses.

(2) Document Control Administrator (Masis Acob) will work offsite in our local Kennedy/Jenks office to support document control efforts through project completion.

Kennedy/Jenks will provide observation of construction for the purposes of determining compliance with the technical provisions of the project specifications. This observation service is not in any way an assumption on the part of District or Kennedy/Jenks of responsibility for methods or appliances used by the contractor; for the sufficiency of design or installation of scaffolding, sheeting, or shoring; for the safety of the job; or for compliance by the contractor with laws and regulations. Kennedy/Jenks shall not be held in any way to guarantee the contractor's work, nor to assume responsibility for means, methods or appliances used by the contractor.

Task Four Deliverables:

- **Correspondence with the District.** Bill will coordinate with the contractor and District inspectors. While onsite he will also coordinate with the District's Materials Testing Firm and Environmental Mitigation and Monitoring Firms. He will communicate with the design engineer and District personnel. Bill will also consult with the District in advance of any construction activity that has the potential to affect quality or interrupt operations of the existing facility.
- **Contractor Documentation.** Daily collection of contractor's field documentation for establishing measurement and pay quantities and demonstrating compliance with the contract specifications. During the course of the work, verify the certificates, O&M manuals, and other data required to be assembled and furnished by the

contractor are applicable to the items actually installed and are in accordance with the contract documents.

- **Daily Reports.** Kennedy/Jenks will perform daily onsite observations and inspections and will prepare daily reports that will be sent to the District.
  - Each report will identify the work in progress, personnel, equipment, weather, construction issues, visitors, special inspections performed, meetings held, major deliveries made, Health, Safety, Environmental issues, and other pertinent information during the timeframe at which Kennedy/Jenks is onsite. The Daily Reports will document the progress of the project supplemented by photographs of the contractor's actual progress. Daily reports will include: a record of contractor hours, personnel and equipment on the job site; weather conditions; data relative to work directive changes, change orders, or changed conditions; daily activities; major decisions or directives made; observations in general; and specific observations in more detail, as in the case of observing test procedures. Written records prepared by Kennedy/Jenks staff will represent the information collected while Kennedy/Jenks is onsite.
- **Reporting Unsatisfactory Performance.** Based on construction observations made by Kennedy/Jenks, supplemented where practical by District review and concurrence, report work that is unsatisfactory, faulty, defective, or does not conform to the contract documents; work that has been damaged; and work that does not meet the requirements of observations, tests, or approvals required. Instruct the contractor to correct, replace, or uncover for observation or testing, work that does not meet the requirements of the contract documents, or was installed without proper inspection.
- **Testing, Training, and Start-up Reporting.** Check that tests, training, equipment, and system startups are scheduled and conducted in the presence of appropriate personnel and that the contractor maintains appropriate records thereof, and observe, record, and report appropriate details relative to the test procedures, training, and startups.
- **Accident Reporting.** Report to the District upon observation or notification of the occurrence of any job site accident or near miss.

Task Five — Coordination

Coordination tasks include:

- **Coordinate with the Contractor, District Operations Staff, District Project Manager and Inspectors, Design Engineer (PACE and Wunderlich-Malec), Materials Testing Firm, and Consultant performing the environmental mitigation and monitoring.** This level of coordination will be as-needed throughout the project. We have assembled a total of 14 hours for this task.
- **Coordinate with District Inspection Staff** through onsite meetings to download contractor Progress or discuss issues at hand. Other forms of communication through

email and phone will be provided when District staff may not be available. This coordination will occur daily, when Kennedy/Jenks staff is on the project site.

- **Coordinate with the District's Operations Staff throughout the Project.** Very close coordination will be required as staff may be working adjacent to the contractor. Kennedy/Jenks will be the liaison between the contractor and District staff, while present on the site. When not onsite, Kennedy/Jenks can respond to phone calls or emails from District Staff as issues come up.
- **Conduct Contractor Meeting/Workshop.** Kennedy/Jenks will conduct a contractor coordination meeting/workshop prior to the pre-construction meeting with the District, Design Engineer, and Contractor, to ensure the Contractor fully understands the scope of work involved and the District's expectations. We will conduct pre-interviews with District staff, prepare and distribute meeting materials and agenda, conduct the meeting and prepare and distribute meeting minutes. A total of eighteen (18) hours have been included in this task.

Task Five Deliverables:

- Meeting agenda and minutes for the Contractor Meeting/Workshop.

4. Project Team

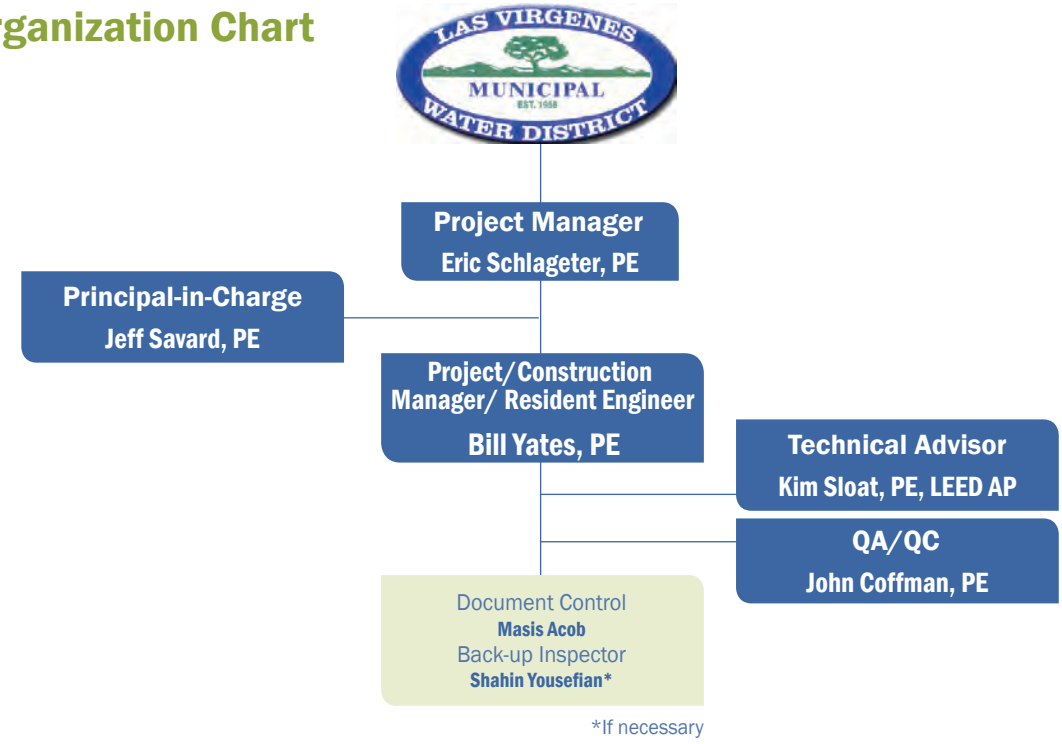
Kennedy/Jenks' multi-disciplined staff brings a solid background of experience and expertise to construction management projects throughout the Western United States. For the Rancho Las Virgenes Centrate Storage Tank Construction Management Services project, we have chosen team members who have solid construction management experience, have worked with the District and each other, and have extensive experience coordinating multiple interested parties.

Our team offers the following benefits to the District:

- Our team understands the dynamics associated with a challenging contractor based on our successful PM/CM's experience working on several other large-scale projects, including Calleguas Municipal Water District's Lake Bard Water Filtration Plant, within Ventura County.
- Based on our experience with the District's Third Digester Project, we know the project site and the existing infrastructure as well as the issues associated with coordinating construction activities, access, staging, equipment deliveries, and operations.
- We understand the level of effort the District desires for construction management when District staff are leading the inspection activities based on our recent experience with the Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade and Third Digester projects. We also know how to coordinate with District management, operations, inspection, and public outreach staff.
- We offer a local and responsive team, and our Construction Manager/Resident Engineer Bill Yates is backed up by a team of local inspectors that can fill in if necessary.

Our team organization and staff profiles are provided on the following pages. Two-page resumes are provided in Appendix A - Resumes. Copies of licenses are provided in Appendix B - Licenses.

Organization Chart



Team Profiles

Bill Yates, PE

Project/Construction Manager

Our team is led by Bill Yates who has 28 years of experience in the water resources/civil engineering field. As Project Manager/Project Engineer, he has been responsible for many projects including water and wastewater treatment, pipeline and pump station design, water storage facilities, and construction inspection. In his career, Bill has designed more than 100,000 linear feet of large-diameter pipelines. He also has managed construction for multiple projects including, most recently, the Third Digester Project for the District, and provided technical review on the Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects. Bill will also be Kennedy/Jenks' lead point-of-contact to the District for this project.

Bill's unique design and construction management background puts him at an advantage to work directly with the contractor, District staff and the design engineering firm on this challenging project. Bill will press the challenging issues to maintain the schedule and control costs in the best interest of the District.

Kim Sloat, PE

Technical Advisor

Kim Sloat with over 40 years of specialized experience in construction management or wastewater treatment, recycled water and multi-disciplinary utility infrastructure projects, Kim has successfully managed the construction of projects around critical operating facilities where the sites have limited areas for construction-related activities such as civil, mechanical, instrumentation and control, and SCADA. Kim managed the $150 million construction program for the Denitrification and Filtration projects at the City of Vacaville's Easterly Wastewater Treatment Plant (EWWTP), a 4-phase program to update the plant to full tertiary treatment.

Jeff Savard, PE

Principal-in-Charge

Jeff's successful track record and wealth of water engineering knowledge provides a solid background to serve as our team's PIC. The majority of Jeff's experience, during his 25-year engineering career, has been with the planning, design, and construction of potable water, wastewater and recycled water systems.

John Coffman, PE

QA/QC

John Coffman will provide QA/QC for this project. His civil engineering career spans 20 years of design and construction management experience, all of it in Ventura County. John has developed relationships with District staff on the 5 mg Reservoir, Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects. John knows the ins and outs of the design and QA/QC process backed up by a solid resume of construction management experience.

Masis Acob

Document Control

Masis is a Staff Engineer with Kennedy/Jenks Consultants. He has experience with civil engineering assisting in the development of contract projects for the U.S. Army, U.S. Government, and Corps of Engineers. In addition, Masis has completed resident engineering and inspection on the AVEK West Avenue H Well Equipping Project in Landcaster, CA. Masis is currently providing document control services on the Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects.

Shahin Yousefian

Backup Inspector

Shahin's background encompasses over 40 years of construction experience in water and wastewater projects, including water treatment plant and sewage treatment plant improvements, and water pipelines. He has experience with both public works and private projects, including the installation of air handling units and boilers, mechanical equipment, hot and chilled water lines of heating and cooling systems, fire sprinkler systems, and plumbing. His projects include a 1.2 million gallon capacity reinforced concrete water reservoir, an intake pump station, sewer and drainage systems, water pipelines and distribution systems, and concrete box and pipe culverts. Shahin is currently the primary inspector on the Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects.

Construction Management at Kennedy/Jenks

Kennedy/Jenks has standardized its construction management procedures to assist company personnel who are involved in providing Construction Management Services to assure consistent, high quality and successful project delivery through construction. These standards are summarized in our Construction Management Guidelines Manual which was recently updated in September 2015. This manual is not intended to cover every issue on every project. However, it is intended to provide general guidance and reference, in concert with the project's contract documents, as a basis for making professional judgments and decisions. The project specific contract documents are the primary source of information and take precedence over our manual, because the contract documents set forth the project's contractual requirements.

Kennedy/Jenks' staff use various construction management software programs to help administer the documentation involved with a construction project. The company has several programs for this use including contract manager and EADOC. In those cases, the forms, logs, requests, etc., contained in the specific software program are utilized by all project participants. In cases where a specific construction management software program is not used, the forms, logs, requests, etc., contained in our manual are used to administer Kennedy/Jenks managed projects unless the owner or client has specific requirements for certain forms and documentation.

Each discrete element in our manual addresses specific risks or needs associated with completion of the project. The success of construction projects is generally measured in the timely delivery of quality products within the authorized budget. Our manual provides Kennedy/Jenks staff the tools and resources to provide proactive management, intervention, and facilitation of the contract work.

Quality Control

The quality of our work products and services affects our financial performance, our reputation in the marketplace, and perceptions of us among our clients, peers and employees. Construction management projects are no different than other projects or services that Kennedy/Jenks provides – a quality project is required to be successful.

The Project Manager is responsible for selecting appropriate staff to provide the necessary reviews. Independent review of work products is required, including but not limited to: communications (emails and letters) that contain professional opinions or recommendations, RFIs, RFQs, Submittals, and Daily Reports.

Work products are always reviewed by the author, who has direct responsibility for the quality of their own work. After the author is satisfied that the work product meets project quality and scope objectives, the material is then be reviewed by a person with sufficient knowledge or experience to provide an appropriate senior or peer review. To assure the quality of CM Services, we use a QC checklist (page 1 of 11 shown on the following page). This checklist is used by the CM as well as senior level reviewers on a periodic basis during the project to assure that CM services provided to the client are meeting the minimum standards established by Kennedy/Jenks as well as meeting the expectations of the client.

Appendix F: CM Services QC Checklist

	CM Services QC Checklist - Verify the following:	Yes	Date	Comments
Note:	References to "Sections" are sections in the "Construction Management Procedures Manual", September1, 2015 version.			
1	**Plans**			
	Are the plans and specifications marked as *"Bid Set"*? (Depending on the client, they may be *"Conformed Set"*.)			
	Are plans neat and organized?			
	Are all plans located in a central location?			
	Are as-built plans current?			
	All change order work shown?			
	All clarifications shown?			
	Are all addenda posted			
2	**Contact List**			
	Emergency Phone List - to include: Client, Contractor's, Project Manager and Project Superintendent, KJ's Project Manager and Construction Manager, Critical Utilities, and Other Entities as appropriate. Hospital, Fire, Police phone numbers should also be posted			
	Contact list current and posted?			
3	**Office Equipment**			
	The equipment information is required for insurance purposes; was the equipment list generated and sent to the KJ regional office immediately after commencement of work on the project?			
	Were updated lists sent as additional equipment was acquired or removed?			
4	**Services**			
	Are service contracts established to maintain servicing for all office equipment? DSL, Waste, Garbage, etc			
	Have invoices been sent to KJ for payment?			
5	**Field Office Bulletin Board**			

6. Subconsultant Information

Kennedy/Jenks is a multidisciplinary engineering firm with 10 offices in California and the resources to address the anticipated needs on this project. We do not anticipate the need for any subconsultants on this project.

7. References

Rancho Las Virgenes Third Digester Project

Las Virgenes – Triunfo Joint Powers Authority

Bill Yates provided construction management services and Kennedy/Jenks provided design engineering services for the Rancho Las Virgenes Third Digester Project. Construction of the project included a new 1 MG digester and adjacent pumping and mixing building. The construction also included replacement of the existing steam heating system for existing Digesters Nos. 1 and 2 with a new hot water heating system and routing of new hot water supply and return lines from the existing Energy Recovery Building to the new digester building. Kennedy/Jenks worked closely with the Las Virgenes Municipal Water District, the lead agency, and Contractor on this $6 million project to maintain operation of the existing digesters during construction since interruptions could not occur.

REFERENCE:
John Zhao, Principal Engineer
818.251.2230

Valley Vista Water Tank Replacement Construction Management

City of San Buenaventura, CA

This project includes the construction of a new one million gallon welded steel, water supply reservoir in the North Ventura Avenue area near Bounds Road and Floral Drive. The old tanks were removed as part of this project, and new native vegetation was planted at the old tank site. Also included in the project was replacement of 1,100 feet of 12 inch PVC water main in Bounds Road to connect the reservoir to the water system and construction of a 1,000 foot long paved access road.

REFERENCE:
Joe McDermott
805-654-7772

Earl Schmidt Intake Pump Station Pump No. 3

Castaic Lake Water Agency

Bill Yates is serving as construction manager for replacement of the Castaic Lake Water Agency's Earl Schmidt Intake Pump Station Pump No. 3 and Discharge Piping. This retrofit project included preparation and installation of a 9,750 gpm vertical turbine pump, a 350 Hp TEFC motor and 24-inch process control ball valve at the 29,250 gpm rated capacity pump station. The project also included associated discharge piping and valves, motor control center modifications, electrical and instrumentation work and SCADA integration. Coordination with the Agency's engineering and operations staff is critical on this project to maintain operation of their Earl Schmidt Water Filtration Plant.

REFERENCE:
Shadi Bader, Senior Engineer
661.513.1280

Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade Projects

Las Virgenes Municipal Water Districts

REFERENCE:
John Zhao, Principal Engineer
818.251.2230

The Las Virgenes Municipal Water Districts Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade Projects have a combined cost of $7.5M. The plant expansion project included adding two diatomaceous earth filters to increase the plant capacity from 15 to 18 MGD. Along with the new filters the project included replacement of the flow control valves, expansion of the body feed system by providing two new hoppers conversion of the filtered water reservoir into a pipe gallery and replacement of the filter pumps. The upgrades at the pump station included a new diesel generator, replacement of the existing propane tank with a diesel fuel tank, installation of a larger surge tank, conversion of the old chlorine room into an electrical room for the new MCC's and VFD's and replacement of flow meters.

Additional effort included managing two separate contracts with two different Contractor's. The interface between these two projects included shutting down the Westlake Pump Station Power, removal of Natural Gas Power and sequencing related to removal of filtered water and raw water pumps. Kennedy/Jenks effort to manage the many issues on these challenging projects resulted in clear documentation of action items and responsibilities of the many team participants.

Water Supply Projects

Antelope Valley East Kern Water District (AVEK), Palmdale, CA

REFERENCE:
Michael Flood, PE
Assistant General Manager/Agency Engineer
661.943.3201

Kennedy/Jenks provided technical evaluations, conceptual and preliminary design, detailed design, permitting, operations support for two water banks in the Antelope Valley. We are currently providing construction management services at the 80-acre Eastside Water Bank in Littlerock, CA, and the new West Avenue H Wellfield. For the Eastside Water Bank, Kennedy/Jenks lead the construction management services for the $8.4M project with a recharge capacity of 9,000 ac-ft/year and a recovery capacity of 8 mgd from four potable extraction wells. This project will be completed in January 2016. For the West Avenue H Wellfield, Kennedy/Jenks lead the construction management services for the $2.3 M project which included three new potable wells, approximately one mile of pipeline, and chlorination facilities.

Constructability Reviews

Castaic Lake Water Agency

In 2015, the Castaic Lake Water Agency requested that Kennedy/Jenks perform several constructability reviews of design projects that were nearing completion. The purpose of these reviews is to identify potential modifications to the plans and specifications that would improve the biddability and constructability of the project and minimize changes and conflicts. These reviews also focus on non-technical aspects of the design with the goal of making the project easier to administer and manage. Kennedy/Jenks performed constructability reviews on the following projects for the Agency in 2015:

- Earl Schmidt Filtration Plant Clearwell CT Improvements Project
- Magic Mountain Pipeline Phase 4 Project
- Earl Schmidt Intake Pump Station Additional Pump Project
- Earl Schmidt Filtration Plant Washwater Return and Sludge System Improvements
- Rio Vista Water Treatment Plant Entrance Gate and Security Kiosk

The Kennedy/Jenks approach to constructability reviews is to gather a group of seasoned construction and technical specialists in the same room to review the design plans and specifications. Comments are summarized on a spreadsheet that includes space for the design engineer to respond to each comment. Once the design engineer has reviewed and responded to all the comments, we conduct a meeting with the owner and design engineer to resolve any outstanding comments or potential modifications.

REFERENCE:
Jason Yim, Principal Engineer
661.297.1600

8. Certificate of Professional Liability Insurance

ACORD

CERTIFICATE OF LIABILITY INSURANCE

10/1/2016

DATE (MM/DD/YYYY) 9/25/2015

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 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	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
INSURED	KENNEDY/JENKS CONSULTANTS, INC. 1370659 303 SECOND STREET, SUITE 300 SOUTH SAN FRANCISCO CA 94107	INSURER B : Lexington Insurance Company	19437
		INSURER C :	
		INSURER D :	
		INSURER E :	
		INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 13702772 **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	Y	Y	GLO5833581	10/1/2015	10/1/2016	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 $ 1,000,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	AUTOMOBILE LIABILITY X ANY AUTO X ALL OWNED AUTOS [ ] SCHEDULED AUTOS X HIRED AUTOS [X] NON-OWNED AUTOS	Y	Y	BAP9326879	10/1/2015	10/1/2016	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX $ XXXXXXX
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $			NOT APPLICABLE			EACH OCCURRENCE AGGREGATE 	$ XXXXXXX $ XXXXXXX $
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	WC9326878	10/1/2015	10/1/2016	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 LIABILITY	N	N	026154151	10/1/2015	10/1/2016	$1,000,000 PER CLAIM $1,000,000 ANNUAL AGGREGATE	

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

CERTIFICATE HOLDER

13702772

SPECIMEN CERTIFICATE OF INSURANCE

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

9. Cost and Rates

Proposal Fee Estimate

Kennedy/Jenks Consultants

PROJECT Description: LVMWD Rancho Las Virgenes Centrate Storage Tank

Proposal/Job Number: B10440009 **8/18/2016**

Classification:	Jeff Stavard (Principal-In-Charge)Technical Advisor)	Kim Sloat (Technical Advisor)	Bill Yates (PM/Construction Manager)	John Coffman (QA/QC)	Shahine Yousefian (Onsite Observer)	Masis Acob (Document Control)	Project Admin.	K/J Total Hours	K/J Total Labor Fees	K/J ODCs Fees	K/J ODCs Markup 0%	Total Expenses	Total Labor + Expenses Fees
Hourly Rate:	$210	$195	$195	$185	$145	$110	$110						
Task 1 - Administrative Tasks													
Task 1 Administrative Tasks			32			90		122	$16,140		$0	$0	$16,140
Task 1 - Subtotal	0	0	32		0	90	0	122	$16,140	$0	$0	$0	$16,140
Task 2 - Technical Services													
Task 2 Technical Services			8	2				10	$1,930		$0	$0	$1,930
Task 2 - Subtotal	0	0	8		0	0	0	10	$1,930	$0	$0	$0	$1,930
Task 3 - Budget and Time Management													
Task 3 Budget and Time Management		4	28	2		6	8	48	$8,150		$0	$0	$8,150
Task 3 - Subtotal	0	4	28		0	6	8	48	$8,150	$0	$0	$0	$8,150
Task 4 Site Observation													
Task 4 Site Observation			416					416	$81,120	$4,350	$0	$4,350	$85,470
Task 4 - Subtotal	0	0	416		0	0	0	416	$81,120	$4,350	$0	$4,350	$85,470
Task 5 Coordination													
Task 5 Coordination			18			14		32	$5,050	$0	$0	$0	$5,050
Task 5 - Subtotal	0	0	18		0	14	0	32	$5,050	$0	$0	$0	$5,050
Total	0	4	502		0	110	8	624	$112,390	$4,350	$0	$4,350	**$116,740**

Kennedy/Jenks Consultants

Client/Address: Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas CA, 91302

Contract/Proposal Date: 18 August 2016

Schedule of Charges

Personnel Compensation

Field Classification Rates	Hourly Rate
Principal-in-Charge	$210
Technical Advisor	$195
Construction Manager	$195
Backup Construction Observer	$145
Document Controller	$110

Office Classification	Hourly Rate
CAD-Technician	$120
Designer-Senior Technician	$155
Engineer-Scientist-Specialist 1	$130
Engineer-Scientist-Specialist 2	$145
Engineer-Scientist-Specialist 3	$160
Engineer-Scientist-Specialist 4	$175
Engineer-Scientist-Specialist 5	$190
Engineer-Scientist-Specialist 6	$215
Engineer-Scientist-Specialist 7	$235
Engineer-Scientist-Specialist 8	$250
Engineer-Scientist-Specialist 9	$270
Project Administrator	$110
Administrative Assistant	$90
Aide	$70

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.

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.

10. Assumptions

The following assumptions were made in preparing this proposal:

- The active construction period will be 184 calendar days.
- Materials inspection, special inspections, and SWPPP preparation will be provided by others.
- Engineering services during construction (submittal review and RFIs) will be provided by the design engineer.
- Any permits will be obtained by others.
- Programming modifications during construction will be provided by the control system engineer.
- The District will perform partial construction inspection services.
- Environmental mitigation and monitoring will be provided by others.

William C. Yates, P.E.

Project/Construction Manager

Education
BS, Civil Engineering, Colorado State University, 1982
MS, Water Resources Planning and Management, Colorado State University, 1987

Registrations
Professional Civil Engineer, California (48658)
Professional Civil Engineer, Oregon (85271)

Years of Experience
28

Professional Summary
William (Bill) Yates has a wide variety of experience in the water resources/civil engineering field. As Project Manager/Project Engineer, he has been responsible for many projects including water treatment, pipeline and pump station design, water storage facilities construction inspection, hydrological and geological studies, water well systems, hydrological analysis testing, storm sewer design, residential land development, airport site selection, and drainage basin, irrigation, and river modeling. In his career, Bill has designed more than 100,000 linear feet of large-diameter pipelines. He also has managed construction for multiple projects.

Project Experience
Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects *–Technical Advisor* - Responsible for working with the construction manager and onsite observer in the development of technical solutions and providing technical advice regarding construction materials and techniques, equipment operation and maintenance, submittal and RFI requirements, and change order elements.

New Third Digester and Existing Digesters Rehabilitation Project, Engineering Services During Construction, Las Virgenes Municipal Water District, Calabasas, CA - *Construction Manager* - Responsible for the project coordination and part-time construction observation for the construction of the District's 1 MG digester and digester pump building. The pump building included pumps for mixing the digester sludge and sludge recirculation pumps for all three digesters. Other improvements included replacement of the existing steam system with a boiler, water pumps, heat exchangers and pipe for heating the new digester as well as the two existing digesters.

Pipeline Design and Construction, Castaic Lake Water Agency, Santa Clarita, CA - *Project Manager* - Responsible for project management, coordination, design, and construction management services of 4,000 feet of 42 inch steel pipeline. The project included tying into an existing 48 inch pipeline, 380 feet of concrete encasement, crossing of several large diameter high pressure gas lines, and coordination with several property owners. This was a fast track project with separate contract documents for pipe fabrication and pipeline installation which was completed within 4 weeks.

Pipeline Design, Casitas Municipal Water District, Oak View, CA - *Project Manager* - Responsible for project management, coordination and design of approximately 1,100 feet of 144 inch steel pipeline. The project includes parallel pipe construction on a site with major constraints, dual connections to the District's only 54 inch gravity mainline (maximum shutdown limitation to 8 hours), in place mortar lining, provisions for chemical diffusion, and two valve vaults.

Pipeline Design and Construction, Castaic Lake Water Agency, Santa Clarita, CA - *Project Manager* - Responsible for project management, coordination and design of 3,500 feet of 42 inch steel pipeline. The project included coordination with the County of Los Angeles' road widening project, coordination with Newhall Land & Farms road widening and I 5 bridge widening projects, separate purchase of pipe and construction contract documents, and development of a three phase construction program.

Chloramination Systems for Various Treatment Facilities, City of San Buenaventura, Ventura, CA - *Resident Engineer* - Responsible for the project coordination and construction inspection for improvements to three City water treatment facilities including new ammonia storage and feed systems, piping modifications, electrical and instrumentation modifications and appurtenant work.

Valley Vista Tank and Water Pipeline, City of San Buenaventura, Ventura, CA - *Construction Manager* - Responsible for project coordination and construction inspection for a new one million gallon welded steel, water supply reservoir in the North Ventura Avenue area near Bounds Road and Floral Drive. The project also included replacement of 1,100 feet of 12 inch PVC water main in Bounds Road to connect the reservoir to the water system and construction of a 1,000 foot long paved access road.

Redwood Trunk Sewer Project, City of Oxnard, Oxnard, CA - *Project Manager* - Responsible for project management, coordination, and design of approximately 16,000 feet of 60 inch diameter gravity sewer, approximately 10,000 feet of 42-inch diameter gravity sewer, approximately 14,900 feet of 36-inch diameter gravity sewer, approximately 4,200 feet of 20-inch diameter force main and replacement of the Hemlock/Patterson Street Pump Station (Pump Station 29). Microtunnel design and construction was utilized for the 42 and 60-inch pipeline while the remaining pipe was constructed utilizing open cut techniques. The project also included bore and jack construction across several railroads and flood control channels, significant traffic control, connections to and abandonment of existing sewers and extensive dewatering. The estimated construction cost of the project was $61.2 million.

Reservoir and Pipeline Design and Construction, Castaic Lake Water Agency, Santa Clarita, CA - *Project Manager* - Responsible for project management and design of a 750,000 gallon storage reservoir and pipeline. The project included replacement of a surface water reservoir with a 75-foot diameter welded steel tank, associated piping appurtenances, paving and drainage facilities, and 1,300 linear feet of 12-inch ductile iron pipe.

Backbone Improvement Program: Calabasas and Agoura Hills Alignments Project, Las Virgenes Municipal Water District, Calabasas, CA - *Project Manager / Project Engineer* - Calabasas Pipeline: Responsible for project management, coordination, and design of approximately 9,700 feet of 30 inch diameter CML&C steel pipeline.

Augora Hills Pipeline: Responsible for project management, coordination, and design of approximately 2,200 feet of 18-inch diameter PVC and 9,300 feet of 16-inch diameter PVC pipeline.

Terra Cotta Well Construction Management Services, Elsinore Valley Municipal Water District, Lake Elsinore, CA - *Construction Manager* - For the design and construction management of the 1,200 gpm aquifer and storage recovery well which h included a passive park consisting of drought tolerant landscaping and benches for local residents.

Kim A. Sloat, P.E., LEED AP

Technical Advisor

Education
BS, Mechanical Engineering, California State University, Chico
MBA, Executive Program, JFK University

Registrations
Professional Mechanical Engineer, California (20123)

Certifications
Leadership in Energy and Environmental Design (LEED), U.S. Green Building Council

Years of Experience
41

Professional Summary

Kim Manages the Kennedy/Jenks Program Management/Construction Management Group. He brings more than 40 years of experience in design, construction, maintenance, and operation of various types of facilities and projects. His experience also includes management, engineering and design, start-up, and installation of more than 50 power generation plant projects throughout the states of Washington and California. He has managed projects including a sports park, transit facilities, wastewater treatment facilities, a parking structure, power plants, pipelines, and hospitals along with managing operating assets of over $1.5 billion dollars. These projects have utilized a number of delivery methods including traditional design-bid-build, design-build, Construction Management at Risk (CMAR), Fee Plus and Integrated Project Delivery. Prior to joining Kennedy/Jenks, Kim held various management roles directing operations for San Francisco peninsula power plants with $10-$20 million capital and $10 million expense budgets.

Relevant Project Experience

Wastewater Treatment Plant Rehabilitation Design and Construction Management, Carmel Area Wastewater District, Carmel, CA - *Construction Manager* - Responsible for engineering services during construction and construction management for this 3-mgd facility rehabilitation Phase 1 project (designed by Kennedy/Jenks). The project included rehabilitation of 12 separate processes at an existing, operating facility. The Kennedy/Jenks team developed a detailed construction sequencing plan which enabled the existing facility to remain operational during construction.

Southeast Water Pollution Control Plant Sludge Thickening Improvement Phase 1 Design Review and Cost Estimate, San Francisco Public Utilities Commission, San Francisco, CA - *Design Engineer* - Design review and engineer's estimate of probable construction cost for the Southeast Water Pollution Control Plant (SWPCP) Sludge Thickening Improvements Phase 1 project. Review of the design for clarity, biddability and constructability.

Construction Management Services, Preconstruction Phase for Treatment and Wet Weather Upgrade Project, Sausalito-Marin City Sanitary District, Sausalito, CA - *QA/QC Reviewer* - Provided constructability review and prequalification of contractors and other services before the construction bids are received for the project. The SMCSD Treatment Plant Upgrade Project was developed to address regulatory compliance, plant operation, reliability, and performance and to prevent wet weather blending events for influent flows of up to 9.0 mgd. The project includes facility and process improvements to the existing treatment operations including the addition of a headworks, new primary clarifier, secondary upgrades, tertiary polishing, and 0.6-MG of influent flow equalization storage. Kim and the team conducted peer review of contract documents for

constructability and operability and developed a detailed construction sequencing plan to maintain plant operations during construction. The team identified 700 items for the client's consideration to enhance the bid documents, reduce risk of contractor change order, and refine the project costs.

Construction Management and Inspection Services for High-Strength Waste Receiving Facility, City of Santa Rosa, Santa Rosa, CA - *QA/QC Reviewer* - Provided QA/QC for the construction of a high strength waste receiving facility at their Laguna Waste Water Treatment Plant. Scope includes construction management and inspection services; monitoring, observing and documenting contractor's progress; review of schedule; maintenance of record drawings; and Facility Startup and Contract Closeout.

Easterly WWTP Improvements - Denitrification (Phase 1, $25 million), City of Vacaville, Vacaville, CA - *Construction Manager*. Provided construction management, document control and inspection support and commissioning services.

- 95% biddability and constructability review
- $150M, 4-phase program upgrading the plant to full tertiary treatment
- Document control maintained using web-based Contract Manager, SharePoint and SlingShot
- Project schedule was maintained using Primavera P6
- Denitrification, increased emergency generation, headworks equipment replacement, equalization basins, and other plant improvements
- Established an atmosphere of collaboration at the start of the project; actively led all stakeholders by facilitating regular partnering meetings and soliciting project evaluations. These partnering efforts created a shared ownership of the project's success and a vested interest in common goals.

Easterly WWTP Improvements, Filtration (Phase 3, $52 million), City of Vacaville, Vacaville, CA - *Construction Manager* - Provided construction management, document control and inspection support and commissioning services for $150M, 4-phase program upgrading the plant to full tertiary treatment project. Conducted 95% biddability and constructability review with a focus on the electrical systems. Project included the installation of pressurized large bore RCP piping, new filtration complex, added secondary clarifier, RAS Pumps, chlorine contact basin expansion, chemical facilities, process and effluent monitoring complexes, digester improvements, added two new influent pumps.

- 95% biddability and constructability review with a focus on the electrical systems
- $150M, 4-phase program upgrading the plant to full tertiary treatment
- Document control maintained using web-based contract manager, SharePoint and SlingShot
- Project schedule was maintained using Primavera P6
- Installation of 36-, 48-, and 60-inch pressurized RCP, new filtration complex, added secondary clarifier, new filtration complex, added secondary clarifier, RAS Pumps, chlorine contact basin

Jeffrey T. Savard, P.E.

Principal-in-Charge

Education
BS, Civil Engineering, California Polytechnic State University, San Luis Obispo, 1990

Registrations
Professional Civil Engineer, California (51156)

Memberships/Affiliations
American Public Works Association
Association of Water Agencies of Ventura County
Channel Counties Water Utilities Committee

Years of Experience
25

Professional Summary
Jeff Savard currently serves as Vice President of the firm and Client Team Leader for the Ventura County office. The majority of his experience has been with the planning and design of potable water, recycled water, and wastewater systems. This experience includes providing project management and engineering duties for booster pumping stations, concrete reservoirs (both conventional and prestressed), welded and bolted steel tanks, groundwater production wells, pipelines (including ductile iron, polyvinyl chloride, and welded steel), surface water treatment plants, groundwater treatment plants using pressure filtration and reverse osmosis, and water recycling facilities.

Jeff has also worked on a variety of public works projects including the planning, design, construction administration, and resident engineering for pump stations, treatment plants, pipelines, reservoirs, drainage systems, sanitary sewer systems, recycled water systems, potable water systems, and various related projects. In addition, he has participated in groundwater management plans, urban water management plans, and potable and recycled water master plans, plus he has extensive experience in land surveying.

Project Experience
Conduit Relocation and Pump Station Design and Construction Management, Castaic Lake Water Agency, Santa Clarita, CA - *Project Engineer* - The project initially involved the design and construction of approximately 200 feet of new 54 inch welded steel pipe to replace a portion of the existing Castaic Conduit under a proposed roadway. Following construction, additional design documents were prepared to install the removed sections of the Castaic Conduit at an adjacent intersection for the future Castaic Conduit alignment. The Castaic Conduit is an existing 54 inch concrete cylinder pipe.

Blending Station No. 3 Water Conditioning Facility and Pumping Plant, City of Oxnard, Oxnard, CA - *Project Manager* - Responsibilities included establishing design criteria, flow schematics, and performing preliminary and final design for a 6,000 gpm manganese treatment facility and three production wells. The facility included a sodium hypochlorite system, ammonia system, pressure filters, office/lab, backwash tank, emergency generator, and fuel tank. One of the three wells was also planned to be injection wells.

Design and Construction Services, Improvements to Zone 330 & Power Booster Pump Stations, City of San Buenaventura, Ventura, CA - *Project Manager* - Evaluation and design of upgrades to the City of San Buenaventura's 330 Zone Booster Pump Station. Upgrades include modifications to the surge tank, the addition of both a pressure reducing and pressure relief valve, the removal of two of

the seven stages from three pumps, and the addition of an electrical interlock to prevent no more than two pumps operating simultaneously.

Design and Construction Administration - 500 Zone Booster Station, City of Santa Monica, Santa Monica, CA - *Project Manager* - Design and Construction Administration of the 500 Zone Booster Station. The project included a buried concrete vault housing a pre-packaged booster station including pumps, electrical equipment, and instrumentation.

Avenue Water Treatment Plant Power Booster Station Improvements, City of San Buenaventura, Ventura, CA - *Project Manager* - Design of the Power Booster Pump Station Replacement Project for the City of San Buenaventura. The project consists of preparing plans and specifications for the replacement of two 7,500 gpm vertical turbine pumps. Included in the project is all new electrical equipment and variable frequency drives.

Preliminary Design Study for H2O, Ventura Regional Sanitation District, Ventura, CA - *Project Manager* - Evaluating the Physical and Hydraulic Requirements for an In-Line Booster Pump, Pipeline, and Storage Tank for a Water Supply System at the Toland Road Landfill. The purpose of the new water supply system is to provide water for dust control and fire suppression.

Garfield Reservoir Replacement Project, City of South Pasadena, South Pasadena, CA - *Project Manager* - The project consists of evaluating alternatives to replace the existing 6.5 MG Garfield Reservoir and 3,000 gpm booster station. The evaluation involved considering both steel and concrete reservoirs based on economic and non-economic factors.

Centralized Water Conditioning Facility and Well No. 14 Pumping Plant, City of Santa Paula, Santa Paula, CA - *Project Engineer* - The project consisted of preparing plans and specifications for a 7,500 gpm manganese removal facility and a 3,200 gpm well pump. Provisions are included to expand the treatment facility to 10,000 gpm. This project included the planning and preliminary design of a future fluoride system.

Chevy Chase 968 Reservoir and Booster Pump Station, City of Glendale, Glendale, CA - *Project Manager* - Project consists of reservoir site design, layout, yard piping, grading and site drainage design. The new reservoir and booster pump station replaced an existing unstable 14.5 million gallon reservoir that was constructed in the 1920s.

Recycled Water Master Plan, City of Oxnard, Planning and Environmental Services, Oxnard, CA - *Principal-In-Charge* - The project consisted of developing a recycled water system for the largest city in Ventura County. It also included preparing an implementation plan to serve as the 'road map' for the City, which addressed such institutional issues as: permitting; recycled water ordinance and administrative code revisions; rates and financing; staffing needs and training; and public outreach strategies; as well as preparing standard details for the City's use in enforcing recycled water requirement on developers.

Azusa Canyon Filtration Plant Pilot Study, Azusa Light and Water Department, Azusa, CA - *Principal-In-Charge* - Project included a three-month pilot study of pressure and submerged MF and UF membrane treatment. The objective of the pilot study was to establish design criteria and verify costs for a proposed 16-MGD expansion of the Canyon WTP. Three different MF and UF systems were piloted on surface water from the San Gabriel Reservoir and San Gabriel River. The study evaluated water quality, organics removal, and membrane operation parameters to demonstrate the efficacy of membrane filtration on these surface water.

John F. Coffman, P.E.

QA/QC

Education
BS, Civil Engineering, California Polytechnic State University, 1995

Registrations
Professional Civil Engineer, California (60754)

Memberships/Affiliations
2012 Chapter President the American Council of Engineering Companies (ACEC)

Years of Experience
20

Professional Summary

John Coffman is a professional engineer with 20 years of civil engineering design, project management, and construction management experience. He is a proven problem-solver with excellent written, verbal, technical, and management skills.

Project Experience

Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects–*Construction Manager* – John coordinated the bi weekly meetings for two separate General Contractor's. He managed the RFI and Submittal efforts, coordinated with Kennedy Jenks and District Inspector's, reviewed; schedules, change orders, and pay requests, prepared written correspondence to General Contractor's and acted as the overall representative for the owner on both projects.

Construction Management Services for the LVMWD 1,235-Foot Backbone Improvements Project 5-MG Tank, Las Virgenes Municipal Water District, Camarillo, CA - *Resident Engineer* - John provided engineering and construction management services for the construction of the District's 5-MG water storage tank.

- Served as Resident Engineer
- Coordinated submittals, RFIs, pay requests and prepared Contractor correspondence
- Coordinated with staff from the City of Westlake Village and Three Springs H.O.A.
- Coordinated with the Division of Safety of Dams representatives

Construction Management Services, Potable Water Pump Station, City of Santa Paula, Santa Paula, CA - *Construction Manager* - John is providing third party Construction Manager Services for the City's reconstruction of the 600 Zone Pump Station.

- Construction Manager for the 600 Zone Pump Station Reconstruction
- Responsible for coordination of materials testing and special inspections
- Coordination with Design Engineer for RFIs, submittals and Contractor correspondence

Construction Management Services, Raw Water Pump Station, Confidential Client, Fresno, CA - *Construction Manager* - For a 6,500 GPM raw water pump station located in a mapped flood plain. The Pump station included five variable frequency drive pumps ranging from 100 HP to 250 HP.

- Serving as Construction Manager for a confidential raw water pump station that includes five variable speed drive pumps and associated piping.

Construction Management Service, 4 MG Pre-stressed Concrete Reservoir and One Mile Pipeline/$6.7 million - *Owner's Representative* - Represented the City of Santa Paula on this project where change orders were 0.25% of Construction Cost.

- Managed bi-weekly meetings, change orders, RFI's, pay requests, and submittals
- Coordinated inspections, daily reporting and communications to the City of Santa Paula
- Performed the design of grading, drainage, street removal and replacement and jack and bore plans

Construction Management Services Award Winning 4 MG Reservoir/Cal Water, Westlake Village, CA - *Construction Manager*

- Ventura County Public Works Project of the year (2011) / ACEC State Merit Award for Water Resources (2011)
- Coordinated submittals/performed inspections for a 50' deep pre-stressed, circular concrete reservoir inside existing 4 MG circular concrete reservoir that had settled 11" on an ancient landslide
- Project included; 27' high reinforced gunnite ring below existing 25' pre-stressed ring wall, a 4' mat slab, rock anchors, steel pipe, valve replacements, 50' deep manholes, site improvements and 10,000 CY of cellular concrete
- Managed Bi-weekly meetings, documented meeting minutes, Change Orders (<0.5%), RFIs and submittal reviews

Crenshaw Forebay and Pump Station, Rolling Hills Estates, CA, Cal Water, Rolling Hills Estates, CA - *Project Manager*

- Prepared seven design alternatives / cost opinions for potable storage and pump station alternatives at two sites. Project consisted of a 21,000 gpm pump station
- Led the Project Technical Memorandum effort

5 MG Potable Water Tank and Pipeline Project, LVMWD, City of Westlake Village, CA - *Design Engineer*

- Project Engineer on a $10.7 Million 5 MG Potable Water Tank and 36" twin steel pipelines
- Secured Division of Safety of Dams approvals, blasting monitoring and reporting and construction sequencing
- Coordinated blasting submittals, reporting, pre and post inspections and monitoring
- Participated in multiple public outreach events
- Prepared plans, specifications, estimate and public bidding documents
- Completed pre-qualification processes for Reservoir and Blasting Contractors

Confidential Raw Water Pump Station and Pipeline, Madera County, CA –*Construction Manager and Project Engineer*

- Prepared the system demands for a 1,500 acre development that served municipal and agricultural Water Demands
- Prepared pump station plans and site civil engineering plans for a 6,500 GPM pump station located in a flood plain
- Prepared construction drawings for 14,000 lineal feet of raw water pipeline from pump station to the proposed Water Treatment Plant

Masis Acob

Document Control

Education

BS, Building & Construction Engineering,
University of Technology,
Baghdad Iraq, 2008
Certificate in Construction Management,
University of California Los Angeles
MS, Civil Engineering, California State
Polytechnic University, Pomona, Present

Certifications

OSHA 30-Hour Safety Training Session
CMIT (Construction Manager in Training)
P6 Oracle certified DRMcNatty & Associates

Memberships/Affiliations

CMAA Construction Management Association
of America
ASCE American Society of Civil Engineering

Years of Experience

3

Professional Summary

Masis is a Staff Engineer with Kennedy/Jenks Consultants. He has experience with civil engineering assisting in the development of contract projects for the U.S. Army, U.S. Government, and Corps of Engineers.

Project Experience

Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade Projects *–Document Control -* Masis is providing technical oversight for the Construction Management Services processing submittals and RFI's, reviewing contractor monthly progress pay applications and the baseline schedule and schedule updates. He also prepared a schedule review report using the claim digger function in P6 and is responsible for preparing the construction monthly reports. The construction cost for this project was $7.5 Million.

600 Zone Pump Station Project, City of Santa Paula, CA-*Project Engineer***-** Masis provided technical oversight for the Construction Management Services and field staffing of resident engineers, inspection, and project controls effort for this project. Masis was part of team who performed bid analysis and provide advice to the city about the best bid. Masis also set up all filing system and provided a documents control efforts and prepared Weekly meeting Agenda and minutes as well as set up submittals meeting to manage long lead items, Masis also Performed a schedule review and evaluated the contractor progress pay application and provided advises to city of Santa Paula. The construction cost was $3.5 Million and the duration was 12 months.

Antelope Valley-East Kern Water Agency, Well Equipment and Chlorination - *Resident Engineer-* This project includes site grading, construction of blow off basin, access roads, construction of well pump equipment , discharge piping and electrical services and instrumentation, Well buildings, meter vault and valve vault . The construction cost was $10 million and the project duration was 12 months. Masis provided oversight for the construction progress as well as prepared daily inspection reports, Monthly report, and review contractor pay application record weekly meeting minutes. Masis was the person in charge in close out phase he prepared punch list items, and coordinate pre commissioning and final inspection with vendors subs and Prime contractor , until issuing the substantial completion.

Castaic Lake Water Agency, ESFPS Wash Water Return and Sludge System, *Staff Engineer* This project includes two new wash water return basins, a new sludge drying bed, a new sludge thickener tank, a new wash water return pump/wet well, and a new sludge vault, plus modifying and expanding the existing wash water returns basins. Masis was part of a team performing a constructability review. In addition, Masis prepared Schedule for the 50% design submittal and 90% design submittal duration of this project is 17 months.

Castaic Lake Water Agency, ESIPS Additional Pump Project, *Staff Engineer* - This Project includes the installation of a new 14 MGD pump at the Earl Schmidt Intake Pump Station (ESIPS). Masis was part of team who performed a constructability review of the 90% design documents and summarized the review comments for consideration by the design team. In addition Masis set up all filing system and provided a documents control efforts and prepared Weekly meeting Agenda and minutes as well as set up submittals meeting to manage long lead items, Masis also Performed a schedule review and evaluated the contractor progress pay application and provided advises to the Agency.

Power Plant Project, US Department of State, Iraq, Green Zone - *Site Engineer* - Provide field oversight preparing the foundations and trenches to Install 8 Generators in US Embassy /Iraq, Preparing daily reports, and Providing Document Control, prepare the Agenda for weekly safety meetings and close out.

Communication and Trenching Project, US Army/DPW Iraq Green Zone - *Project Engineer* - Worked on preconstruction phase and prepare. Time Scheduling using Primavera and Cost Estimate for the infrastructure work.

Shahin Yousefian

Back-up Inspector

Education

Engineering and Construction-related Courses, California State University Los Angeles, Pasadena City College, Los Angeles City College, Western Nevada Community College, Ventura Community College

Certifications

Certified CQM (Construction Quality Control Manager)
ICC/ICBO Certified Reinforced Concrete Special Inspector.
ICC/ICBO Certified Reinforced Concrete Masonry Special Inspector
ICC/ICBO Certified UPC and IPC Plumbing Inspector
IAPMO Certified UPC and IPC Plumbing Inspector
Certified Concrete Field Testing Technician Grade 1
Certified Post-Tensioning Installer (Post-Tensioning Institute)

OSHA Certifications

Worksite Safety 07: Excavations and Power Tools
Worksite Safety 03: OSHA Fall Protection
Fall Protection Equipment
Heat Stress and Fatigue-Related Hazards
Confined Space Entry (Red Vector)
Scaffolding
CPR/AED (International CPR Institute)

Years of Experience

40 years

Professional Summary

Shahin Yousefian's background encompasses over 40 years of construction experience in water and wastewater projects, including water treatment plant and sewage treatment plant improvements, and water pipelines. He has experience with both public works and private projects, including the installation of air handling units and boilers, mechanical equipment, hot and chilled water lines of heating and cooling systems, fire sprinkler systems, and plumbing. His projects include a 1.2 million gallon capacity reinforced concrete water reservoir, an intake pump station, sewer and drainage systems, water pipelines and distribution systems, and concrete box and pipe culverts. On every CM project, Shahin routinely observes the following:

- Electrical conduit installation in accordance with NEC regulations,
- Wire pulling operations in accordance with the technical specifications of the contract documents,
- The wire terminations at the equipment and the control device and the megger testing by the Contractor,
- The tagging of wires in accordance with the technical specification Division 16000

Project Experience

Westlake Filtration Plant Expansion and Westlake Pump Station Upgrade projects *–Inspector -*

Shahin was the onsite observer and performed daily inspections for the Westlake Filtration Plant and the Westlake Pump Station. Shahin conducted inspections of the Contractor's work, coordinated with the material testing firms, prepared field daily reports showing the Contractor's crew, equipment, work performed and overall acceptance of the Contractor's work. He also reviewed the Contractors pay requests and provided feedback to the Construction Manager.

California Department of Water Resources, Crafton Hills Water Reservoir, Yucaipa Valley, CA. *Senior Construction Inspector*: Provided inspection for in-service road construction and earthwork for earthen dam construction.

Central Marin Sanitation Agency, Wastewater Treatment Plant, San Rafael, CA. *Senior Construction Inspector*: Comprehensive wastewater treatment plant upgrade project for handling wet weather flows to the plant in excess of 125 mgd. Work included upgrades to the polymer chemical feed facility, two new primary clarifiers, new serpentine chlorine contact tanks, new effluent pump station and diesel engine generator building, replacement of existing grit clarifiers, addition of a 4 million gallon effluent storage pond, new plant roads and a significant retaining wall system. Construction value was $55 million.

City of Placerville, Hangtown Creek Water Reclamation Facility Improvements, Placerville, CA. *Senior Construction Inspector:* Construction of a $39 million upgrade to existing water reclamation facilities. Project improvements included new relocated headworks with fine screening as well as primary clarifier system modifications, including increased depth and aeration system modifications.

City of Ukiah, Ukiah Water Treatment Plant Improvements and Water Storage Expansion Projects, Ukiah, CA. *Senior Construction Inspector:* Projects totaling $12 million in construction value included site development and excavation, a pre-engineered building expansion, a new pump station located in pre-engineered building, a modular treatment plant, low and high head vertical turbine pumps, two 1.5 MG pre-stressed concrete reservoirs, and one 0.3 MG bolted steel reservoir. Responsibilities included verifying construction compliance, documenting job site activities, measuring earthwork quantities, coordinating material testing, preparing red-lines of record drawings, and documenting field conditions and changes.

Naval Air Station – Lemoore, Various Projects, Lemoore Station, CA. *Construction Quality Control Manager and Inspector*: Projects included design-build contracts for upgrade of 14-mile security fencing, and eight miles of road construction.

Federal Department of Homeland Security, Various Projects, Various Locations. *Construction Quality Control Manager and Inspector*: Projects included a Border Patrol maintenance shop, a fueling station, and office buildings of concrete and masonry.

Nevada Bureau of Water Reclamation, Various Projects, Various Locations, NV. *Construction Quality Control Manager and Inspector:* Projects included Derby Dam Renovation, fish conveyance channel, and spillway using cast-in-place and pre-cast concrete.

United States Army Corps of Engineers, Cadet Barracks, Whidbey Island, WA. *Construction Quality Control Manager and Inspector:* Project included 50 Navy lodge units at Whidbey Island Naval Air Station.

United States Army Corps of Engineers, Readiness Warehouses and Naval Air Station, Fallon, NV. *Construction Quality Control Manager and Inspector*: Cadet 200-unit, 3-story concrete and masonry barracks.

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CIVIL ENGINEER

CERTIFICATE NO.
C 48658

EXPIRATION
06/30/18

WILLIAM CARLYSLE YATES
6352 CHAFFEE STREET
VENTURA CA 93003

Signature _____

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WILLIAM CARLYSLE YATES

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DEPARTMENT OF
Consumer Affairs

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

THIS IS TO CERTIFY THAT PURSUANT
TO THE PROVISIONS OF CHAPTER 7, DIVISION 3 OF THE BUSINESS AND PROFESSIONS CODE

KIM ALLEN SLOAT

IS DULY REGISTERED AS A

PROFESSIONAL ENGINEER

IN

MECHANICAL ENGINEERING

IN THE STATE OF CALIFORNIA, AND IS ENTITLED TO ALL THE RIGHTS AND
PRIVILEGES CONFERRED IN SAID CODE

WITNESS OUR HAND AND SEAL

CERTIFICATE No. 20123

THIS 19TH DAY OF MARCH 1980

STATE BOARD OF REGISTRATION
FOR PROFESSIONAL ENGINEERS

SECRETARY

PRESIDENT

License Search for Professional Engineers and Land Surveyors

Licensee Name:	SLOAT KIM ALLEN
License Type:	MECHANICAL ENGINEER
License Number:	20123
License Status:	CLEAR Definition
Expiration Date:	September 30, 2016
Address:	5437 SOUTHWOOD WAY
City:	ANTIOCH
State:	CA
Zip:	94531
County:	CONTRA COSTA
Actions:	No

Public Record Action(s)

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916 263-2222

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CIVIL ENGINEER

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09/30/17

JEFFREY TODD SAVARD
303 BALDWIN AVE
VENTURA CA 93004

Signature

RECEIPT NO.
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JEFFREY TODD SAVARD

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State of California Department of Consumer Affairs

BOARD FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

This Is To Certify That Pursuant
To The Provisions of Chapter 7, Division 3 of The Business and Professions Code

John Coffman

IS DULY LICENSED AS A

PROFESSIONAL ENGINEER

IN

CIVIL ENGINEERING

In The State of California, and Is Entitled To All The Rights and
Privileges Conferred In Said Code

DEPARTMENT OF CONSUMER AFFAIRS · BOARD FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS · STATE OF CALIFORNIA

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Certificate No C 60754

This 28th day of July, 2000, at Sacramento, California.

BOARD FOR PROFESSIONAL
ENGINEERS AND LAND SURVEYORS

Cindi Christenson
Executive Officer

George L. Shamblee
President

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SHAHIN YOUSEFIAN
REINFORCED CONCRETE SPECIAL INSPECTOR

The individual named hereon is CERTIFIED in the category shown, having been so certified pursuant to successful completion of the prescribed written examination(s).
Expiration date: **November 10, 2017**
No. **5029963**

Not valid unless signed by certificate holder.
ICC certification attests to competent knowledge of codes and standards

SHAHIN YOUSEFIAN
STRUCTURAL MASONRY SPECIAL INSPECTOR

The individual named hereon is CERTIFIED in the category shown, having been so certified pursuant to successful completion of the prescribed written examination(s).
Expiration date: **November 10, 2017**
No. **5029963**

Not valid unless signed by certificate holder.
ICC certification attests to competent knowledge of codes and standards

September 6, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Tapia Primary Clarifier Nos. 2 and 3 Rehabilitation Project: CEQA Determination and Construction Award

SUMMARY:

On July 5, 2016, the JPA Board of Directors authorized a Call for Bids for the Tapia Water Reclamation Facility Primary Clarifier Nos. 2 and 3 Rehabilitation Project. The project involves the repair and rehabilitation of Primary Clarifier Nos. 2 and 3, including removing and replacing the effluent launders, repairing cracked and deteriorated concrete inside the clarifier, and recoating the concrete interior and aluminum beams.

A mandatory pre-bid job walk was conducted on July 26, 2016. Four bids were submitted and publicly opened on August 11, 2016. The lowest responsive bid was submitted by Spiess Construction Company, Inc., in the amount of $763,160, which is approximately 12% lower than the Engineer's Estimate of $867,706.

Staff evaluated the bids and determined the lowest bid to be responsive. The bid did have one minor irregularity: proof of qualifying experience for application of the specified materials was referenced as attached but could not be located. However, Spiess Construction resubmitted the attachment immediately after the bid opening.

RECOMMENDATION(S):

Find that the work is categorically exempt from the California Environmental Quality Act; waive a minor bid irregularity; approve an additional appropriation, in the amount of $299,560; and award a construction contract to Spiess Construction Company, Inc., in the amount of $763,160, for the Tapia Water Reclamation Facility Primary Clarifier Nos. 2 and 3 Rehabilitation Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The adopted Fiscal Year 2016-17 JPA Budget provides funding, in the amount of $646,600, for the project. An additional appropriation of $299,560 is recommended to allow for the award of the construction contract, provide a 10% contingency for change orders that may arise during construction, and fund special coating inspection services and administrative costs for the project.

DISCUSSION:

This project is the second of a multi-year effort to rehabilitate all five primary sedimentation tanks at the Tapia Water Reclamation Facility. Construction work to rehabilitate Primary Clarifier No. 1 was completed in November 2014, at a cost of $241,403.18. The budget for rehabilitation of Primary Clarifier Nos. 2 and 3, in the amount of $646,600, was prepared based on the cost for similar work on the first clarifier, except for several new items of work that were added as a result of "lessons learned" from Clarifier No. 1.

However, subsequent field and design work performed by HDR Inc. for Primary Clarifier Nos. 2 and 3 revealed that the tanks were more deteriorated than Clarifier No. 1. For example, the average depth of deteriorated concrete for Clarifier Nos. 2 and 3 is 1.5 inches as compared to 1.0 inch for Clarifier No. 1. Also, the concrete surface areas requiring coating for Clarifier Nos. 2 and 3 is approximately double, on a per tank basis, as compared to Clarifier No. 1. Additionally, the diffusers for Clarifier Nos. 2 and 3 require replacement instead of recoating as was done for Clarifier No. 1. Together, these factors resulted in a higher cost to rehabilitate Clarifier Nos. 2 and 3, as reflected in the Engineer's Estimate of $867,706.

Because the project requires the application of a specialized epoxy coating to the concrete surfaces, the Administering Agent/General Manager executed a professional services agreement for coating inspection.

The work is categorically exempt from the California Environmental Quality Act (CEQA), pursuant to Section 15301(b) of the CEQA Guidelines, because it involves only minor alterations to an existing facility with no expansion of use. Attached is a Notice of Exemption that staff proposes to complete and file, pending Board approval of the CEQA determination.

Following is a summary of the construction bids:

Spiess Construction Co., Inc.	$763,160.00	12.1% lower than engineer's estimate
Mehta Mechanical Company dba MMC., Inc.	$777,151.00	10.4% lower than engineer's estimate
A. Bates GC, Inc.	$859,000.00	1.0% lower than engineer's estimate
Abhe & Svoboda Inc.	$867,143.00	0.1% lower than engineer's estimate

Spiess Construction Company, Inc. submitted the lowest responsive bid, in the amount of $763,160, and has successfully completed several other projects for the JPA in recent years.

Following is a summary of the anticipated project costs and requested appropriation:

Description	**Cost**
Professional Services:	
Design	$63,422
Construction:	
Construction Award	$763,160
Construction Contingency (10%)	$76,316
Coating Inspection Services	$12,920
Administrative	
District Labor (4%)	$34,096
G&A (7%)	$59,668
Total Project Cost	$946,160
Existing Appropriation	$646,600
Additional Appropriation (proposed)	$299,560

Prepared by: Coleman Olinger, P.E., Associate Engineer

ATTACHMENTS:

Summary of Bid Results
Notice of Exemption

TAPIA WRF PRIMARY CLARIFIER No. 2 and 3 REHABILITATION PROJECT

Owner: Las Virgenes Municipal Water District - Triunfo Sanitation District Joint Power Authority

Bid Opening: 8/11/2016	* marks an allowance	**Spiess Construction Co, Inc.** 1110 E. Clark Avenue, #210 Santa Maria, CA 93455 (805) 937-5859 **License No: 333989** **Bidder Status: Valid**	**Mehta Mechanical Company dba MMC, Inc.** 5901 Fresca Drive La Palma, CA 90623 (714) 521-5022 **License No: 573635** **Bidder Status: Valid**	**A. Bates GC, Inc.** 4685 Runway Street, Unit G Simi Valley, CA 93063 (805) 520-1455 **License No: 902289** **Bidder Status: Valid**	**Abhe & Svoboda, Inc.** 880 Tavern Road Alpine, CA 91901 (619) 659-1320 **License No: 506526** **Bidder Status: Valid**

Tapia WRF Primary Clarifier No. 2 and 3 Rehabilitation Project				**Bidder #1**		**#2**		**#3**		**#4**	
Item #	*Description*	*Quantity*	*Unit of Measure*	*Unit Price*	*Item Total*	*Unit Price*	*Item Total*	*Unit Price*	*Item Total*	*Unit Price*	*Item Total*
1	MOBILIZATION, DEMOBILIZATION, BONDS AND INSURANCE (not to exceed 5% of total based bid)	1	LS		$30,000.00		$38,000.00		$40,000.00		$43,000.00
2	REMOVE AND REPLACE PRIMARY CLARIFIER 2 EFFLUENT LAUNDERS. (4 TOTAL)	1	LS		$65,400.00		$125,000.00		$230,000.00		$89,337.00
3	REMOVE, REHABILITATE, RECOAT, AND REINSTALL PRIMARY CLARIFIER 3 EFFLUENT LAUNDERS	1	LS		$47,000.00		$22,551.00		$152,000.00		$25,558.00
4	MAJOR REPAIR OF CONCRETE SURFACES IN PRIMARY CLARIFIER 2 AND 3 AS SHOWN ON THE DRAWINGS	2,400	SF	$58.00	$139,200.00	60.00	$144,000.00		$120,000.00	$107.85	$258,840.00
5	MODERATE REPAIR OF CONCRETE SURFACES IN PRIMARY CLARIFIER 2 AND 3 AS DIRECTED BY ENGINEER	500	SF	$20.00	$10,000.00	30.00	$15,000.00		$20,000.00	$182.71	$91,355.00
6	REPARE AND RECOAT ALUMINUM BEAMS AND HARDWARE	8	EA	$1,300.00	$10,400.00	2,000.00	$16,000.00		$30,000.00	$1,010.00	$8,080.00
7	PRIMARY CLARIFIER 2 AND 3 CONCRETE COATINGS	7400	SF	$47.40	$350,760.00	29.00	$214,600.00		$158,000.00	$33.48	$247,752.00
8	INSTALL A NEOPRENE CURTAIN IN PRIMARY CLARIFIER 2 AND 3	2	EA	$18,000.00	$36,000.00	25,000.00	$50,000.00		$13,000.00	$2,229.50	$4,459.00
9	REPLACE PLUG VALVE WITH TYPE 304 SST BLIND FLANGE	1	EA	$6,000.00	$6,000.00	2,000.00	$2,000.00		$2,000.00	$498.00	$498.00
10	REMOVE AND REPLACE INFLUENT DIFFUSERS	6	EA	$8,000.00	$48,000.00	4,000.00	$24,000.00		$30,000.00	$2,603.00	$15,618.00
11	RECORD DRAWINGS. RED-MARKED DRAWINGS	1	LS		$2,000.00		$1,000.00		$4,000.00		$4,716.00
12	OPTIONAL ITEM. ADD (OR DEDUCT) PRICE TO REMOVE AND REPLACE PRIMARY CLARIFIER 3 EFFLUENT LAUNDERS (4 TOTAL) IN LIEU OF BID ITEM 3	1	LS		$18,400.00		$125,000.00		$60,000.00		$77,930.00
Bid Total					**$763,160.00**		**$777,151.00**		**$859,000.00**		**$867,143.00**
Contractor:				**Spiess Construction Co, Inc.**		**Mehta Mechanical Company**		**A. Bates GC, Inc.**		**Abhe & Svoboda, Inc.**	

Notice of Exemption

Form D

To: Office of Planning and Research
P.O. Box 3044, Room 212
Sacramento, CA 95812-3044

County Clerk
County of Los Angeles
12400 Imperial Highway
Norwalk, CA 90650

From: (Public Agency) Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302
(Address)

Project Title: Tapia Water Reclamation Facility Primary Clarifier No. 2 and No. 3 Rehabilitation

Project Location - Specific:

Tapia Water Treatment Facility, 731 Malibu Canyon Road, Calabasas, CA

Project Location – City: Calabasas Project Location – County: Los Angeles

Description of Nature, Purpose and Beneficiaries of Project:

Rehabilitation and coating of Primary Clarifier No. 2 and No. 3.

Name of Public Agency Approving Project: Las Virgenes Municipal Water District

Name of Person or Agency Carrying Out Project: Las Virgenes Municipal Water District

Exempt Status: **(check one)**

- ☐ Ministerial (Sec. 21080(b)(1); 15268);
- ☐ Declared Emergency (Sec. 21080(b)(3); 15269(a));
- ☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
- ☒ Categorical Exemption. State type and section number: Existing Facilities: Section 15301.b
- ☐ Statutory Exemptions. State code number:

Reasons why project is exempt:

Minor alternation to existing facilties with no expansion beyond current use.

Lead Agency Contact Person: Coleman Olinger, P.E. Area Code/Telephone/Extension: 818-251-2163

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? ☐ Yes ☐ No

Signature: Date: 9/6/2016 Title: Associate Engineer

☐ Signed by Lead Agency

☐ Signed by Applicant

Date received for filing at OPR:

Revised 2005

September 6, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Recycled Water Seasonal Storage: Basis of Design Report and Next Steps

SUMMARY:

On August 1, 2016, the JPA Board selected Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, as the preferred alternative for the Recycled Water Seasonal Storage Basis of Design Report (BODR). The BODR is now complete and ready for the Board to receive and file. The full report and its appendices will be posted on the websites for both Las Virgenes Municipal Water District (http://www.lvmwd.com/about-us/joint-powers-authority/recycled-water-seasonal-storage) and Triunfo Sanitation District. Also, print and electronic copies will be available at the Board meeting and through the Clerk of the Board.

The Board also directed staff to outline the next steps for implementation of Scenario No. 4. The suggested next steps fall into six categories: (1) funding and financing, (2) advocacy, (3) technical studies, (4) public outreach, (5) demonstration project, and (5) environmental review. Initial actions for implementation involve issuance of requests for proposals for the preliminary design and environmental review of a proposed potable reuse demonstration project, technical studies to verify compliance with draft surface water augmentation regulations, and a preliminary environmental assessment for the proposed full-scale project.

RECOMMENDATION(S):

Receive and file the Recycled Water Seasonal Storage Basis of Design Report and authorize the issuance of requests for proposals for the preliminary design and environmental review of a proposed potable reuse demonstration project, technical studies to verify compliance with draft surface water augmentation regulations, and a preliminary environmental assessment for the proposed full-scale project.

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

There is no financial impact associated with this action. All proposals would be brought back to the JPA Board for review and acceptance. As shown below, a total of $742,789 has been committed for this effort to date. The Fiscal Year 2016-17 JPA Budget includes $1,750,000.

Plan of Action (MWH)	$	174,716
Basis of Design Report (MWH)	$	462,825
Basis of Design Report (MWH) Amendment 1	$	17,000
Basis of Design Report (MWH) Amendment 2	$	11,300
Encino Reservoir Investigation (RMC)	$	52,820
Outreach (Katz & Associates)	$	41,115
Outreach (Katz & Associates) Amendment 1	$	15,383
Financial Consultant (The PFM Group)	$	30,000
LADWP Contribution	$	(62,370)
Total	**$**	**742,789**

DISCUSSION:

Basis of Design Report:

On September 1, 2015, the Board accepted a proposal from MWH Global (MWH) to prepare a Recycled Water Seasonal Storage Basis of Design Report (BODR). The BODR focused on completing the preliminary engineering and investigations for Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, and Scenario No. 5, re-purposing Encino Reservoir for seasonal storage. The BODR addresses items such as hydraulics, regulatory compliance, detailed schedule information, costs, implementation issues, and potential fatal flaws. Three stakeholder and one Board workshop were held as a part of the development of the BODR. At the workshops, the stakeholders were briefed on the technical details of each scenario; identified risks associated with each project; and were polled on their preferred project related to the Board's adopted Guiding Principles, stakeholder developed objectives, and stakeholder identified risks.

On August 1, 2016, the Board selected Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, as the preferred alternative for the BODR, which is now complete and ready for the Board to receive and file. The full report and appendices will be posted on the websites for both Las Virgenes Municipal Water District and Triunfo Sanitation District. Also, print and electronic copies will be available at the Board meeting and through the Clerk of the Board.

Next Steps:

At the August 1, 2016 meeting, the Board directed staff to outline the next steps for implementation of Scenario No. 4. The suggested next steps fall into six categories: (1) funding and financing, (2) advocacy, (3) technical studies, (4) public outreach, (5) demonstration project, and (5) environmental review.

1. Funding and Financing:

The Plan of Action included an activity to engage a financial consultant to identify potential funding sources and financing strategies. Staff solicited proposals and selected The PFM

Group, at a cost of $30,000, to prepare a report summarizing the various state, federal and private funding options; and evaluate the strengths, weaknesses, opportunities and threats (SWOT analysis) of each option. The report will present best case and worst case funding scenarios and the impact of each scenario on the wholesale and retail rate structures of the JPA and its two partner agencies. It will also present a comparison of the cost of Scenario No. 4 to that of the scenario for TMDL compliance at Tapia using advanced treatment prior to discharge. The report is expected to be completed and ready for presentation to the Board at its November meeting.

Eventually, the JPA and its two partner agencies will need to have policy discussions to address several questions, including:

- Would the JPA issue debt financing, if required, for the project; or would each JPA partner agency fund their own share of the project?
- How would the costs of Las Virgenes-only facilities (i.e. Las Virgenes Reservoir and Dam, Westlake Filtration Plant and Pump Station) be shared between JPA partner agencies?
- What would be the future policy for expansion of the recycled water system?

The PFM Group report will help to facilitate these discussions in late 2016 and early 2017.

2. Advocacy:

The Board also engaged Best Best and Krieger (BB&K) to provide advocacy services at both the state and federal levels on August 1, 2016. BB&K recommends that the JPA senior staff and Board Members make a visit to Washington D.C. to discuss Scenario No. 4 with Congressional representatives and administrative agency staff members. BB&K staff recommended the week of February 20, 2017, which is the week prior to the ACWA and CASA conferences. In the meantime, BB&K's Washington D.C. staff will engage the elected officials' staff and agency personnel, such as those from the EPA's Water Infrastructure Resilience Financing Center. The Center is responsible for implementing the Water Infrastructure Finance and Innovation Act (WIFIA). BB&K's Sacramento staff will focus on the various Proposition 1 programs, including the Water Storage Investment Program, to determine the best approach for the JPA to compete for funding.

3. Technical Studies:

There are many technical studies, ranging from pipeline alignment evaluations to the treatment plant site selection, that need to be completed to implement Scenario No. 4. Also, the State Water Resource Control Board (SWRCB) is completing surface water augmentation regulations, which are required by statute to be promulgated by December 31, 2016. Draft regulations and recommendation from a National Water Research Institute expert panel are currently available and not expected to change significantly. It is critical that the approach envisioned by Scenario No. 4 conform to these regulations, so the initial focus will be on studies needed to support regulatory compliance. Of particular interest for regulatory compliance is the diffusion of advanced purified water in the Las Virgenes Reservoir. The work required would include performing a bathymetric survey of the reservoir and developing a hydrodynamic model for the reservoir. Staff recommends issuance of a request for proposals to initiate this work.

4. Public Outreach:

Katz & Associates has begun preparing a communications plan now that a preferred scenario was selected by the Board, and updating the JPA's "leave-behinds" for elected officials at the federal, state and local levels. Also, they are continuing to conduct one-on-one interviews with community leaders with the goal of completing a total of 15 to 20 interviews. The information gathered through the interviews, which will be shared with the Board in October or November, is intended to support development of the communications plan. Specifically, the interviews will be valuable to gauge the level of support for the proposal and identify potential areas of concern.

Additionally, Katz will support staff in a re-naming effort for Scenario No. 4 because the current name, “Recycled Water Seasonal Storage,” no longer describes the key elements of the proposal. The work will include development of a program name and theme line concepts, graphic design concepts for a logo, presentation to JPA, and incorporation of comments. For this work, Katz will draw on its extensive experience preparing communication guidance documents for the WateReuse Association and assisting similar agencies with similar efforts.

Further, staff organized a tour of the Orange County Water District’s Groundwater Replenishment System (GWRS) for the Board on September 21, 2016. GWRS is the world's largest water purification system for indirect potable reuse. The system utilizes highly treated wastewater that would previously have been discharged to the Pacific Ocean and purifies it using a three-step advanced treatment process: microfiltration, reverse osmosis and ultraviolet light disinfection with hydrogen peroxide. The process produces high-quality water that meets or exceeds all state and federal drinking water standards. The treatment process is very similar to that proposed for Scenario No. 4. A second tour will be scheduled because several Board Members have conflicts on September 21st.

5. Demonstration Project:

Most agencies that have undertaken indirect potable reuse projects have started with a pilot or demonstration project. These projects, which can vary in size, generally serve three essential goals: support public outreach and acceptance, validate treatment techniques, and provide operator training. Among these goals, the primary focus would be on public outreach and acceptance, providing customers with an opportunity to see, feel and taste the water through public tours. Staff recommends that the JPA move forward with a demonstration project, sized in the range of 75 to 100 gallons per minute. A demonstration project of this size would allow the use of full-scale treatment components rather than bench-scale versions. The current thinking is to install the demonstration project in the old, unused Las Virgenes Municipal Water District headquarters building and utilizing the former Board room as a “learning center" for public outreach events. Staff believes the demonstration project would be foundational for public outreach and acceptance, so issuance of a request for proposals to move forward with preliminary design and environmental review is recommended. This work would also position the JPA well to apply for grant funding that is available through the U.S. Bureau of Reclamation and others for demonstration projects.

6. Environmental Review:

Although an Initial Study has not yet been completed for Scenario No. 4, it is likely that an Environmental Impact Report will be required. There are many complex environmental issues, ranging from traffic impacts during pipeline installation to aesthetic mitigation for the proposed advanced water treatment plant, that will need to be analyzed. Initial screening of potential

environmental issues through a Preliminary Environmental Assessment would support the future analysis and study. A Preliminary Environmental Assessment would supplement, rather than replace, the environmental review required pursuant to the California Environmental Quality Act and National Environmental Policy Act. Staff recommends issuance of a request for proposals to move forward with a Preliminary Environmental Assessment.

Prepared by: David R. Lippman, P.E., Director of Facilities and Operations