

**LAS VIRGENES - TRIUNFO
JOINT POWERS AUTHORITY
AGENDA**

4232 Las Virgenes Road, Calabasas, CA 91302

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

November 7, 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: Special Meeting of October 5, 2016 (Pg. 3)

Approve

5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A TMDL Implementation Plan Update

6 ACTION ITEMS

A 2017 JPA Board Meeting Calendar (Pg. 11)

Review the 2017 JPA Board Meeting Calendar, make any scheduling adjustments, and select a date and time for a special Board workshop to discuss institutional issues related to the Pure Water Project Las Virgenes-Triunfo.

B Tapia Chemical Building Roof Replacement Project: Award (Pg. 14)

Accept the proposal from L&L Roofing and authorize the Administering Agent/General Manager to execute a contractual services agreement, in the amount of \$55,000, for the Tapia Chemical Building Roof Replacement Project.

C Digester No. 1 Rehabilitation Project: Award of Design Contract (Pg. 24)

Accept the proposal from Pacific Advanced Civil Engineering, Inc., and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$53,694, for design of the Digester No. 1 Rehabilitation Project.

7 BOARD COMMENTS

8 ADMINISTERING AGENT/GENERAL MANAGER REPORT

9 FUTURE AGENDA ITEMS

10 INFORMATION ITEMS

A 18-inch Recycled Water Pipeline Joint Bonding Repair Project: Final Acceptance (Pg. 56)

11 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

12 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)

13 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
SPECIAL MEETING**

5:00 PM

October 5, 2016

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Mark Norris.

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, Lewitt, McReynolds, Orkney, Paule, Peterson, Polan, Renger, and Wall.

Absent: Director(s): Iceland (arrived at 5:03 p.m.)

2. APPROVAL OF AGENDA

Director Paule moved to approve the agenda as presented. Motion seconded by Director Renger. Motion carried by the following vote:

AYES: Caspary, Lewitt, McReynolds, Orkney, Paule, Peterson, Polan, Renger, Wall

NOES: None

ABSENT: Iceland

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR

A Minutes: Regular Meeting of September 6, 2016 and Special Meeting of September 21, 2016 - Approve

Director Caspary moved to approve the Consent Calendar as presented. Motion seconded by Director McReynolds. Motion carried by the following vote:

AYES: Caspary, Lewitt, McReynolds, Orkney, Paule, Peterson, Polan, Renger, Wall

NOES: None

ABSENT: Iceland

5. **ACTION ITEMS**

A Tapia Water Reclamation Facility Process Air Improvements Project: Environmental Review and Design

Accept the proposal from Pacific Advanced Civil Engineering, Inc., and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$215,216, for the environmental review and design of the Tapia Water Reclamation Facility Process Air Improvements Project.

Administering Agent/General Manager David Pedersen presented the report.

Director Iceland arrived at 5:03 p.m.

Director Caspary moved to approve Item 5A. Motion seconded by Director Iceland.

Brett Dingman, Water Reclamation Manager, responded to questions related to the reason that variable speed drives could not be used on the existing blowers, investigating the salvage value of the old blowers and air diffusers, and the cost of the proposed equipment on the open market, which is dependent upon the technology selected.

Motion carried unanimously.

B Indirect Potable Reuse Using Las Virgenes Reservoir: Potential Institutional Issues

Provide feedback on the potential institutional issues associated with indirect potable reuse using Las Virgenes Reservoir.

Administering Agent/General Manager David Pedersen presented the report.

Director Orkney suggested that the Board form a subcommittee to bring back suggestions to the full Board.

Director Paule expressed support with the formation of a subcommittee. He inquired regarding the process for staff's analysis and bringing back items to the Board. Administering Agent/General Manager David Pedersen responded that he and Triunfo Sanitation District Manager Mark Norris could meet to discuss and narrow down the most challenging items to bring back for the Board's consideration.

Director Paule expressed concern with the challenges that Triunfo Sanitation District might face in order to secure separate financing, and he suggested that the JPA Board seek financing as a joint effort.

Chair Peterson expressed concern with the formation of a subcommittee and suggested that the Board schedule a workshop after Mr. Pedersen and Mr. Norris meet.

Director Orkney expressed support for holding a workshop similar to the stakeholders' workshops.

Director McReynolds stated that cost would be the primary concern, such as the cost to treat the water per acre foot at the Westlake Filtration Plant.

Chair Peterson expressed concern that the State Revolving Fund (SRF) was dwindling quickly. Administering Agent/General Manager David Pedersen noted that the SRF program works by leveraging the funds to keep it revolving, and the State is looking at seeking authorization to further leverage the funds. He stated that staff expects that the program would be sufficiently funded in the long-term; however, there were concerns that not all projects would be funded in the near-term. He also stated that it was important for the JPA to express the importance of SRF funds through advocacy efforts in Washington D.C.

C Recycled Water Seasonal Storage Effort: Re-naming Options

Provide feedback on the preferred logo, program name and theme line for the Recycled Water Seasonal Storage effort.

Administering Agent/General Manager David Pedersen presented the report and introduced Karen Snyder and Patsy Tennyson from Katz & Associates.

Karen Snyder presented a PowerPoint presentation, which included options for the program name, logo design, and theme line. She recommended Option No. 4 for a logo design with the program name and theme, "Las Virgenes-Triunfo, Pure Water, Bringing Water Full Circle."

A discussion ensued regarding adding the term "Project" or a similar modifier after "Pure Water." Jeff Reinhardt, Public Affairs and Communications Manager, stated that the term "Project" could be a trigger for the CEQA process. He

suggested that other modifiers could be used such as “Program,” “Initiative,” or “System.” He stated that the term “Pure Water” would allow for the development of outreach materials for distribution in Washington D.C. and Sacramento. He also stated that the term “Pure Water” was becoming a term of the art in terms of how the terms “Direct Potable Reuse” and “Indirect Potable Reuse” are referenced.

Director Lewitt noted that many stakeholders and ratepayers are not familiar with the term “Pure Water” as opposed to “Indirect Potable Reuse,” which he believed was more descriptive. He suggested using the terms “Using” or “Serving” instead of “Taking Our” from “Taking Our Water Full Circle”. He referred to the logo and expressed concern with the use of half tones for advertising purposes.

Patsy Tennyson noted that the Water Reuse Research Foundation explored language and terminology, and the terms “Pure” or “Purified” resonated well with the public. She also noted that not many people were aware of the nuances of the term “Indirect Potable Reuse,” and she recommended not using the terms “Indirect Potable Reuse” or “Direct Potable Reuse.”

Director Orkney suggested using the term “Advanced Water Purification” rather than the term “Pure Water.” She stated that she agreed with not using half tones for printing purposes and with using some green color in the logo when advertising in color. She also expressed support for the program name and theme line “Pure Water Program, Bringing Our Water Full Circle.”

Director Polan suggested that the logo needed more color. He questioned using the name “Las Virgenes-Triunfo” above the theme line and suggested a more regional name such as “Conejo Valley.” He also expressed support for the theme line “Safe. Sure. Sustainable.”

Director Iceland expressed support for the program name “Pure Water” with a modifier such as “Initiative,” “Program,” or “System.” He also expressed support for the theme line “Safe. Sure. Sustainable.”

Director Renger expressed support for the program name, logo, and theme line as shown on Page 21 of the agenda with the removal of the inner arrow and making the other arrow bolder.

Director McReynolds expressed support for adding a modifier such as “Program” or “Initiative;” however, he was concerned with the logo of the water drop with circles. He expressed his preference for the program name, logo, and theme line as shown on Page 23 of the agenda and as shown on Page 22 with just a circle and no arrow. He also expressed support for the theme line “Safe. Sure. Sustainable.” and questioned the meaning of the theme line “Taking Our Water Full Circle.”

Director Wall expressed support for all of the program names, logos, and theme lines presented. He also expressed support for the program name “Advanced Water Purification.”

Chair Peterson stated that he agreed with the suggestions for the logo to have one circle instead of two. He suggested reversing the order of the program name and “Las Virgenes-Triunfo”. He expressed concern with the reason that the term “Project” could not be used because it would not be a project until it is approved, which would then start the CEQA process. He also expressed support for using the terms “Project,” “Program,” “Purified Water,” and “Bringing Water Full Circle.” He questioned the meaning of the term “Sure” in the theme line as shown on Page 23 of the agenda, and he expressed support for the terms “Safe” and “Sustainable.”

Chair Peterson moved to approve Option No. 4 with the program name, logo and theme line as recommended on the PowerPoint presentation, with the removal of the middle green arrow, and the following: “Pure” or “Purified Water Project” “Las Virgenes-Triunfo” “Bringing Water Full Circle.” Motion seconded by Director Orkney. Motion carried by the following vote:

AYES: Caspary, Lewitt, Orkney, Paule, Peterson, Polan, Renger, Wall

NOES: Iceland, McReynolds

ABSTAIN: None

ABSENT: None

A discussion ensued regarding using the term “Project.” Authority Counsel Wayne Lemieux stated there would be no issue using the term “Project” in terms of CEQA.

6. BOARD COMMENTS

Director McReynolds reported that he provided an update on the JPA’s Pure Water Project to the Ventura County Board of Supervisors.

7. ADMINISTERING AGENT/GENERAL MANAGER REPORT

Administering Agent/General Manager David Pedersen reported that several Boardmembers attended the field trip to the Orange County Water District’s Groundwater Replenishment System on September 21st. He noted that a second field trip would be held on November 14th. He stated that a draft copy of the comment letter to the California Regional Water Quality Control Board regarding the 2013 Malibu Creek Watershed Nutrients and Sedimentation Implementation Plan was provided to the Board. He noted that the comment letter would be due on October 13th.

Chair Peterson suggested scheduling a tour of a smaller scale plant such as the one operated by Eastern Municipal Water District. Administering Agent/General Manager David Pedersen responded that staff would explore this option.

8. FUTURE AGENDA ITEMS

None.

9. INFORMATION ITEMS

A Recycled Water Seasonal Storage: Summary of One-on-One Stakeholder Interviews

Director Polan referred to Summary Item No. 11, Trusted Sources for Reliable Information, and inquired whether there was a way to rate or evaluate the responses or queries. Patsy Tennyson, representing Katz & Associates, responded that the research method used was not generalizable to the public as a whole and that they did not rank individual's responses. She noted that several of the people interviewed were not familiar with indirect potable reuse and several people suggested ways to engage the public. She also noted that there was a preference for going out to the public in order to engage them rather than having the public come to a Board meeting.

Director Orkney expressed concern that the interviews were weighted towards Las Virgenes and only one person from Oak Park was interviewed. Ms. Tennyson responded that several people who were scheduled to be interviewed did not respond to phone calls or email.

Director McReynolds stated that it was important for the JPA to have an education plan to inform the public, and he expressed support for going out to the public.

B Tapia NPDES Effluent Limit Exceedances: Settlement Offer No. R4-2016-0179

10. PUBLIC COMMENTS

None.

11. CLOSED SESSION

A Conference with District Counsel – Potential Litigation (Government Code Section 54956.9): One Case

In the opinion of District Counsel, disclosure of the identity of the litigants would be prejudicial to the District.

B 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 **5:58 p.m.** and reconvened to Open Session at **6:31 p.m.**

Authority Counsel Wayne Lemieux reported that during the Closed Session, the Board received progress reports regarding the TMDL and FOIA cases. He also reported that Administering Agent/General Manager David Pedersen presented the settlement offer from the Los Angeles Regional Water Quality Control Board/State Water Resources Control Board to resolve an administrative civil liability complaint, and the Board authorized staff on how to proceed. He noted that staff would report back once a settlement agreement is finalized.

12. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **6:32 p.m.**

Glen Peterson, Chair

ATTEST:

Michael Paule, Vice Chair

November 7, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: General Manager

Subject : 2017 JPA Board Meeting Calendar

SUMMARY:

The JPA Board regularly meets on the first Monday of each month. When the first Monday of a month falls on a holiday, the Board meeting is held the following day. As previously approved by the Board, the March and September JPA Board meetings are held at the Oak Park Library. Attached for reference is the 2017 JPA Board Meeting Calendar.

The first Monday of January 2017 falls on the observed New Year's Day holiday; therefore, the regular meeting will be held on Tuesday, January 3, 2017. The first Monday of September 2017 falls on the Labor Day holiday; therefore, the regular meeting will be held on Tuesday, September 5, 2017.

RECOMMENDATION(S):

Review the 2017 JPA Board Meeting Calendar, make any scheduling adjustments, and select a date and time for a special Board workshop to discuss institutional issues related to the Pure Water Project Las Virgenes-Triunfo.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

Prepared by: Josie Guzman, Executive Assistant/Clerk of the Board

ATTACHMENTS:

2017 Board Meeting Calendar

2017

JANUARY						
S	M	T	W	T	F	S
1	2	3 JPA	4	5	6	7
8	9	10 LV	11	12	13	14
15	16	17	18	19	20	21
22	23	24 LV	25	26	27	28
29	30	31				

FEBRUARY						
S	M	T	W	T	F	S
			1	2	3	4
5	6 JPA	7	8	9	10	11
12	13	14 LV	15	16	17	18
19	20	21	22	23	24	25
26	27	28 LV				

MARCH						
S	M	T	W	T	F	S
			1	2	3	4
5	6 JPA <small>Oak Park</small>	7	8	9	10	11
12	13	14 LV	15	16	17	18
19	20	21	22	23	24	25
26	27	28 LV	29	30	31	

APRIL						
S	M	T	W	T	F	S
						1
2	3 JPA	4	5	6	7	8
9	10	11 LV	12	13	14	15
16	17	18	19	20	21	22
23	24	25 LV	26	27	28	29
30						

Passover Apr 11-12 (begins at sundown Apr 10)

MAY						
S	M	T	W	T	F	S
	1 JPA	2	3	4	5	6
7	8	9 LV	10	11	12	13
14	15	16	17	18	19	20
21	22	23 LV	24	25	26	27
28	29	30	31			

JUNE						
S	M	T	W	T	F	S
				1	2	3
4	5 JPA	6	7	8	9	10
11	12	13 LV	14	15	16	17
18	19	20	21	22	23	24
25	26	27 LV	28	29	30	

	JPA Meeting
	LV Meeting
	Holiday – District offices closed

2017

JULY						
S	M	T	W	T	F	S
						1
2	3 JPA	4	5	6	7	8
9	10	11 LV	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	LV				

AUGUST						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7 JPA	8 LV	9	10	11	12
13	14	15	16	17	18	19
20	21	22 LV	23	24	25	26
27	28	29	30	31		

SEPTEMBER						
S	M	T	W	T	F	S
					1	2
3	4	5 JPA <small>Oak Park</small>	6	7	8	9
10	11	12 LV	13	14	15	16
17	18	19	20	21	22	23
24	25	26 LV	27	28	29	30

OCTOBER						
S	M	T	W	T	F	S
1	2 JPA	3	4	5	6	7
8	9	10 LV	11	12	13	14
15	16	17	18	19	20	21
22	23	24 LV	25	26	27	28
29	30	31				

Rosh Hashana Sept 21-22 (begins at sundown Sept. 20)
Yom Kippur Sept. 30 (begins at sundown Sept. 29)

NOVEMBER						
S	M	T	W	T	F	S
			1	2	3	4
5	6 JPA	7	8	9	10	11
12	13	14 LV	15	16	17	18
19	20	21	22	23	24	25
26	27	28 LV	29	30		

DECEMBER						
S	M	T	W	T	F	S
					1	2
3	4 JPA	5	6	7	8	9
10	11	12 LV	13	14	15	16
17	18	19	20	21	22	23
24	25	26 LV	27	28	29	30
31						

Chanukah Dec. 13-20 (begins at sundown Dec 12)

	JPA Meeting
	LV Meeting
	Holiday – District offices closed

November 7, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Tapia Chemical Building Roof Replacement Project: Award

SUMMARY:

The original circa 1980 asphalt/gravel roof, including skylights and appurtenances, on the chemical building at the Tapia Water Reclamation Facility has begun to fail and requires replacement. A request for proposals for the roof replacement was issued on September 13, 2016. Three proposals were received from qualified vendors. Staff recommends the Board accept the proposal from L&L Roofing and authorize the Administering Agent/General Manager to execute a contractual services agreement, in the amount of \$55,000, for the Tapia Chemical Building Roof Replacement Project.

RECOMMENDATION(S):

Accept the proposal from L&L Roofing and authorize the Administering Agent/General Manager to execute a contractual services agreement, in the amount of \$55,000, for the Tapia Chemical Building Roof Replacement Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds for the work are included in the adopted Fiscal Year 2016-17 JPA Budget under CIP No. 10624. The cost of the project is allocated 70.6% to LVMWD and 29.4% to Triunfo Sanitation District.

DISCUSSION:

Background:

The roof of the chemical building at Tapia is over 30 years old and has developed leaks in

numerous locations. The age and condition of the roof, skylights and rain gutters warrant a complete replacement of the roof.

Request for Proposals Process:

The attached request for proposals was posted on the LVMWD's website and sent to vendors who had previously expressed an interest in roofing projects. Three proposals were received; L&L Roofing of Chino submitted the lowest responsive proposal, in the amount of \$55,000.

Bid Summary:

Following is a summary of the bids:

Bidder	Bid Total
L&L Roofing	\$55,000
Best Contracting Services	\$55,390
4 Seasons Roofing, Inc.	\$77,860

Prepared by: Doug Anders, Administrative Services Coordinator

ATTACHMENTS:

Request for Proposals for Tapia Chemical Building Roof Replacement Project

LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 Las Virgenes Road, Calabasas, California 91302



REQUEST FOR PROPOSAL #16-01

For

Tapia WRF Chemical Building Roof Replacement

Proposal Issue Date

September 13, 2016

Proposal Submittal Due Date

3:00 p.m. on September 29, 2016

MANDATORY PRE BID SITE EVALUATION:

***** 9 AM - September 20, 2016 *****

REQUEST FOR PROPOSAL #16-01

The Las Virgenes Municipal Water District Facilities and Operations Division is issuing a Request for Proposal (RFP) #16-01 for the Tapia Water Reclamation Facility Chemical Building Roof Replacement.

Sealed Proposals: Vendor will deliver one (1) original and two (2) copies to the following address:

Las Virgenes Municipal Water District
Facilities and Operations
ATTN: Doug Anders
4232 Las Virgenes Road
Calabasas, CA 91302

By 3:00 pm on Thursday, September 29, 2016

This submission shall include the entire Request for Proposal document and any amendments if issued.

Proposals received after the above-cited time will be considered a late quote and are not acceptable unless waived by the Director of Operations.

- Please clearly mark the envelope as follows: "SEALED RFP #16-01".
- Please direct purchasing and procedural questions regarding this RFP to Doug Anders at (818) 251-2157.
- Please direct any technical questions regarding this RFP to Darrell Johnson at (818) 251-2236.

I. PROPOSAL SPECIFICATIONS

Definitions: “**District**” is the Las Virgenes Municipal Water District.

“**Bidder**” an individual or business submitting a bid to Las Virgenes Municipal Water District.

“**Contractor**” one who contracts to perform work or furnish materials in accordance with a contract.

Purpose of Proposal: The chemical building at the Tapia Water Reclamation Facility is in poor condition and needs to be re-roofed.

Proposal Terms:

- A. District reserves the right to reject any and all proposals received as a result of this RFP. If a proposal is selected, it will be the most advantageous regarding price, quality of service, the Vendor’s qualifications and capabilities to provide the specified service, and other factors which District may consider. The District does not intend to award a Bid fully on the basis of any response made to the proposal; the District reserves the right to consider proposals for modifications at any time before a Bid would be awarded, and negotiations would be undertaken with that provider whose proposal is deemed to best meet the District’s specifications and needs.
- B. The District reserves the right to reject any or all bids, to waive or not waive informalities or irregularities in bids or bidding procedures, and to accept or further negotiate cost, terms, or conditions of any bid determined by the District to be in the best interests of the District even though not the lowest bid.
- C. The price quotations stated in the bidder’s proposal will not be subject to any price increase from the date on which the proposal is opened by the District to the mutually agreed-to date of Bid.
- D. Proposals must be signed by an official authorized to bind the provider to its provisions for at least a period of 90 days. Failure of the successful bidder to accept the obligation of the Bid may result in the cancellation of any award.
- E. In the event it becomes necessary to revise any part of the RFP, addenda will be provided, deadlines for submission of the RFP’s may be adjusted to allow for revisions. The entire proposal document with any amendments should be returned in triplicate. To be considered, original proposal and two copies must be at the District on or before the date and time specified.
- F. Proposals should be prepared simply and economically providing a straightforward, concise description of the vendor’s ability to meet the requirements of the RFP. Proposals shall be written in ink or typewritten. No erasures are permitted.

Mistakes may be crossed out and corrected and must be initialed in ink by the person signing the proposal.

II. VENDOR QUALIFICATIONS

The proposal must include all the following information. Failure to do so could result in disqualification.

1. List at least four (4) references including names, addresses, telephone numbers and contact persons of client for whom you have performed similar services as requested in this proposal.
2. List the contracts recently completed by your firm, stating approximate gross cost for each, and the month and year completed.
3. List your major equipment on hand.
4. Provide a copy of your license/certification.
5. State how long you have been operating under your present company name.
6. Have you ever defaulted on a contract?
7. If yes to #6, please describe the circumstances for the default(s).
8. Bidder's qualifications, years in business, experience in providing the level and type of service specified in the proposal.
9. Proof of Department of Industrial Relations registration.

III. STANDARD PROVISIONS FOR CONTRACTS

If a contract is awarded, the selected bidder will be required to adhere to a set of general contract provisions which will become a part of any formal agreement. These provisions are general principles which apply to all contractors of service to District such as the following:

INDEMNIFICATION

Contractor shall defend, indemnify, and hold harmless District, its officers, employees and agents, from and against loss, injury, liability, or damages arising from any act or omission to act, including any negligent act or omission to act by Contractor or Contractor's officers, employees, or agents. Contractor's duty to indemnify and defend does not extend to the damages or liability caused by the District's sole negligence, active negligence, or willful misconduct.

INSURANCE

(a) Contractor shall procure and maintain, for the duration of this Agreement, insurance against claims for injuries to persons or damages to property arising from or in connection with the performance of the work hereunder by the Vendor, officers, agents, employees, or volunteers.

(b) Contractor shall provide the following coverage:

(1) Commercial general liability insurance written on an occurrence basis in the amount of \$2,000,000 combined single limit per occurrence for bodily injury, personal injury, and property damage. The insurance policy shall be amended to provide the general aggregate limit shall apply separately to the work under this Agreement or the general aggregate shall be twice the required per occurrence limit.

(2) Automobile liability insurance insuring all owned, non-owned and hired automobiles, in the amount of \$1,000,000 combined single limit per accident for bodily injury and property damage.

(3) Workers' Compensation insurance as required by the Labor Code of the State of California with the statutory limits required by the Labor Code.

(4) Employer's liability insurance of at least \$1,000,000 per occurrence.

(c) The insurance policies required above shall contain or be endorsed to contain the following specific provisions:

(1) Commercial general liability and automobile liability:

(i) District and its board members, officers, employees, agents and volunteers are added as insureds.

(ii) Vendor's insurance shall be primary insurance as respects the District, its board members, officers, employees, agents and volunteers and any insurance or self-insurance maintained by District shall be in excess of Vendor's insurance and shall not contribute to it.

(iii) Any failure to comply with the claim reporting provisions of the policies or any breach of a policy warranty shall not affect coverage under the policy provided to District, its board members, officers, employees, agents and volunteers.

(iv) The policies shall contain a waiver of transfer rights of recovery ("waiver of subrogation") against District, its board members, officers, employees, agents and volunteers, for any claims arising out of the work of Vendor.

(v) The policies may provide coverage which contains deductible or self-insured retentions. Such deductible and/or self-insured retentions shall not be applicable with respect to the coverage provided to District under such policies. Vendor shall be solely responsible for deductible and/or self-insured retention and District, at its option, may require Vendor to secure the payment of such deductible or self-insured retentions by a surety bond or an irrevocable and unconditional letter of credit. The insurance policies that contain deductibles or self-insured retentions in excess of \$25,000 per occurrence shall not be acceptable without the prior approval of District.

(vi) Prior to start of work under this Agreement, Vendor shall file with District evidence of insurance as required above from an insurer or insurers

certifying to the required coverage.

(2) Each policy required in this section shall contain a policy cancellation clause that provides the policy shall not be canceled or otherwise terminated by the insurer or the Vendor or reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the District, Attention: Office Manager.

(d) Insurance required by this Agreement shall be placed with insurers licensed by the State of California to transact insurance business of the types required herein. Each insurer shall have a current Best Insurance Guide rating of not less than A: VII unless prior approval is secured from the District as to the use of such insurer.

EQUAL OPPORTUNITY EMPLOYER

(a) CONTRACTOR will not discriminate against any employee or applicant for employment because of race, color, religion, creed, national origin, ancestry, physical handicap, medical condition, age, marital status, or sex. CONTRACTOR shall ensure applicants are employed, and employees will be treated during employment without regard to their race, color, religion, creed, national origin, ancestry, physical handicap, medical condition, age, marital status, or sex. Such actions shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training. CONTRACTOR shall post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this non-discrimination clause.

(b) In all solicitations or advertisements for employees, CONTRACTOR will state qualified applicants will receive consideration for employment without regard to race, color, religion, creed, national origin, ancestry, physical handicap, medical condition, age, marital status, or sex.

DEPARTMENT OF INDUSTRIAL RELATIONS REGISTRATION

Vendors and Contractors are required to be registered with the California Department of Industrial Relations (DIR) prior to providing a proposal. Form PWC-100 is required to be completed and filed with the DIR prior to commencing work.

COMPLIANCE WITH LAWS AND REGULATIONS

The Contractor will comply with all federal, state and local regulations, including but not limited to all applicable OSHA/MIOSHA requirements and the Americans with Disabilities Act.

IV. TERMS AND CONDITIONS

Award: District reserves the right to reject any and all proposals received as a result of this RFP. If a proposal is selected it will be the most advantageous regarding price (See: "Low Bidder" following), quality of service, the Bidder's qualifications and capabilities to provide the specified service, and other factors which the District may consider. The District does not intend to award a Bid fully on the basis of any response made to the proposal; the District reserves the right to consider proposals for modifications at any time before a Bid would be awarded, and negotiations would be undertaken with that Bidder whose proposal is deemed to best meet the District's specifications and needs.

Low Bidder: A low bidder will be determined by the price, qualifications and capabilities to provide the specified services.

V. GENERAL SPECIFICATIONS

1. SCOPE OF WORK

- a. District is seeking a Contractor for the replacement of the roof (approximately 4,700 square feet) on the chemical building at the Tapia Water Reclamation Facility located at 731 Malibu Canyon Road, Calabasas, CA 91302. The Contractor who is selected will be expected to provide the roof replacement for the price quoted in this bid.
- b. The Contractor shall provide all labor, materials, equipment and supervision with incidental services necessary to make needed repairs.
- c. The existing roof material on the chemical building is asphalt/gravel. The replacement roof will be two ply SBS membrane type roofing system.
- d. Contractor will completely tear off existing roof, insulation and all other related items to the deck. Existing roofing surface will be repaired following the National Roofing Contractors (NRCA) and manufacturer's recommendations.
- e. Contractor will remove and replace all broken skylights with new skylights.
- f. Contractor will remove and repair all existing drains and install new pitch pans.
- g. Contractor will replace all damage, split or deteriorated plumbing support wood blocks.
- h. Contractor is responsible for preventing the ponding of water and installing crickets where necessary.

-
- i. Contractor will install lead flashings on breather pipe, electrical and plumbing penetrations.
 - j. Install wall and base flashing systems.
 - k. Install sheet metal flashing.
 - l. Install insulation and cover board.
 - m. Install two ply SBS membrane roof system per NRCA and manufacturer's recommendations.
 - n. Properly repair and replace all roof overflow drains.
 - o. Contractor to provide 15 year warranty for installed roof.
 - p. Contractor to dispose of old roofing material in accordance with State and local regulations.

November 7, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Digester No. 1 Rehabilitation Project: Award of Design Contract

SUMMARY:

A request for proposals (RFP) for the design of the Digester No. 1 Rehabilitation Project was released on September 19, 2016. Staff performed a visual inspection of the interior of the digester to develop a comprehensive rehabilitation scope of work for the RFP. On October 31, 2016, four proposals were received; staff recommends the Board accept the proposal from Pacific Advanced Civil Engineering, Inc. (PACE), in the amount of \$53,694.

RECOMMENDATION(S):

Accept the proposal from Pacific Advanced Civil Engineering, Inc., and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$53,694, for design of the Digester No. 1 Rehabilitation Project.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The adopted Fiscal Year 2016-17 JPA Budget included sufficient funds for the work under CIP Job No. 10565. No additional appropriation is required. The cost of the project will be allocated 70.6% to LVWMD and 29.4% to Triunfo Sanitation District.

DISCUSSION:

Based on a visual inspection of the digester's interior and exterior, staff determined the scope of design for the rehabilitation project should include an environmental determination, removing and replacing all of the interior mechanical piping systems, instrumentation upgrades, replacing exterior valves, removing steam lances and other obsolete equipment, and rehabilitation of roof penetrations. The concrete interior surfaces are generally in good

condition and only the construction joint seals need to be replaced.

On October 31, 2016, four proposals were received from the following firms with the noted fees:

<u>Design Firm</u>	<u>Fee Proposal</u>
M6	\$ 39,078
PACE	\$ 53,694
Phoenix	\$ 82,420
MNS	\$239,231

Upon review of the proposals, staff determined that the PACE team was most qualified for the work and proposed the best approach to the project. The proposal from M6, though submitted with the lowest fee, did not list specific wastewater/digester experience required for the project and was considered non-responsive. As a result, staff recommends the Board accept the proposal from PACE, in the amount of \$53,694.

GOALS:

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

The rehabilitation of the digester will extend the service life of the facility to ensure continuous service for the next few decades.

Prepared by: John Zhao, P.E., Principal Engineer

ATTACHMENTS:

PACE Proposal for Digester No. 1 Rehabilitation Project

PROPOSAL FOR

PROFESSIONAL ENGINEERING SERVICES

DIGESTER 1

REHABILITATION PROJECT

D1RP



PREPARED FOR:



LAS VIRGENES MUNICIPAL WATER DISTRICT
4232 LAS VIRGENES ROAD, CALABASAS, CA 91302

PREPARED BY:



17520 NEWHOPE STREET, SUITE 200
FOUNTAIN VALLEY, CALIFORNIA 92708
714.481.7300 | WWW.PACEWATER.COM

#B112 | OCTOBER 31, 2016

October 31, 2016

John Zhao, PE
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302
Phone (818) 251-2230

Page 1 of 1

Re: Proposal for the Digester 1 Rehabilitation Project

B112

Dear Mr. Zhao,

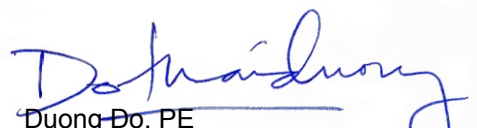
PACE understands the Las Virgenes Municipal Water District (LVMWD, District) is looking to rehabilitate Digester 1. This Digester has been in service since the early 1990s and following the District's entry and inspection of this tank, it is in need of mechanical, minor structural, and instrumentation rehabilitation modifications. PACE has supported several facility upgrade and rehabilitation and modification projects. We propose to support the District with development of a CEQA study for this project, providing bid plans and specs, and with engineering services during both the project bidding and construction process.

For this proposal, we have formed a team made up of cohesive and highly experienced members with facility modification and rehabilitation projects. PACE has significant direct experience with the District's facilities having provided the design and construction administration assistance on several recent projects. With this experience, PACE will be leading the project team and develop the design and bid documents for the District.

As the Project Manager, I will be involved with the day-to-day needs of the project and be the primary contact to the District's staff, just as I have been on the other past and ongoing projects. With such a highly experienced team, we have been able to keep our hours and therefore, cost to do the engineering at a minimum.

We hope to continue the strong partnership with the District. We have prepared the enclosed proposal following the RFP guidelines. Our team is ready to commence immediately on the project upon notification. Please contact me if you have any questions regarding our proposal cell phone (714) 514-8812 or by email at ddo@pacewater.com

Sincerely,


Duong Do, PE
Vice President – Environmental Water

Legal Name of Firm:	Pacific Advanced Civil Engineering, Inc.
Address:	17520 Newhope Street, Suite 200 Fountain Valley, CA 92708
Phone:	(714) 481-7300
Principal:	Duong Do, PE

Table of Contents

Introduction	1
Project Understanding and Approach	2
Project Understanding.....	2
Project Approach.....	2
Scope of Work	4
Project Team	6
Key Team Members.....	6
QA /QC Process	8
Project Experience	9
Certificate of Insurance	11
Fee Estimate	12



Introduction

Introduction

About PACE

PACE is a mid-sized water resources civil engineering firm formed in 1987, and headquartered in Fountain Valley, California with a regional office in Phoenix, Arizona. With extensive water and wastewater treatment design experience, PACE provides **proven, creative and cost-effective solutions** through the application of advanced engineering technology and analysis techniques.

PACE Advanced Water Engineering

17520 Newhope Street, Suite 200
Fountain Valley, California 92708
(714) 481-7300 / Fax (714) 481-7299

Project Manager: Duong Do, PE

Direct Line: (714) 481-7223, cell: (714)-514-8812
email: ddo@pacewater.com

Within the wastewater treatment arena, PACE is experienced in:

- Wastewater treatment facility planning
- Wastewater treatment process design
- Treatment facility upgrades and expansions
- Sewage collection and reclaimed water distribution systems
- Storage and pumping systems
- Treatment facility construction and operation
- Energy and process efficiency evaluations and strategy implementation
- Complex local and remote Supervisory Control And Data Acquisition (SCADA) systems
- EPA 503 bio-solids reuse permitting, sludge digestion and dewatering
- Permitting for Effluent Title 22 reuse, NPDES discharge and groundwater recharge
- Underground Storage Facilities and recharge well design

Within the past 10 years, our team has designed and provided construction and operations assistance services on more than 40 new or expanded treatment facilities. All of these facilities included advanced biological nutrient removal (BNR) activated sludge systems, blower system design, and controls and automation. Clients benefit from PACE's experience with advanced wastewater treatment facility design and our experience working with contractors in all facets of project delivery structures including design-bid-build, design-build, design-build-operate and Construction Management at Risk (CMAR). This background leads us to place major emphasis on the **compatibility, constructability, costs and long-term ease in operations** of the treatment systems. Clients also gain from the direct involvement from our principals who bring innovation, creativity, and up-front value engineering to every project.

Unique Qualifications:

- Extensive experience with water and wastewater upgrades while facilities remain in service.
- Our Sr. Project Manager and Principal for this project is both a licensed engineer and a former wastewater treatment plant operator. PACE provides "engineers with calluses on their hands" who know what it takes to design, build and operate wastewater facilities.
- In-house Instrumentation & Controls group ensures seamless integration of new and existing control systems.
- Our entire project team is based locally in southern California Orange County, which ensures quick, direct access for the District to all levels of our team.
- Approach has been proven effective on facility upgrade projects and will benefit District with the highest quality equipment at the best capital costs and will be in support of the District's long-term objectives.



Project Understanding and Approach

Project Understanding and Approach

Project Understanding

The Las Virgenes Municipal Water District (LVMWD, District) is currently seeking a qualified engineering consultant to assist LVMWD with the rehabilitation of Digester 1. This Digester is one of three that provide bio-solids digestion for the Tapia Water Reclamation Facility before the bio-solids are dewatered and processed on site for composting. Both Digester 1 and Digester 2 were constructed in the early 1990s and have been in service since that time. Following the construction of Digester 3 in 2015, the Facility was provided with sufficient redundant Digestion capacity to allow for the older Digesters (1 and 2) to be taken out service (one at a time) for maintenance proposes. The District recently took Digester 1 offline to perform cleaning and perform an inspection of this Digester. Based upon LVMWD staff observation of the interior conditions of Digester 1, we understand that the following summary of scope of rehabilitation was recommended:

- Removal and replacement of existing concrete construction joint seals.
- Removal and replacement of all new interior mechanical piping systems.
- Removal and replacement of center column and support structure.
- Modifications to level control instrumentation locations and implementation of additional instrumentation, such as an ultrasonic level sensor.
- Replacement or rehabilitation of existing exterior valves and actuators (feed, circulation, and gas systems).
- Removal of obsolete equipment (e.g., Steam Lances).
- Modifications to the existing gas withdrawal piping system.
- Rehabilitation of existing roof penetrations and viewports.

The engineering consultant will be tasked with providing services to perform a CEQA analysis and determination report, and developing bid plans and specs for the rehabilitation project. This also includes providing the District with assistance during bidding and technical services during construction of the overall rehabilitation project elements.

Project Approach

Project Investigation and Data Gathering

As the project design consultant, PACE will approach this project as a team player and provide the technical and production capacity for implementing the design solutions of the project team. Our first focus will be on coordinating CEQA determinations, and further researching the documentation provided by the District with the Project Team for determinations on the next steps and on the development of the rehabilitation plans and specifications. From the research, the Project Team will conclude if a physical entry into Digester 1 is still required. If deemed necessary, PACE will provide a formal Entry Plan to the District for review and approval, prior to coordinating the initial site visit.

The initial site visit will include working with the Project Team and District to provide site reconnaissance work. This background research (including the Entry Plan, if deemed necessary) will allow for development of the rehabilitation plans and specifications. The initial site visit will also allow for development of a construction phasing plan as well as a formal isolation plan for the cleaning of Digester 2.

Design Services

PACE will develop bid plans and specifications for the Digester 1 rehabilitation project. The bid plans and specifications will be provided to the District in a 100% Design package for review. It is assumed that the majority, if not all, items to be implemented into this design plan and spec package have already been identified by the District through the information provided via inspection and in the RFP package. This will therefore allow for streamlining of the production of the bid plans and specs, leading directly to a 100% design. Following 100% design review by the District, PACE will incorporate any remaining comments into a Final 100% Design Bid Package.

The Digester 1 Rehabilitation Design Plans and Specifications will include addressing the following major rehabilitation elements outlined in the RFP, and summarized as follows:

1. Removal and replacement of the concrete joint seals and all patchwork needed within the interior of Digester 1. Rehabilitation of roof penetrations, viewports, and gaskets for all hatch covers.
2. Removal and replacement of the center column and support structure elements.
3. Removal and replacement of all interior mechanical piping and support systems. Removal of existing steam lances and related appurtenances. Installation of isolation valves and blind flanges at steam lance penetrations. Removal and replacement of existing non-functional valves and actuators (for inlets, outlets, and recirculation system). Installation of new gas piping system isolation valves, to allow for isolation of each of the digesters, individually.
4. Instrumentation modifications to allow for relocation of existing instruments meeting non-classified environment conditions, and implementation of new ultrasonic level instrumentation.

Bid Services and Services During Construction

During the bid solicitation process PACE will work with the District to clarify design intent and layout the scope of work to be performed by the bidding contractors. PACE will also work with the District to develop any required addendums needed in response to bidding contractor questions, or plan and specification modifications.

PACE will provide the services of its staff to assist the District with the construction kick-off meeting. PACE will also be present via conference call during other required construction coordination meetings. PACE will provide review of contractor submitted shop drawings, schedules, and construction change orders as needed for the project. Following construction, PACE will develop Record Drawings for submission to the District.



Scope of Work

Scope of Work

TASK 1.0 – PROJECT MANAGEMENT AND MEETINGS

This task includes management functions for all activities of this Project. Project Manager, Duong Do, PE, will allocate the project team's resources and establish all staff responsibilities. Project management will be developed according to each project task. Invoices shall be prepared and submitted to cover the previous months work.

Task 1.2 – Kickoff and Progress Meetings

A project kickoff meeting will be held with the Project team and LVMWD to confirm 1) Project objectives, 2) the interrelationship between objectives and work tasks, and 3) the responsibility for activities and schedule to help ensure a successful Project. PACE shall prepare an agenda and the minutes from the meeting for distribution to the attendees within five (5) working days of the meeting.

Progress Meetings will be held on an as needed basis, to be scheduled in advance between LVMWD and PACE's Project Manager. Up to 3 meetings are envisioned. These meetings will provide a forum for delivery of Project deliverables as well as progress reports, which will identify efforts and accomplishments since the last meeting and establish expectations for the next meeting. PACE shall prepare an agenda for these meetings.

TASK 2.0 – SITE INVESTIGATION AND CEQA STUDY ANALYSIS

Task 2.1 – Site Investigation and Data Gathering

PACE shall review all information and data provided by the District and shall perform a site investigation to further gather all necessary additional information for the development of the rehabilitation bid plans and specifications for the Project.

Task 2.2 – CEQA Study Analysis

PACE will work with a sub-consultant to perform an initial study pursuant to CEQA Guidelines to evaluate potential impacts of the proposed project.

- a. Complete CEQA checklist, provide the necessary information to determine the significance of potential environmental impacts.
- b. Prepare necessary level of CEQA documents, assuming a Negative Declaration (ND) or Mitigation Negative Declaration (MND) will be the appropriate CEQA compliance document.
- c. As required, provide all necessary administrative services related to CEQA such as publishing the various notices, such as the Mitigation Monitoring and Reporting Program (MMRP) and Notice of Determination (NOD).

Task 2.3 – Entry Plan

Prior to initial site investigation, the Project Team shall determine if an official Entry Plan will be required for entry into Digester 1. This will include further refined review of the photos, video, and documentation provided by the District to determine if in fact a physical entry will be required. If deemed necessary, the Entry Plan will outline the procedures to be used, personal protection equipment to be used, and list all parties from the Project Team needed to perform the entry. The Entry Plan will be submitted to the District for review and approval prior to setting up a site visit.

Task 2.4 – Construction/Cleaning Sequencing Planning

PACE will work with the District staff to determine the best way to sequence construction activities for construction of the modified and upgraded equipment in/on Digester 1, and to develop an isolation plan for cleaning Digester 2. This entails development of measures for replacing the existing equipment and modifying electrical and monitoring and control equipment as needed for Digester 1, and for cleaning of Digester 2 while allowing for existing day-to-day sludge processing operations to continue with minimal impacts during construction.

TASK 3.0 – DESIGN SERVICES

Task 3.1 – 100% Design

PACE will prepare 100% plans and specifications for the project. The 100% Rehabilitation Design will include the following major elements:

- 1) District’s General Provisions
- 2) A Strategic Rehabilitation Construction Phasing and Digester 2 Cleaning Plan
- 3) Civil Design and Design Details
- 4) Mechanical Design and Details
- 5) Instrumentation Design and Details
- 6) Preliminary Set of Construction Specifications in CSI format

Following review and approval of the 100% plans and specifications, PACE will prepare a set of Final 100% Design Bid Package to be delivered to the District for reproduction into a formal public bid set. Plans and specifications will be delivered in electronic format (PDF) for rapid reproduction along with an original stamped and signed printed set. PACE shall also provide to the District an electronic copy of all AutoCAD drawing files used for the project.

PACE will also provide an Engineer’s Estimate of Probable Construction Cost based on the completed 100% design drawings.

TASK 4.0 – BID SERVICES

Task 4.1 – Bid Services

PACE shall attend a Pre-Bid conference to assist the District with describing the scope of work to be performed by bidding contractors.

PACE will provide the services of its engineering staff to supply written responses to questions from bidding contractors. Our responses will be provided to the District for incorporation in the District-issued bid addendums. We have assumed one addendum period.

TASK 5.0 – SERVICES DURING CONSTRUCTION

Task 5.1 – Services During Construction

PACE will attend construction meetings via conference calls and onsite (as necessary), over the course of construction of the project. This will initially include coordinating the sequence of construction and cleaning plan with the selected contractor during the construction kick-off meeting. Other meetings will include normal construction milestone and/or required construction coordination meetings, as necessary.

PACE will provide the services of its engineering staff during construction to review RFIs/ and Shop Drawings submitted by the selected contractor and/or District.

PACE will review and certify draw and change order requests as submitted to the District.

PACE will provide field engineering services as requested by the District to verify site conditions and answer contractor’s questions or requested modifications.

PACE will complete and provide Record Drawings to the District following completion of construction.



Project Team

Project Team

Project Team

Key Team Members



Duong Do, PE – Sr. Project Manager

Duong Do has civil and environmental engineering experience spanning back to 1996. His areas of expertise include water and wastewater treatment processes and design, water and wastewater distribution and infrastructure design, water reservoir and lakes, water resource master planning and permitting. Mr. Do has served as the Engineer-of-Record and Project Manager for numerous water and wastewater treatment facilities, and as a former WWTP operator he has dedicated himself to operator-focus designed and value engineering. His current responsibilities include managing design and engineering of water and wastewater treatment projects.



Robert Murphy, PE – Sr. Project Engineer

Robert Murphy has civil and environmental engineering experience spanning back to 2006. He has performed engineering design and support in several areas including water and wastewater treatment, water conveyance and distribution, and surveying services. Mr. Murphy is adept at providing comprehensive civil and mechanical designs that are inventive, cost effective, and practical. His experiences also include process equipment selection, construction administration, and coordinating project plans, specifications, and reports with multiple consultants to obtain an efficient buildable and operable system.



Charles Falzone, PE – Project Engineer

Charles Falzone has civil engineering experience with both public and private sector projects spanning back to 2007. His experience includes water and wastewater engineering and planning, construction administration, and regulatory compliance and permitting. At PACE, he works on projects from the conceptual stages through to final construction in both California and Arizona. He has done engineering design for potable, wastewater, and recycled water projects, prepared several performance-based equipment specifications, engineering reports and evaluations, and overseen construction of multiple wastewater systems.

Environmental Science Associates (ESA) - CEQA



ESA, a California Corporation, is a multidisciplinary environmental consulting firm offering services in research, planning, and environmental analysis of a wide range of plans and projects for both public and private clients. ESA has a growing professional staff of over 350 employees. Since its inception in 1969, ESA has successfully carried out over 8,000 environmental reports and studies for its clients and has developed an outstanding reputation for the quality of its services. This reputation has been built primarily on the preparation of legally defensible environmental documents, providing compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). ESA's success is based on a thorough understanding of federal, state, and local laws, regulations, and policies that govern environmental assessment and land use planning.



EDUCATION

*B.S./Environmental Engineering
California Polytechnic University, San
Luis Obispo, CA*

YEARS OF EXPERIENCE

20 Years
Joined PACE in 2000
With others over 4 years

REGISTRATIONS

Professional Engineer / AZ

2003 / 40050

Professional Engineer / CA

2002 / C62802

AFFILIATIONS

*American Society of Civil Engineers
(ASCE)*

*Water Environment
Federation (WEF)*

PRESENTATIONS

*"Value Engineering Improves Water
Quality and Reduces Capital and
Operational Costs"
APWA Conference, 2010*

*"Vadose Injection Wells" AWPCA,
2008*

*Low Pressure Membranes, PEARL,
PACE Internal Training Program, 2007*

Mr. Do is a technical expert in the design of water and wastewater treatment processes and has been in the industry for over 19 years. His knowledge is built on his experience in operation, construction, and design. As a project manager, Mr. Do is intimately involved in all aspect of the project, taking a project from conceptual planning to design, construction, and operational startup. He has served as the Engineer of Record and Project Manager in the design of twelve (12) water reclamation facilities throughout the Southwest in the last 10 years. As a former WWTP operator he has dedicated himself to operator-focus design and value engineering. His current responsibilities include managing design and engineering of water and wastewater treatment projects.

Firmly believing in water conservation and sustainability, Mr. Do has advocated and incorporated that mentality into every water and wastewater infrastructure design and plan. He has developed numerous management plans for the integration of water, wastewater, and high quality effluent. In addition to his experience, Mr. Do has a deep understanding of the permitting process, thus helping to successfully provide his clients a comprehensive solution to all their water and wastewater needs.

RELATED EXPERIENCE

Potable Water System Improvements – LACFD Fire Camp 16 - Sylmar, CA

PACE designed upgrades to the existing potable water system to improve reliability. The upgrades included rehabilitation of the booster pump station, addition of over two miles of 6-inch force main, rehabilitation of two welded steel water storage tanks, and electrical upgrades. A hydraulic analysis of the existing and future potable water system was performed during the design. The booster pump station upgrades included complete replacement of the booster pumps, the piping and valves, the electrical gear, and the control system.

Las Virgenes MWD Reservoir #2 Water Quality Improvements – Calabasas, CA

Mr. Do was the Project Manager for the water quality improvements to Reservoir No 2., a 45 acre-foot uncovered recycled water storage basin with earthen sides and a concrete bottom. To minimize the impacts to water quality, Mr. Do identified key contributing factors to the poor water quality, made recommendations and performed design services. Improvements included replacing the existing 16" pressure reducing valve with a new 16" pressure reducing valve, draining, cleaning, and lining the reservoir earthen slope and making provisions for installation of shade balls.

Rancho Las Virgenes Centrate Equalization Tanks and Rehabilitation of Centrate Pipeline – Calabasas, CA

Mr. Do provided detailed design of a new centrate storage/equalization tank and evaluated potential methods for the rehabilitation of the existing 8-inch DIP centrate line. In order to minimize capital cost, Mr. Do determined that mixing could be accomplished using propeller mixers instead of expensive jet nozzles as installed in the existing tanks, and reduce capital cost as well as operating cost due to lower horsepower requirements. Additionally, tank storage size was reduced to approximately 440,000 gallons thereby reducing both tank and grading costs.

Winslow WWTP Renovations – Winslow, AZ

As Sr. Project Engineer and Engineer-of-Record for this project, Mr. Do evaluated the existing facility and analyzed whether the projected growth is better served through improvement of the existing facility or the design and construction of a new treatment facility, and developed a facility phasing plan that will be used to implement any recommended upgrades to the existing plant. Through engaging interviews with operating staff, detailed site visits, and careful analysis of available operating data, Mr. Do identified options to reduce current O&M costs, reduce capital improvement costs, and improve effluent quality without triggering regulatory delays due to existing permits.



Sierra Vista EOP Water Reclamation Facility Upgrades – Sierra Vista, AZ

As Senior Project Engineer and Engineer-of-Record, Mr. Do provided complete design of the facility improvements, including overall project coordination, process evaluation and design, plan development and permitting for the City's Environmental Operations Park (EOP), a 4 MGD multi-cell advanced secondary lagoon treatment system. Through the evaluation process, Mr. Do identified improvements to modify the existing lagoons to a biological nutrient removal system utilizing the Modified Ludzack-Ettinger (MLE) activated sludge process. The modification is designed to improve the treatment process performance and reliability to comply with current effluent requirements, reduce power consumption and operational costs, and reduce capital costs.

San Jose WWTP (SJWWTP) Upgrades – Bisbee, AZ

PACE assisted with the application process to receive the WIFA loan for this renewable energy upgrade allowing Bisbee to obtain the WIFA loan for the entire project cost with \$400,000 forgiveness. An evaluation identified WWTP enhancements that increased ergonomics/safety, process/operational efficiency and water quality for future ADEQ requirements. A USDA Preliminary Engineering Report (PER) was prepared and is currently under review at the USDA. While awaiting USDA funding, PACE liaised with City operation staff to make adjustments in the operation allowing for and additional reduced energy consumption by nearly 15%.

Quartzsite WWTP Upgrades – Quartzsite, AZ

As Sr. Project Engineer, Mr. Do led the design team for the expansion of this existing 0.45 MGD SBR WWTP. The design upgrades include: increasing the capacity to 0.9 MGD, improvement of water quality, process redundancy, and reduced operating cost. PACE's evaluation and selected alternative provided the same scope but reduced capital cost of \$750,000 after value engineering fees on a \$ 4.0 million budget. This alternate will save the Town at current flow in excess of 50% of its current power consumption, equaling approximately \$35,000 annually. This savings will increase to nearly \$100,000 annually when flow reaches capacity. Because the summer flows are approximately 25% of winter flows the construction had to be initiated in the summer and completed by 11/15, thus the design had to be completed in a two-month period.

Downtown Disney Dry Weather Pump Station – Anaheim, CA

As Project Manager, Mr. Do provided the engineering design and construction administrative services for a new 800 GPM pump station. The station diverts the dry weather flow from the Disneyland Resort to the City of Anaheim sanitary sewer system. The pump station will help mitigate dry-weather runoffs from entering the City's storm drain. PACE's scope of work included field verification and data gathering, design drawings, specifications, an engineer's cost estimate, and construction administration services. Due to the project's accelerated timeline, the design and construction was completed in less than 9 months.

Tribute Water Reclamation Facility – Sierra Vista, AZ

As Senior Project Engineer and Engineer-of-Record for the Tribute Water Reclamation Facility (WRF), Mr. Do led the design team for this membrane bioreactor (MBR) treatment plant for the City of Sierra Vista, AZ. He provided complete design of the facility, including overall project coordination, process design, plan development and permitting. The Tribute WRF is designed to treat an average wastewater flow of 0.5 million gallons per day (MGD) and expandable to an ultimate capacity of 2.0 MGD. It will divert wastewater from a nearby sewer interceptor and treat the wastewater to Arizona Title 18 Class A+ Reclaimed Water Standards.

Pinetop WWTP – Pinetop/ Lakeside, AZ

As the Engineer-of-Record, Mr. Do led the design team to upgrade the existing 2.0 MGD Oxidation Ditch WWTP for the Pinetop-Lakeside Sanitation District. The WWTP upgrades included improvements to the oxidation ditch aeration and mixing system, high speed turbo blower upgrades and process modification to improve effluent quality, process equalization and energy efficiency. The project also consists of integration and control upgrades to modernize the treatment process controls and to improve process and energy efficiency. The major project challenge is to provide a design that can be implemented without taking the single ditch out of service and developing a Maintenance of Plant Operation (MOPO) plan which included the use of divers, treatment system shutdown, and control system shutdown.

City of Show Low WWTP – Show Low, AZ

Mr. Do served as the Engineer-of-Record for the conversion of the City's Aerated Lagoon WWTP to an 2.5 MGD Extended Aeration Activated Sludge (EAAS) WWTP utilizing Parkson's Biolac® Aeration System. The EAAS process allows the facility to meet stringent ammonia and nitrogen effluent limits. Design challenges that were overcome included the discovery of high groundwater, erosion of the adjacent creek, and ensuring that the project met a budget of less than \$9.5M.



Robert Murphy has civil and environmental engineering experience spanning back to 2006. He has performed engineering design and support in several areas including water and wastewater treatment, water conveyance and distribution, and surveying services. Mr. Murphy is adept at providing comprehensive civil and mechanical designs which are inventive, cost effective, and practical. His experiences also include process equipment selection, construction administration, and coordinating project plans, specifications, and reports with multiple consultants to obtain an efficient buildable and operable system.

EDUCATION

*B.S. / Civil Engineering
California State University,
Long Beach
2007*

YEARS OF EXPERIENCE

*10 Years
Joined Pacific in 2006*

REGISTRATIONS

*Professional Engineer
2014 / C83207*

AFFILIATIONS

Water Environment Federation (WEF)

*American Society of Civil Engineers
(ASCE)*

PUBLICATIONS

*Peterson, J.D., Murphy, R.R., Jin, Y.,
Wang, L., Nessler, M.B., Ikehata, K.
(2011) Health effects associated with
wastewater treatment, reuse, and
disposal. Water Environment
Research 83:10, 1853-1875.*

RELATED EXPERIENCE

Santa Paula MBR Water Recycling Facility – Santa Paula, CA

Mr. Murphy served as both the Design Engineer and as the assistant Resident Project Representative for the new Santa Paula Water Recycling Facility (WRF). The existing wastewater treatment plant had reached the end of its service life and was no longer in compliance with current regulatory requirements. The City replaced the existing facility with a new WRF and percolation basin effluent disposal system. Mr. Murphy assisted on design of the civil, grading, mechanical, and utility plans, as well as construction administration for the duration of the project. The WRF is designed as a Membrane Bio Reactor (MBR) with an initial capacity of 3.4 MGD and readily expandable to 4.2 MGD to meet wastewater flow projections for the year 2025. Also included in the new WRF design were three percolation basins with a combined surface area of about 15 acres located to the west of the WRF site. The Santa Paula WRF is the largest Koch MBR facility in the United States, and is also the first DBOF municipal WRF in California.

Potable Water System Improvements – LACFD Fire Camp 16 - Sylmar, CA

PACE designed upgrades to the existing potable water system to improve reliability. The upgrades included rehabilitation of the booster pump station, addition of over two miles of 6-inch force main, rehabilitation of two welded steel water storage tanks, and electrical upgrades. A hydraulic analysis of the existing and future potable water system was performed during the design. The booster pump station upgrades included complete replacement of the booster pumps, the piping and valves, the electrical gear, and the control system.

Dateland Water Treatment Plant – Dateland, AZ

Mr. Murphy was the design engineer for a new multi-well groundwater treatment plant in Southwestern Arizona. The project consists of two new VFD-driven wells controlled to operate at constant pressure into a pre-treatment system followed by a desalination RO system. Post treatment including disinfection and storage is also provided. The entire system is highly automated included pre-treatment backwash and regeneration, and controls automation.

City of Somerton Water Master Plan Update – Somerton, AZ

Mr. Murphy assisted in the planning project that updated the existing City of Somerton Water Master Plan due to change of growth areas and newly incorporated service areas. Groundwater supply, water treatment, storage and pumping facilities were evaluated in current, short-term future and build-out conditions. Hydraulic models were developed to evaluate the distribution systems in current, short-term future and build-out conditions. The findings and information from the master plan was used by the City to obtain the State Special Project grant funds for the Orange Grove Water System expansion project.



Charles Falzone has civil engineering experience with both public and private sector projects spanning back to 2007. His experience includes water and wastewater engineering and planning, construction administration, and regulatory compliance and permitting. At PACE, he works on projects from the conceptual stages through to final construction in both California and Arizona. He has done engineering design for potable, wastewater, and recycled water projects, prepared engineering reports and evaluations, and overseen construction of multiple wastewater systems.

RELATED EXPERIENCE

EDUCATION

*B.S. / Civil Engineering
University of the Pacific,
Stockton, CA
2009*

*M.S. / Civil Engineering
University of California, Irvine, CA
2010*

YEARS OF EXPERIENCE

*Joined PACE in 2014
with over 3 years' experience*

REGISTRATIONS

*Professional Engineer / CA
2015 / 84048*

AFFILIATIONS

*American Society of Civil Engineers
(ASCE)*

*California Water Environment
Association (CWEA)*

Potable Water System Improvements – LACFD Fire Camp 16 - Sylmar, CA

PACE designed upgrades to the existing potable water system to improve reliability. The upgrades included rehabilitation of the booster pump station, addition of over two miles of 6-inch force main, rehabilitation of two welded steel water storage tanks, and electrical upgrades. A hydraulic analysis of the existing and future potable water system was performed during the design. The booster pump station upgrades included complete replacement of the booster pumps, the piping and valves, the electrical gear, and the control system.

Pacific Grove Local Water Project – Pacific Grove, CA

PACE designed a complete Water Recycling Facility and distribution system to supply the City of Pacific Grove with recycled water. The primary purpose of the Project is to produce and distribute high quality recycled water to replace potable water used for non-potable water demands such as landscaping. The distribution system included pump stations, force mains, and gravity sewers to convey water and wastewater to/from the WRF. A hydraulic analysis was performed to determine modifications and additions to the recycled water distribution system. The WRF consists a complete membrane bio-reactor system designed to supply 125 ac-ft/yr of recycled water.

Potable Water Treatment System Design – LACFD Fire Camp 11, Fire Camp 13, Fire Camp 14, Fire Camp 19, and Henninger Flats Campground – locations throughout Los Angeles County, CA

PACE designed upgrades to aging potable water treatment systems for five remote sites owned by the Los Angeles County Fire Department to meet current Los Angeles County Department of Public Health regulations. 100-year flood elevations were determined to design revetments needed to protect the source wells from flooding along the Upper San Gabriel River and San Francisquito Canyon Creek. PACE designed a modular surface water treatment facility that could be tailored to each site to achieve consistency of equipment and functionality and reduce overall maintenance costs for the Fire Department. Wells and treatment systems were designed with SCADA communications to enable remote monitoring and automatic switching to emergency propane generators in the event of a power loss. PACE also provided the Fire Department with Operations Plans for regulatory compliance, prepared annual Consumer Confidence Reports, and assisted in obtaining permits.

Onsite Wastewater Treatment System – LACFD Fire Station 78 – Lake Hughes, CA

PACE permitted and designed upgrades to the existing wastewater system to meet the new Waste Discharge Requirements. The new onsite wastewater treatment system included a new septic tank, emergency storage/pump tank, and biofilters. The system included automated dosing control of septic tank effluent to biofilters to facilitate enhanced treatment. The final system met or exceed effluent goals to protect surrounding groundwater quality.



KEVIN A. SMITH

Senior Managing Associate

Kevin Smith has over nine years of experience in environmental services. His management, planning and scientific expertise include preparation of documents in conformance with California Environmental Quality Act/National Environmental Protection Act (CEQA/NEPA), California Coastal Act, and other applicable environmental and planning-related laws and regulations, processing of environmental permits with agencies such as the U.S. Army Corps of Engineers, California Department of Fish and Game, California Coastal Commission and the Regional Water Quality Control Board, entitlement application with Cities, Counties and other lead agencies, project management, and client and agency coordination. His ability to evaluate and communicate technical issues to regulatory agencies and the public has been a critical factor in the success of his past projects.

Kevin has participated in multiple projects including master plans, multi-use development projects, visual analysis projects, environmental restoration projects, coastal development projects, redevelopment projects, and trunk sewer replacement projects. He has worked on a variety of issues including land use impacts, biological impacts including endangered/threatened species, traffic impacts, aesthetics, noise impacts, archeological impacts and environmental mitigation.

Relevant Experience

Education

B.S., Natural Resource Management, Environmental Management, California Polytechnic State University

Years Experience: 12

Las Virgenes Municipal Water District 1235' Backbone Improvements Project MND. Los Angeles County, CA. Project Manager.

Kevin managed the preparation of a Mitigated Negative Declaration (MND) in accordance with CEQA guidelines for the 1235 Backbone Improvement Project. The project involved the installation of two pipeline alignments that range from 16-inch to 30-inch in diameter, construction of a 5 MG storage reservoir tank, expansion of the Las Virgenes Reservoir Filtration Plant from 15 mgd to 18 mgd, upgrades of the Westlake Pump Station and the improvement of the LV-1 reconnection pipeline and pressure reducing station (PRS) within the District's service area. The purpose of the project is to provide an emergency water supply in the event of a natural or other disaster in addition to the enhanced system flexibility and reliability to meet current and future water demands. Finally, the system upgrades would increase LVWMD's water supply storage capacity..

Las Virgenes Municipal Water District, Tank Site C Access Road

Constraints Report. Los Angeles County, CA. Project Manager. Kevin managed the preparation of an environmental constraints report for the Las Virgenes Municipal Water District (LVMWD) to evaluate the feasibility of constructing a new, approximately 15-foot wide paved access road and potentially a 36-inch underground conveyance pipeline from Triunfo Canyon Road to the proposed Tank Site C location within the City of Westlake Village in Los Angeles County. The report assessed four alternative alignments.

Relevant Experience (Continued)

Las Virgenes Municipal Water District, Hope Reservoir Constraints Report. Los Angeles County, CA. *Project Manager.* Kevin managed the preparation of an environmental constraints report for the Las Virgenes Municipal Water District (LVMWD) to evaluate the feasibility of constructing a new, approximately 36 acre, 1,909 acre feet water storage reservoir within the City of Calabasas in Los Angeles County. The report compiled information on environmental constraints of the area to assist LVMWD's planning and decision making process. This report identified and characterized the significant constraints of the site for biological resources, cultural resources, hazardous materials, and land use development. The report included mitigation measures to illustrate commitments that may be required to develop the property.

Las Virgenes Municipal Water District, April Road Reservoir Constraints Report. Los Angeles County, CA. *Project Manager.* Kevin managed the preparation of an environmental constraints report for the Las Virgenes Municipal Water District (LVMWD) to evaluate the feasibility of constructing a new 52.2 acre, 2,246 acre feet recycled water storage reservoir within the Santa Monica Mountains in Los Angeles County. The report compiled information on environmental constraints of the area to assist LVMWD's planning and decision making process. This report identified and characterized the significant constraints of the site for biological resources, cultural resources, hazardous materials, and land use development. The report included mitigation measures to illustrate commitments that may be required to develop the property.

Metropolitan Water District Jensen Solids Dewatering and Lagoons Project. City of Los Angeles, CA. *Project Manager.* Kevin managed the preparation of an EIR for the Metropolitan Water District of Southern California for the proposed construction of a permanent solids handling facility and lagoons within the Jensen Water Treatment Plant property. The Solids Handling Facility would include a solids dewatering building, mechanical belt presses, settling lagoons and appurtenant structures.

City of Riverside Wastewater Integrated Master Plan, Riverside, CA. *Project Manager.* Kevin managed the preparation of a Programmatic EIR for the City of Riverside, Department of Public Works. The project include the expansion of the Regional Water Quality Control Plant (RWQCP), which provides preliminary, primary, secondary, and tertiary treatment with a rated capacity of approximately 40 million gallons per day (mgd). In accordance with the forecasted growth in the City of Riverside (City of Riverside's Draft General Plan 2025), the anticipated growth in the region by year 2026 would require the RWQCP to treat up to approximately 49.4 mgd of wastewater. As a result, the proposed expansion project would upgrade the current Plant's capacity to treat approximately 52.2 mgd of wastewater by 2025.



Quality Control Process

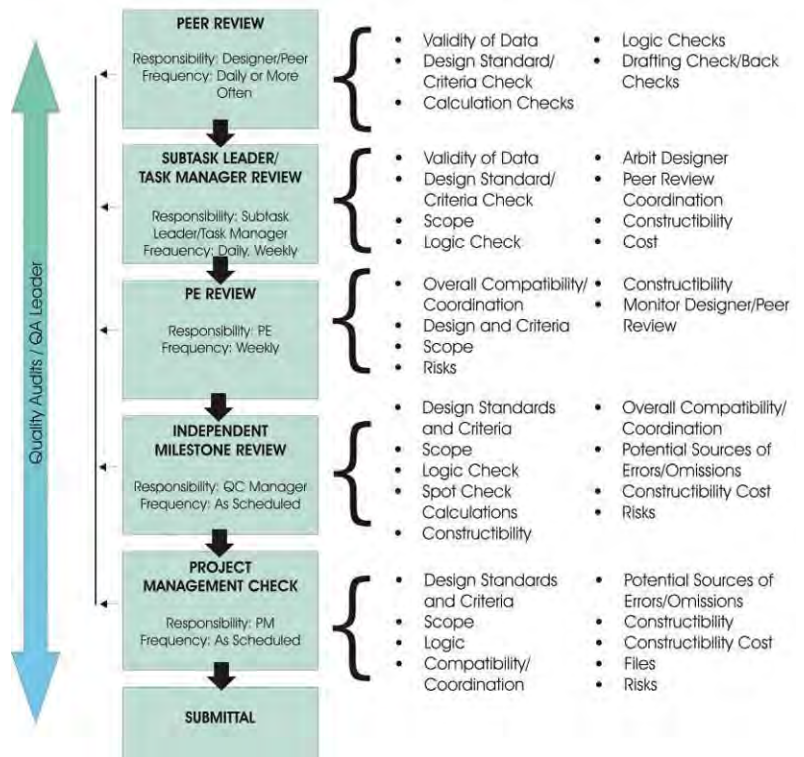
QA /QC Process

The work for this project will be conducted at PACE's headquarters in Fountain Valley, CA. PACE's Quality Assurance/ Quality Control method will be utilized to coordinate with the District and to maintain the design on schedule.

External Office Coordination: The Project Manager will coordinate all planning and design work with PACE's internal staff. Regular meetings or teleconferences will be held with applicable Project Team members to coordinate engineering study and/ or design issues. Meeting minutes will be kept and retained in project files. All telephone conversations with client, other offices, and consultants will be logged and retained in the project files. All incoming or outgoing correspondence will be through the Project Manager only.

Quality Assurance/ Quality Control

- The PACE QA/QC Philosophy:** PACE's concept for Quality Assurance/ Quality Control is to remove barriers so that each designer and engineer can design each element of the project correctly, the first time. This starts with the designation of individuals with appropriate experience and availability to manage the project, lead tasks and accomplish technical work. A second element is to gain understanding and commitment from each team member on the scope of work, their responsibilities, within the works scope as well as the budget and schedule. The third element is to provide a structured process for reviews.
- The QA/QC Process:** The Quality Assurance/ Quality Control Program as stated, places responsibility at the level of the organization closest to production of each work element.



The peer reviewer is designed to check/ back check, make conclusions on design methods, calculations, and decisions. The designer and peers are encouraged to discuss approach and identify points of agreement and disagreement. Areas of disagreement will be noted and discussed with the Project Manager.

- Levels of Review:** Project Managers and independent senior level reviews are designed to go beyond a “2+2” check format to provide guidance on alternatives to the design, logic checks of the design assumptions and conclusions and to review compatibility with other disciplines’ work which may affect the task. The independent reviewers are expected to comment on constructibility, compare construction cost to budget and suggest potential cost savings. Finally, the Project Manager checks each submittal to assure design standards and conformance with project concepts as well constructibility and construction costs.

The Principal-In-Charge of Quality Assurance/ Quality Control provides an on-going review of the process. This includes spot checks as well as structured audits to assure that the process is fully implemented and working within the entire team.



Project Experience

Project Experience

Rancho Las Virgenes Centrate Equalization Tanks and Rehabilitation of Centrate Pipeline - Calabasas, California

Contact: Brett Dingman, Las Virgenes Municipal Water District, (818) 251-2330

PACE provided detailed design of a new centrate storage/equalization tank and evaluated potential methods for the rehabilitation of the existing 8-inch DIP centrate line for the Las Virgenes Municipal Water District and Triunfo Sanitation District.

The new tank was strictly designed as a storage tank with mixing capability only as a way to minimize capital cost. Instead of expensive jet nozzles (as installed in the existing tanks), the mixing will be accomplished using propeller mixers at a much lower capital cost. Propeller mixers also reduced operating cost due to lower horsepower requirements.

Based on typical ammonia concentration of the sludge centrate, it was determined 24-hour retention will be sufficient time for treatment within the existing reactor tanks. Therefore, only one day of storage is needed to batch feed the reactor tanks. Even with a safety factor of 1.5 to 2 times the flow, the tank storage size can be reduced to approximately 440,000 gallons, further reducing both tank cost and grading cost.



The placement of the new storage tank before or after the reactor tanks was an important design consideration. Post storage allows continuous operation of the reactor tanks, even during periods when the Tapia WRF cannot accept the centrate flow, and provides a more stable biomass that can be more efficient in the nitrification/ denitrification process. Pre-storage allows for a batch process within each reactor tank, which provides flexibility of treating the batch longer if ammonia concentration has not been properly reduced. PACE evaluated the operational sequence with the operators to determine the proper placement of the new tank.

City of San Clemente, Main Pump Station Improvements - San Clemente, California

Contact: Ken Knatz, PE, City of San Clemente, (949) 361-6139



As part of rehabilitation work on the City of San Clemente's Main Pump Station, PACE provided the City with recommendations for improvements, and formal bid plans and specs. The Main Pump Station is the City's largest sewage pump station, which serves over 60% of the City's sewage flow. The project included both phasing construction while the station remained online, as well as a developing a temporary bypass plan to bypass the wet well during strategic construction elements. Improvements included structural rehabilitation, removal and replacement of aging valves and pumps, instruments, a new generator, and a whole new MCC lineup, as well as general HVAC improvements. During construction, PACE provided the City with engineering services to review shop drawings and answer RFIs. PACE

also provided the services of its Integration and Controls staff to implement a new control system for the pump station.

Las Virgenes Municipal Water District (LVMWD), Reservoir #2 Improvements

- Calabasas, California

Contact: Brett Dingman, Las Virgenes Municipal Water District, (818) 251-2330



Reservoir #2 is a 45 acre-foot uncovered basin with earthen sides and a concrete bottom. The reservoir is used to temporarily store recycled water before it is distributed via pumps to either recycled water customers or disposal in the LA River through the 005 outfall. Since the commencement of monitoring at the 005 outfall monitoring station, there has been several exceedances of the NPDES permit limits. The majority of these exceedances are for effluent turbidity, but there have been issues with TSS and total THM.

To address the water quality concerns, PACE evaluated the reservoir and pump station operation and identified a short circuit within the system that is causing a longer turnover of the reservoir and may lead to the poor water quality.

PACE provided a design to address the short-circuit and provided a design for lining the reservoir with over 92,000 sf of reinforced polypropylene geomembrane liner. The design also included the installation of temporary buffer tanks; process piping in order to maintain the recycle water operation while the reservoir was being cleaned and lined; and installation of shade balls.

During construction, PACE's construction services included contractor bid review, contractor submittal review and management, RFI processing, project schedule review and monitoring, and start-up support. During the transition between the buffer tanks and taking the reservoir offline, which is the most critical part of the construction, PACE provided staff to coordinate the transition and to provide operational assistance. The reservoir has been in operation since April 2015 and the turbidity level has remained consistently below the exceedance limits.



Certificate of Insurance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/6/2016

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 Arthur J. Gallagher & Co. Insurance Brokers of CA, Inc LIC #0726293 18201 Von Karman Ave Suite 200 Irvine CA 92612	CONTACT NAME: Arthur J. Gallagher & Co. PHONE (A/C, No, Ext): 949-349-9800 E-MAIL ADDRESS: occertificaterequest@ajg.com	FAX (A/C, No): 949-349-9962	
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED PACIAQU-02 Pacific Advanced Civil Engineering Inc 17520 Newhope St. Fountain Valley, CA 92708	INSURER A: United Specialty Insurance Company		12537
	INSURER B: Atlantic Specialty Insurance Compan		27154
	INSURER C: Berkshire Hathaway Homestate Insura		20044
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES

CERTIFICATE NUMBER: 140889216

REVISION NUMBER:

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

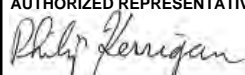
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			BTO1618317	4/30/2016	4/30/2017	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$50,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$			7100322160004	4/30/2016	4/30/2017	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			PAWC705905	3/2/2016	3/2/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

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

General Liability Per Project Aggregate: Capped at \$5,000,000 General Aggregate Limit.
RE: Lake Forest II Cogeneration Project.

CERTIFICATE HOLDER

CANCELLATION

PACE Advanced Water Engineering 17520 Newhope Street, Suite 200 Fountain Valley CA 92708	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 
--	---



Fee Estimate

Fee Estimate

Our fee breakdown by phase, task, and team member is included on the next page. Since our fee is based on T&E, only hours worked shall be billed to the District. All travel and meal expenses for our staff shall be billed at cost plus 10%. The following are our hourly rates. Attached is the fee proposal and estimated hourly schedule.

2016 HOURLY LABOR RATES

Principal	\$240
Sr. Project Manager / Sr. Consulting Engineer	\$195
Sr. Electrical Engineer / Sr. GIS Analyst	\$195
Project Manager / Consulting Engineer / Sr. Hydrologist	\$180
Sr. Project Engineer / Sr. Design Engineer	\$156
Project Engineer / Design Engineer II	\$136
Instrumentation & Controls Specialist	\$140
Sr. CAD Designer	\$120
Design Engineer	\$120
Graphic Designer	\$95
CAD Designer / GIS Analyst	\$95
Project Coordinator / Administrative Support	\$80
Assistant Designer	\$75
G.P.S. Survey Unit (w/ Operator)	\$240
Expert Witness / Legal Consultation	\$350 + Exp.

REIMBURSABLE EXPENSE RATES*

	Units	Cost
<u>Travel</u>		
Mileage (Per Mile)	Mile	\$0.54
Airfare, Auto Rental, Hotel		At Cost
Misc. Travel (Parking, tax, tolls, meals, etc.)		At Cost
Per Diem (Contract Rate)	DAY	Contract Rate
<u>Outside Reproduction</u>		
		At Cost
<u>Shipping (FedEx, UPS, Courier, etc.)</u>		
		At Cost
<u>Misc. (Review Fees, Specific Charges)</u>		
		At Cost
<u>Reproduction (In-House)</u>		
Sheet Bond - B/W Prints and Copies – All sizes (8 ½ x 11 to 12 x18)	SF	\$0.16
Sheet - Color Prints and Copies – All sizes	SF	\$1.20
Sheet - Glossy Color Print/Photo – All sizes	SF	\$2.60
Roll - Plots and Copies (Roll Paper)		
- Bond (B/W)	SF	\$0.88
- Bond (Color)	SF	\$1.56
Roll - Vellum or Mylar Plots	SF	\$2.60
Roll - Glossy Color Plot Exhibits (Roll Paper)	SF	\$3.12
Report 3-Ring Binders		
< 1.5"	EA	\$10.40
1.5" to 3"	EA	\$15.60
> 3"	EA	\$26.00
Coil or GBC Punch Binding	EA	\$1.04

*Note: All reimbursable expenses will be invoiced at the above rates + 10%

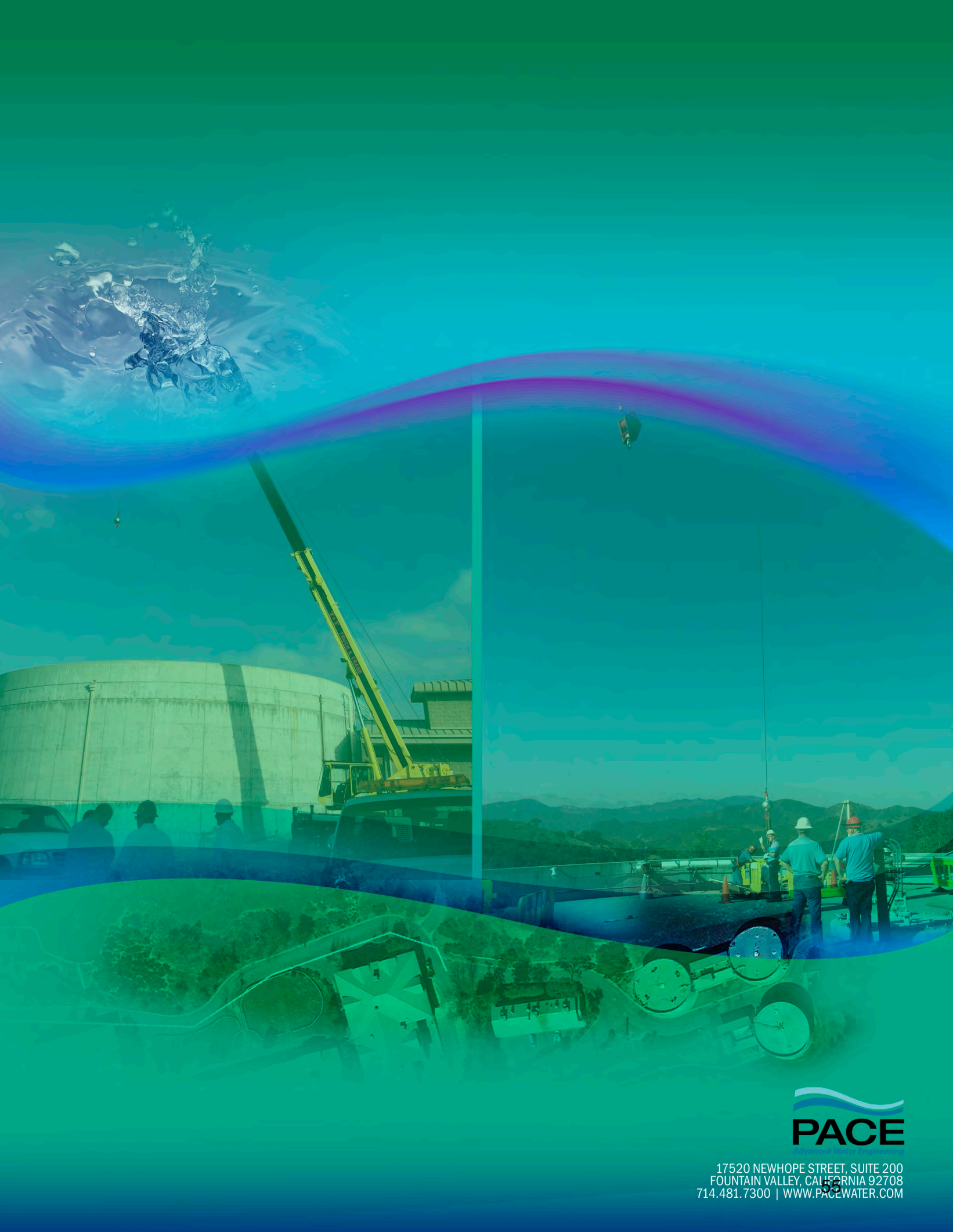


**ENGINEERING FEE PROPOSAL
PROJECT WORKSHEET**

Project: LVMWD - Digester 1 Rehabilitation		Project Data
Client: LVMWD		
PACE Job Number: B112		
Estimate Date: October 24, 2016		

Total Fee Amount **\$83,694**

Item No.	Work Item Description	PACE						Project Coordinator	Man-Power ESA	Reimburs. Expenses	Total Task Costs							
		Principal	Sr. Electrical Engr/ Sr. GIS Analyst	Sr. Project Engineer/Sr. Design Engr.	Project Engineer /Design Engr. II	Instrumentation Specialist	Design Engineer					Sr. CAD Designer /Sr. GIS Analyst						
1	Project Management and Meetings	240	195	155	136	140	120	120	0	0	80							
1.1	Project Management, Billing and Invoices	5	0	8	4	0	0	0			8		\$3,632		\$3,632			\$3,632
1.2	Kickoff and Progress Meetings	1									4		\$560		\$560			\$560
		4		8	4						4		\$3,072		\$3,072			\$3,072
2	Site Investigation and CEQA Study Analysis	5	0	4	20	4	24	2			4		\$14,044		\$14,044			\$14,044
2.1	Site Investigation and Data Gathering	4		4	8	4	8				2		\$4,352		\$4,352			\$4,352
2.2	CEQA Study Analysis				4		4		5,500		2		\$6,140		\$6,140			\$6,140
2.3	Entry Plan - TBD	1			8		8				2		\$1,264		\$1,264			\$1,264
2.4	Construction/Cleaning Sequencing Planning				8		8				2		\$2,288		\$2,288			\$2,288
3	Design Services	7	0	16	28	24	40	80			0		\$25,744		\$25,744			\$25,744
3.1	100% Design																	
3.1.1	General Provisions	1					8	8			8		\$2,160		\$2,160			\$2,160
3.1.2	Civil Design and Details	2			4		4	24			24		\$4,384		\$4,384			\$4,384
3.1.3	Mechanical Design and Details	4		8	16		16	40			40		\$10,144		\$10,144			\$10,144
3.1.4	Bid Specifications			8	8		16	16			16		\$3,168		\$3,168			\$3,168
3.1.5	Instrumentation Design and Details				8	24	8	8			4		\$5,888		\$5,888			\$5,888
4	Bid Services	1	0	4	8	0	0	0			4		\$2,272		\$2,272			\$2,272
4.1	Bid Services	1		4	8		8				4		\$2,272		\$2,272			\$2,272
5	Services During Construction	1	2	4	8	0	16	16			4		\$6,502		\$6,502			\$6,502
5.1	Services During Construction	1	2	4	8		16	16			4		\$6,502		\$6,502			\$6,502
0	Reimbursable Expenses (cost +10%)	19	2	36	68	28	80	98			20		\$52,194		\$52,194			\$52,194
	TOTALS																	



17520 NEWHOPE STREET, SUITE 200
FOUNTAIN VALLEY, CALIFORNIA 92708
714.481.7300 | WWW.PACEWATER.COM

INFORMATION ONLY

November 7, 2016 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : 18-inch Recycled Water Pipeline Joint Bonding Repair Project: Final Acceptance

The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for this matter in the JPA Budget. On October 25, 2016, the LVMWD Board, acting as the Administering Agent of the JPA, approved the execution of a Notice of Completion by the Secretary of the Board and had the same recorded; and in the absence of claims from subcontractors and others, authorized release of the retention, in the amount of \$2,880.30, within 30 days after filing the Notice of Completion for the 18-inch Recycled Water Pipeline Joint Bonding Repair Project.

SUMMARY:

On June 14, 2016, the LVMWD Board, acting as Administering Agent of the JPA, awarded a construction contract to Toro Enterprises, Inc., in the amount of \$59,440, for the 18-inch Recycled Water Pipeline Joint Bonding Repair Project. There was one change order issued during construction. Change Order No. 1 was a deductive change order, in the amount of \$1,834, and administratively approved by the General Manager.

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total cost of the construction was \$57,606, which is allocated 70.6% to LVMWD and 29.4% to Triunfo Sanitation District. Sufficient funds for the work were included in the adopted Fiscal Year 2015-16 Budget. No additional appropriation is required.

DISCUSSION:

Background:

This project was part of a multi-phase effort to rehabilitate and control corrosion along the 18-inch recycled water pipeline between the Tapia Water Reclamation Facility (Tapia) and Mulholland Highway. Construction of the first phase, which involved installation of a galvanic cathodic protection system and 40-feet of pipe replacement between Tapia and Camp David Gonzales, was completed in May 2013. Upon completion of construction, testing was performed of the newly-installed cathodic protection system and electrically discontinuous pipe spans were detected within the Camp David Gonzales driveway and along Las Virgenes Road to Mulholland Highway.

For this phase of the project, seven unbonded joints were electrically bonded along the Camp David Gonzales driveway. Upon completion of construction, testing was performed of the existing cathodic protection system, and the results indicated that the pipeline is now electrically continuous within this area. Because the pipeline is now electrically continuous up to Las Virgenes Road, the existing cathodic protection system can function properly and protect the pipeline from additional corrosion. The remaining portion of pipeline along Las Virgenes Road, from Camp David Gonzales to Mulholland Highway, is likely experiencing similar corrosion and should be further evaluated for possible installation of future cathodic protection measures and/or joint bonding.

Change Orders:

There was one change order issued during construction and administratively approved by the General Manager. Change Order No. 1, a deductive change order in the amount of \$1,834, was prepared by staff and consisted of the unused portion of Bid Item No. 5. This bid item provided for additional excavation, if needed. The contractor utilized a portion of the bid item, and the change order reflected a credit for the remaining balance. In addition, Change Order No. 1 extended the contract duration by seven calendar days. During construction, the contractor discovered that the District's as-built drawings and pipe layout drawings were not accurate for all locations. Additional time was needed to remobilize and accurately locate the unbonded joints, minimizing unnecessary excavation.

Total Construction Cost:

Following is a summary of the total construction cost:

Construction Contract:	\$59,440
Change Order No. 1 (credit)	(\$1,834)
Total Construction Cost:	\$57,606

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

ATTACHMENTS:

Notice of Completion
Change Order No. 1

RECORDING REQUESTED BY

Las Virgenes Municipal Water District

AND WHEN RECORDED MAIL TO

Name Susan Brown
Street Address Las Virgenes Municipal Water District
City & State Zip 4232 Las Virgenes Road Calabasas, CA 91302

SPACE ABOVE THIS LINE FOR RECORDER'S USE

T 420 LEGAL (9-94)

Notice of Completion

NOTICE IS HEREBY GIVEN THAT:

- 1. The undersigned is the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the undersigned is Las Virgenes Municipal Water District (NAME).
3. The full address of the undersigned is 4232 Las Virgenes Road, Calabasas CA 91302

(NUMBER AND STREET, CITY, STATE, ZIP). OWNER IN FEE

- 4. The nature of the title of the undersigned is OWNER IN FEE (E.G., owner in fee OR vendee under contract of purchase OR lessee OR OTHER APPROPRIATE DESIGNATION).
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

N/A

- 6. The names of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work of improvement herein referred to are (OR IF NO TRANSFER WAS MADE, INSERT THE WORD "none"):

N/A

- 7. A work of improvement on the property hereinafter described was completed on October 25, 2016 (DATE).
8. The name of the original contractor, if any, for the work of improvement was Toro Enterprises, Inc. (NAME OF CONTRACTOR, OR IF NO CONTRACTOR FOR THE WORK OF IMPROVEMENT AS A WHOLE, INSERT THE WORD "none"). [IF NOTICE COVERS COMPLETION OF CONTRACT FOR ONLY PART OF THE WORK OF IMPROVEMENT, ADD: The kind of work done or material furnished was

N/A

- 9. The property on which the work of improvement was completed is in the City of Los Angeles, County of Los Angeles, State of California, and is described as follows: 18-inch Recycled Water Pipeline Joint Bonding Repair Project (set forth description of jobsite sufficient for identification, using legal description if possible).

- 10. The street address of the said property is None (NUMBER AND STREET, OR, IF THERE IS NO OFFICIAL STREET ADDRESS, INSERT THE WORD "none".)

Dated: October 25, 2016

Las Virgenes Municipal Water District

(SIGNATURE) Charles P. Caspary, Secretary of the Board (TYPED NAME)

VERIFICATION

I, the undersigned, say: I am the person who signed the foregoing notice. I have read the above notice and know its contents, and the facts stated therein are true of my own knowledge.

I declare under penalty of perjury that the foregoing is true and correct.

Executed at Calabasas, California, this 25th day of October, 2016

(SIGNATURE) Charles P. Caspary, Secretary of the Board

DO NOT RECORD

Recommended Procedure in the Preparation of a Notice of Completion

A notice of completion must be filed for record *within 10 days* after completion of the work of improvement (to be computed exclusive of the day of completion), as provided in section 3093, Civil Code.

The "owner" who must file for record a notice of completion of a building or other work of improvement means the owner (or his successor in interest at the date of notice is filed) on whose behalf the work was done, though his ownership is less than the fee title. For example, if A is the owner in fee, and B, lessee under a lease, causes a building to be constructed, then B, or whoever has succeeded to his interest at the date the notice is filed, must file the notice.

If the ownership is in *two or more persons as joint tenants or tenants in common*, the notice may be signed by any one of the co-owners (in fact, the foregoing form is designed for giving of the notice by only one co-tenant), but the names and addresses of the other co-owners must be stated in paragraph 5 of the form.

In paragraphs 3 and 5, the full address called for should include street number, city, county and state.

As to paragraph 6, insert the date of completion of the work of improvement as a *whole* if applicable. However, if the notice is to be given only of completion of a particular contract, where work of improvement is made pursuant to two or more original contracts, strike the words "a work of improvement" and insert a general statement of the kind of work done or materials furnished pursuant to such contract (e.g. "The foundations for the improvements").

If the notice is to be given as a notice of completion of the work of improvement as a *whole*, insert the name of the prime contractor, if any, in paragraph 7. No contractor's name need be given if there is no general contractor, e.g., on so-called "owner-builder jobs". However, if the notice is to be given only of completion of a particular contract, where work of improvement is made pursuant to two or more original contracts, insert the name of the contractor who performed that particular contract.

Paragraph 8 should be completed only where the notice is signed by a successor in interest of the owner who caused the improvement to be constructed.

In paragraph 9, insert the *full legal* description, not merely a street address or tax description. Refer to deed or policy of title insurance. If the space provided for description is not sufficient, a rider may be attached.

In paragraph 10, show the street address, if any, assigned to the property by any competent public or governmental authority.

**NOTICE
OF COMPLETION**

CHICAGO TITLE COMPANY



WESTERN DIVISION HEADQUARTERS
245 S. LOS ROBLES AVENUE, SUITE 105
PASADENA, CALIFORNIA 91101-2820
(818) 432-7600

CHICAGO TITLE COMPANY





CONTRACT CHANGE ORDER
No. 1

4232 Las Virgenes Road
Calabasas, California 91302-1994

Project 18-inch Recycled Water Pipeline Joint Bonding Repair Project

Project No. Acct. No. 10418.1880.605

Contractor Toro Enterprises Inc.

Date 09/26/2016

CONTRACTOR CHANGE ORDER NO. 1 The Contractor is hereby authorized and directed to make the herein described changes from the Plans and Specifications or do the following work not included in the Plans and Specifications for the construction of this project.

This change requested by: LVMWD

DESCRIPTION OF CHANGE:

	Description	Amount	Days
1	Credit for portion of Bid Item 5, which provided for additional excavation if needed. The contractor utilized a portion of the bid item and the remaining balance is reflected in this credit.	\$1,834	0
2	Contract time extension due to District record drawing inaccuracies and resulting additional time to remobilize and locate additional unbonded joints on pipeline.	\$0	7 (Calendar)
	TOTAL	\$1,834	7

INCREASES
TOTAL AT AGREED PRICES OR FORCE ACCOUNT \$1,834
DECREASES

Contract Change Order No. 1 Project No. 10539 Acct. No. 10418.1880.605

Date 09/26/2016

(2) Estimate of increases and/or decreases in contract items at contract unit prices:

INCREASES

Item	Description	Quantity	Unit Price	Total
TOTAL INCREASES				<u>\$N/A</u>

DECREASES

Item	Description	Quantity	Unit Price	Total
TOTAL DECREASES				<u>\$N/A</u>

TOTAL NET _____ IN CONTRACT ITEMS AT CONTRACT UNIT PRICES \$ _____

INCREASE

TOTAL COST OF THIS CHANGE ORDER **\$1,834**

DECREASE

It is agreed 7 consecutive calendar days extension of time will be allowed by reason of this change.

Recommended by

[Signature]
Coleman Olinger, P.E.
Associate Engineer

Departmental Approval

[Signature]
David R. Lippman
Director of Facilities and Operations

ACCEPTED:

TORO ENTERPRISES, INC

By: [Signature]
BRIAN BOHNSACK, P.M.

Date: 9/26/16

APPROVED:

Las Virgenes Municipal Water District

By: [Signature]
David W. Pedersen, General Manager

Date: 10/11/16

Note: Attention is called to the sections of the Special Provisions and Standard Provisions on EXTRA, ADDITIONAL OR OMITTED WORK.

THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY OWNER

IF ACCEPTABLE TO THE CONTRACTOR, THIS CHANGE ORDER IS EFFECTIVE IMMEDIATELY