

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

**899 Kanan Road, Oak Park, California 91377**

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

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5:00 PM

September 5, 2017

PLEDGE OF ALLEGIANCE

**1 CALL TO ORDER AND ROLL CALL**

**2 APPROVAL OF AGENDA**

**3 PUBLIC COMMENTS**

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

**4 CONSENT CALENDAR**

**A Minutes: Regular Meeting of August 7, 2017 (Pg. 3)**

Approve.

**5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS**

**A Pure Water Project Las Virgenes-Triunfo: Update**

**6 ACTION ITEMS**

**A Tapia Process Air Improvements Project: Approval of Design Scope Change (Pg. 12)**

Authorize the Administering Agent/General Manager to approve a Change in Scope to the professional services agreement with Pacific Advanced Civil Engineering (PACE), in the amount of \$47,718, for the Tapia Process Air Improvements Project.

**B Policy Principles for Management of the JPA's Recycled Water System (Pg. 19)**

Adopt the draft *Policy Principles for Management of the JPA's Recycled Water System*.

**C Woodland Hills Country Club Recycled Water System Extension Project (Pg. 23)**

Opt not to sell or transfer wholesale recycled water to the Los Angeles Department of Water and Power, instead preserving it to augment future drinking water supplies through the Pure Water Project Las Virgenes-Triunfo.

**D Pure Water Project Las Virgenes-Triunfo: Next Steps for Demonstration Project (Pg. 26)**

Find that the work is exempt from the provisions of the California Environmental Quality Act, authorize the issuance of a Request for Proposals for project delivery management services and authorize the solicitation of proposals from one or more public outreach firms for the Pure Water Demonstration Project.

**7 BOARD COMMENTS**

**8 ADMINISTERING AGENT/GENERAL MANAGER REPORT**

**9 FUTURE AGENDA ITEMS**

**10 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

**11 CLOSED SESSION**

**12 ADJOURNMENT**

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

**LAS VIRGENES – TRIUNFO  
JOINT POWERS AUTHORITY  
MINUTES  
REGULAR MEETING**

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5:00 PM

August 7, 2017

**PLEDGE OF ALLEGIANCE**

The Pledge of Allegiance to the Flag was led by James Wall.

**1. CALL TO ORDER AND ROLL CALL**

The meeting was called to order at **5:00 p.m.** by Chair Wall 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: Directors Caspary, Lewitt, Pan, Paule, Peterson, Polan, Renger, Tjulander, and Wall.

Absent: Director Orkney

**2. CHAIR/VICE CHAIR****A Welcome TSD Director Ray Tjulander to JPA Board of Directors**

Chair Wall introduced and welcomed TSD Director Ray Tjulander to the JPA Board of Directors. Director Tjulander stated that it was an honor to serve on the Board.

**B Recognition of Director Steven D. Iceland's Service to the JPA**

Chair Wall presented a proclamation to former Director Steven D. Iceland in recognition of his service to the JPA.

Former Director Iceland thanked the Board and acknowledged them for working cohesively and focusing on the future. He expressed his appreciation for having professional senior staff, and he recognized Public Affairs Associate Deborah Peters and Clerk of the Board Josie Guzman for their efforts.

Director Paule acknowledged former Director Iceland on his efforts, and he wished him and his wife well on their next adventure.

Director Caspary acknowledged former Director Iceland for his diligence and stated that he would be missed.

Former Director Iceland thanked the TSD Board for selecting Director Tjulander to serve on the TSD Board of Directors.

**3. APPROVAL OF AGENDA**

Director Peterson moved to approve the agenda. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Lewitt, Pan, Paule, Peterson, Polan, Renger, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: Orkney

**4. PUBLIC COMMENTS**

None.

**5. CONSENT CALENDAR**

**A Minutes: Special Meeting of July 10, 2017 and Special Meeting of July 18, 2017**

Director Caspary moved to approve the Consent Calendar. Motion seconded by Director Renger.

Josie Guzman, Clerk of the Board, noted that Director Polan had requested an amendment to the Minutes of the Special Meeting of July 10, 2017.

Director Polan requested that his comments on Page 3, paragraph 5, reflect that he had asked that the structure have some timeless elements.

Director Caspary amended his motion to include the corrections to the Minutes of the Special Meeting of July 10, 2017. Amended motion seconded by Director Renger. Motion carried by the following roll call vote:

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

NOES: None

ABSTAIN: Tjulander

ABSENT: Orkney

**6. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS**

**A Legislative Update: Syrus Devers, Best Best & Kieger LLP**

Syrus Devers, representing Best Best & Krieger LLP, provided an update on proposed State legislation to establish a long-term water conservation policy. He noted that Las Virgenes Municipal Water District had submitted a letter to the Senate Natural Resources and Water Committee, addressing the proposed implementation of the framework for *Making Water Conservation a California Way of Life*. He stated that the Committee proposed a possible compromise; however, the proposed compromise legislation included new issues that were not previously discussed. He expressed concern that there was little opportunity to lobby legislators because they were currently out on recess. He also expressed concern that the proposed legislation did not fully recognize the value of using recycled water for potable reuse, which could affect how the water savings would be scored in the future for the Pure Water Project Las Virgenes-Triunfo.

Mr. Devers also provided an update on SB 5 grant funding and stated that although SB 5 deals with park bond funds, funding could be earmarked for recycled water and stormwater capture categories.

Mr. Devers also spoke regarding Proposition 13, which was adopted in 2000 and included funding for recycled water. He noted that not all of the Proposition 13 funding from 2000 had been spent, and it was still possible to access the funds. He stated that he was currently arranging meetings to discuss amending the language in the statute to allow the JPA to access the original funds.

Mr. Devers also provided an update regarding SB 623 (Monning), which would fund safe drinking water solutions for disadvantaged communities. He noted that the bill would include a fee on fertilizers, and he stated that the JPA would need to be cautious not to label its compost as fertilizer or soil amendment. He also noted that the bill might include a public goods charge as a source of funding, which the water community strongly opposes. Director Caspary inquired whether SB 623 would be subject to Proposition 218 requirements. Mr. Devers responded that the bill would require a two-thirds vote by the Legislature and would not be subject to Proposition 218 requirements.

Director Peterson inquired regarding about unspent Safe Drinking Water State Revolving funds previously held by the California Department of Public Health that were moved to the State Water Resources Control Board, Division of Drinking Water. Mr. Devers responded that he would follow-up and report back.

Mr. Devers provided an update regarding Proposition 1 funding through the Integrated Regional Water Management (IRWM) Grant Program, and noted that IRWM Program could possibly begin to solicit applications for projects in early 2018.

**B Pure Water Project Las Virgenes-Triunfo: Update**

Administering Agent/General Manager David Pedersen noted that there were items on the agenda related to the Pure Water Project Las Virgenes-Triunfo, and there was no need for an additional update.

**7. ACTION ITEMS**

**A Digester No. 1 Rehabilitation Project: Construction Award**

**Appropriate an additional \$709,788; award a construction contract to Pacific Hydrotech Corporation, in the amount of \$1,272,240; and reject all remaining bids upon receipt of duly executed contract documents for the Digester No. 1 Rehabilitation Project.**

Administering Agent/General Manager David Pedersen presented the report. He responded to a question regarding the request for an additional appropriation and explained that the project budget had been prepared prior to knowing the full extent of the work. He also responded to a question regarding the use of the methane gas produced and explained that the methane gas is used for the co-generation facility at the site under the power purchase agreement and for powering the boiler for heating the biosolids.

Director Peterson moved to approve Item 7A. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Lewitt, Pan, Paule, Peterson, Polan, Renger, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: Orkney

**B Pure Water Project Las Virgenes-Triunfo: Adoption of Negative Declaration and Execution of Notice of Authority Acceptance for 30800 Agoura Road (APN 2061-001-025)**

**Adopt the Negative Declaration for the purchase and continued maintenance of 30800 Agoura Road in its current condition; approve policy Principles for Future Use of 30800 Agoura Road; and authorize the Administering Agent/General Manager to execute the Notice of Authority Acceptance for 30800 Agoura Road (APN 2061-001-025)**

Howard Friedman, Westlake Village resident, expressed concern that the signage posted at 30800 Agoura Road did not mention the Pure Water Project Las Virgenes-Triunfo. He also expressed concern with the potential for odors and traffic impacts. He asked the Board to use more transparent language in identifying the proposed use of the property.

Administering Agent/General Manager David Pedersen presented the report and explained that a notice was posted at the property regarding the adoption of the Negative Declaration for the purchase and continued maintenance of the property in its current condition.

David Lippman, Director of Facilities and Operations, continued by presenting the report and reviewing the proposed policy principles for the future use of 30800 Agoura Road.

Director Polan suggested adding a policy principle to minimize odor impacts. Administering Agent/General Manager David Pedersen responded that minimizing odor impacts could be added under Policy Principle No. 9.

Administering Agent/General Manager David Pedersen responded to a question regarding whether the City of Westlake Village would have an opportunity to address environmental impacts by stating that the City and other interested parties would have the opportunity to address concerns during the environmental review process

David Lippman, Director of Facilities and Operations, continued presenting the report. He stated that although the property is well suited for an advanced water treatment plant, a siting study was in progress to consider other potential sites. He noted that the property at 30800 Agoura Road was one of nine potential sites identified in the Basis of Design Report for a future advanced water treatment plant.

Mr. Friedman inquired whether the City of Westlake Village was contacted regarding the proposed project. Administering Agent/General Manager David Pedersen responded that he provided a presentation to the Westlake Village City Council regarding the project concept.

Mr. Friedman also inquired whether staff had investigated the other potential sites and whether a decision needed to be made within one week. Director Caspary responded that the other potential sites had been investigated or considered for decades and this site appears to be the front-runner. He stated that the Board would not discontinue the investigation process. He noted that the JPA had an opportunity to lock in on what appears to be an attractive deal for a potential site. Chair Wall added that this was the only site that was currently on the market and for the JPA to secure its rights to the site it must proceed with the recommended action; however, the purchase of the property would not lock the JPA into developing the site for an advanced water treatment facility.

Administering Agent/General Manager David Pedersen provided a brief summary of the stakeholders' meetings held beginning in 2015 to discuss alternatives to discharging excess recycled water; potable reuse and treating the excess recycled water to a higher level to meet regulatory requirements and protect customers from

future droughts; development of the Pure Water Project concept; preparation of a preliminary siting study for an advanced water treatment plant; and the development of a Basis of Design Report that identified nine potential sites. He noted that the siting study was currently one-third complete. He also noted that the JPA saw an opportunity to purchase this property when it became available on the market and began the process to evaluate the site, and if the JPA were to wait on pursuing the site, the property might not be available in the future or at the same terms.

David Lippman, Director of Facilities and Operations, responded to a question regarding whether the City of Agoura Hills is supportive of the Pure Water Project Las Virgenes-Triunfo by stating that staff senses that the City is not opposed the project and would be cooperative if this property is selected for building an advanced water treatment plant.

John Mathews, Legal Counsel for TSD, noted that the Draft Initial Study/Negative Declaration described the acquisition and maintenance of the property and does not identify building a facility on the property.

David Lippman, Director of Facilities and Operations, responded to a question regarding completion of the siting study for the nine potential sites by stating that the final draft siting study would be completed prior to the expiration of the option to purchase in March 2018.

Director Peterson moved to approve Item 7B. Motion seconded by Director Lewitt. Motion carried by the following vote:

AYES: Caspary, Lewitt, Pan, Paule, Peterson, Polan, Renger, Tjulander, Wall

NOES: None

ABSTAIN: None

ABSENT: Orkney

### **C Tapia Water Reclamation Facility Chloride Study: Request for Proposals**

#### **Approve the issuance of a Request for Proposals for the Tapia Water Reclamation Facility Chloride Study.**

Administering Agent/General Manager David Pedersen presented the report. He responded to concerns regarding the Los Angeles Regional Water Quality Control Board's requirement for the JPA to complete a chloride study as part of the Time Schedule Order.

Director Caspary moved to approve Item 7C. Motion seconded by Director Lewitt. Motion carried by the following vote:



AYES: Caspary, Lewitt, Pan, Paule, Peterson, Polan, Renger, Tjulander, Wall  
NOES: None  
ABSTAIN: None  
ABSENT: Orkney

**D Characterization, Evaluation and Control of Invasive Species in the Malibu Creek Watershed: Research Report**

**Receive and file JPA Report No. 2755.00: *The Characterization, Evaluation and Control of Invasive Species in the Malibu Creek Watershed.***

Administering Agent/General Manager David Pedersen provided introductory remarks.

Dave Roberts, Resource Conservation Manager, provided a PowerPoint presentation on the background of the study, TMDL objectives for nutrients and biological integrity scores, the application of research findings and dissemination of the research information.

Director Lewitt departed from the meeting during the presentation.

Dr. Gary Bucciarelli, Stunt Ranch Director of Research, UCLA La Kretz Center for California Conservation Science, presented the research results.

Debbie Sharpton, Executive Director for Mountains Restoration Trust, presented information on its Crayfish Removal Program.

Director Peterson moved to approve Item 7D. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Pan, Paule, Peterson, Polan, Renger, Tjulander, Wall  
NOES: None  
ABSTAIN: None  
ABSENT: Lewitt, Orkney

**8. BOARD COMMENTS**

Director Paule inquired regarding the status of Water Infrastructure Finance and Innovation Act (WIFIA) funding application. Administering Agent/General Manager David Pedersen responded that the JPA submitted a letter of interest for funding; however, the JPA was not selected as a recipient of WIFIA funds. He noted that funds were awarded to agencies that already have a project ready to move forward.

**9. ADMINISTERING AGENT/GENERAL MANAGER REPORT**

Administering Agent/General Manager David Pedersen reported that the Quarterly Watershed and Wastewater Facilities Tour was held on August 5, 2017. He noted that 35 guests participated in the tour, and Director Renger served as the host. He reminded the Board of the California Association of Sanitation Agencies (CASA) Annual Conference to be held August 22 through 24, 2017. He also reported that flow augmentation to Malibu Creek began in June and was currently running at approximately 820 gallons per minute (gpm).

**10. FUTURE AGENDA ITEMS**

None.

**11. INFORMATION ITEMS**

**A Surface Water Augmentation Regulations: Public Review**

**B Planned Potable Reuse Projects in California**

**12. PUBLIC COMMENTS**

None.

**13. CLOSED SESSION**

None.

**14. ADJOURNMENT**

Seeing no further business to come before the Board, the meeting was duly adjourned at **7:41 p.m.**

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James Wall, Chair

ATTEST:

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Glen Peterson, Vice Chair

September 5, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

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**Subject : Tapia Process Air Improvements Project: Approval of Design Scope Change**

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**SUMMARY:**

On October 5, 2016, the JPA Board accepted a proposal from Pacific Advanced Civil Engineering, Inc. (PACE), and authorized the Administrating Agent/General Manager to execute a professional services agreement, in the amount of \$215,216, for the environmental review and design of the Tapia Process Air Improvements Project. The scope of work consists of replacing the existing blowers and aeration basin air diffusers, which have reached the end of their useful life. Process air is used at the Tapia Water Reclamation Facility to support the treatment processes, which requires air for mixing, oxygen transfer for biological treatment and filter backwashing.

During rain events that occurred in early spring, staff observed air bubbles coming from the pavement over the buried portion of the 36- and 42-inch steel process air pipeline running from the Process Air Building and along the Primary Sedimentation Tanks. The bubbles indicate that the pipeline has substantial leaks, the extent and cause of which are unknown. The affected pipeline is approximately 250 linear feet and supplies process air from three existing 900-horsepower Roots blowers to various treatment processes throughout the facility. The pipeline is buried in a congested area and crosses paved access roads in two locations.

The leaks adversely impact both operations and the energy efficiency of the system, increasing utility costs. There is also evidence that the leaks are allowing sand and other foreign materials to enter the pipeline, which could result in damages to the new fine bubble air diffusers that are to be installed. Staff recommends a change in scope with PACE to evaluate the extent of the damage to the process air pipeline and design the most appropriate solution for its repair or replacement.

**RECOMMENDATION(S):**

Authorize the Administering Agent/General Manager to approve a Change in Scope to the professional services agreement with Pacific Advanced Civil Engineering (PACE), in the amount of \$47,718, for the Tapia Process Air Improvements Project.

**FISCAL IMPACT:**

Yes

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

No additional appropriation is required for this action. The adopted Fiscal Year 2017-18 JPA Budget for CIP Job No. 10626 provides sufficient funding for the design work. However, an additional appropriation may be required for construction of the work. Staff will request an additional appropriation, if required, when recommending award of a construction contract for the project.

**DISCUSSION:**

Repairing or replacing the leaking buried process air pipeline will result in additional energy savings, prevent potential damage to the fine bubble diffusers, reduce maintenance costs and increase the overall efficiency of the process air system. PACE completed the design work for the other portions of the project and has detailed knowledge of the site conditions. Utilizing PACE for the additional design work will reduce costs and result in a more efficient design of the process air system and its related components.

Staff recommends a design scope change to PACE's contract for the following tasks

- Identification of the extent of damage to the buried process air pipeline.
- Identification of a solution to repair or replace the damaged pipeline.
- Design of the repair or replacement of the pipeline, including sizing, connection details, isolation valves and support/anchoring details.

During construction, a temporary highline will installed to bypass the buried pipeline and support continuous operation of the Tapia Water Reclamation Facility.

**GOALS:**

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

Prepared by: Jared Q. Adams, P.E., Associate Engineer

**ATTACHMENTS:**

Buried Process Air Pipeline - Site Map  
Damaged Process Air Pipeline  
Accumulated Sediment in Process Air Pipeline  
PACE - Scope Change Proposal

















July 14, 2017

Mr. John Zhao  
**Las Virgenes Municipal Water District**  
**Triunfo Sanitation District Joint Powers Authority**  
4232 Las Virgenes Road  
Calabasas, CA 91302  
Phone (818) 251-2100

Page 1 of 1

**Re: Change Order No.1 for the Tapia WRF Process Air Improvements – Existing Process Air Pipe Sizing and Rerouting # A694**

Dear Mr. Zhao,

The District has identified significant air leaks in the existing process air piping, specifically the buried portions of the pipe. The District recognized that the leakage will adversely impact both the operation and the energy efficiency of the proposed Tapia WRF Process Air System. There is evidence that the leaks in the line are introducing grit and other foreign material into the air line that can damage the proposed new fine bubble air diffusers. In addition, the leaks waste process air, which increases the energy demand of the proposed new blowers, and thus reducing the efficiency of the entire process air system.

As a result, the District would like to isolate the buried portions of the process air line and bypass it by installing new overhead process air piping. Design of the new air piping is not part of PACE's current Scope of Work and will require a change order to the current scope. Our scope for this change order will include the following:

- Identify the location of the buried portions of the air process line
- Identify new piping alignment to reroute the new process air line
- Size new air piping and specify piping materials and coatings
- Provide connection details and isolation valving
- Provide piping supports and anchoring
- Provide design for overhead piping support and footing, including seismic calculations and design
- Provide specifications for the above components
- Additional project management and coordination

Attached is the fee estimate for this Change Order. Please contact me if you have any questions regarding the Change Order at (714) 514-8812 or by email at [ddo@pacewater.com](mailto:ddo@pacewater.com)

Sincerely,

A handwritten signature in blue ink, appearing to read "D. Do", is written over a horizontal line.

Duong Do, PE  
Vice President – Environmental Water



**ENGINEERING FEE ESTIMATE  
PROJECT WORKSHEET**

Project Data	
Project Name:	Tapia Air Process Improvements
Client:	LVMWD & TSD Joint Powers Authority
PACE Job Number:	B058
Estimate Date:	July 14, 2017

Item No.	Work Item Description	PACE										Man-Power Subtotal	Sub-Consultant	Total Task Costs	
		Principal	Sr. Project Manager/Sr. Consulting Engr.	Project Engineer /Design Engr. II	Instru- mentation Specialist	Design Engineer	Sr. CAD Designer /Sr. GIS Analyst	CAD Designer /GIS Analyst	Graphic Designer	Proj. Coord/Admin Support					
1	Change Order 1	235	177	136	125	115	117	91	92	70					
1.1	Mechanical Blower Piping Design	16	0	44	0	40	8	48	0	1				\$28,000	\$47,718
1.2	Structural Design	8		40		40	8	48		1				\$28,000	
	<b>TOTALS</b>	16	0	44	0	40	8	48	0	1			\$19,718	\$28,000	\$47,718

September 5, 2017 JPA Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

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**Subject : Policy Principles for Management of the JPA's Recycled Water System**

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**SUMMARY:**

The Pure Water Project Las Virgenes-Triunfo will enable the JPA to purify excess recycled water produced by the Tapia Water Reclamation Facility to augment the drinking water supplies of its member agencies. For many years, the disposal of excess recycled water has posed a major challenge to the JPA due to increasingly stringent regulatory requirements for discharges to Malibu Creek. However, with implementation of the Pure Water Project Las Virgenes-Triunfo, the JPA will nearly eliminate the need to dispose of its excess recycled water and can produce a new source of local, drought-resilient drinking water supplies for its member agencies. As a result, there is merit to consider the JPA's overall strategy to manage its recycled water system.

On February 23, 2017, the JPA Board discussed institutional issues associated with the Pure Water Project Las Virgenes-Triunfo. Among the items discussed was the JPA's approach to managing its recycled water system and, specifically, its policy with respect to extending the system to serve customers outside the combined service area of its member agencies. Based on the feedback received from the Board and considering new opportunities for use of excess recycled water, staff prepared draft policy principles for management of the JPA's recycled water system.

Staff recommends that the Board consider the draft policy principles, provide any additional feedback and adopt a final version.

**RECOMMENDATION(S):**

Adopt the draft *Policy Principles for Management of the JPA's Recycled Water System*.

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

No

## **FINANCIAL IMPACT:**

There is no financial impact associated with this action.

## **DISCUSSION:**

Attached and summarized with additional explanation below are a summary of the draft *Policy Principles for Management of the JPA's Recycled Water System*.

- **The JPA will strive to beneficially reuse all of its recycled water within the combined service area of its member agencies.**

This principle is similar to one for "maximizing beneficial reuse" that was previously adopted by the JPA Board as part of Guiding Principles for the Recycled Water Seasonal Storage effort. It recognizes the value of recycled water.

- **The JPA will not enter into long-term agreements for the sale or transfer of recycled water outside the combined service area of its member agencies.**

The Pure Water Project Las Virgenes-Triunfo represents the best and highest use of excess recycled water for the JPA. Entering into long-term agreements to sell or transfer recycled water outside the JPA's service area reduces the available recycled water that can be treated to augment drinking water supplies of the JPA's member agencies.

- **The JPA will consider recycled water a valuable resource to be conserved, similar to potable water.**

Recycled water is a valuable resource and should be conserved in a similar manner to potable water. Conservation of recycled water also increases the available water that can be treated to augment drinking water supplies.

- **The JPA will continue to supply recycled water to its member agencies such that they can maintain the current level-of-service to their existing customers.**

The JPA and its member agencies have made significant investments in the existing recycled water system. Equally important, the recycled water customers served by the JPA's member agencies have also made significant investments in their on-site recycled water systems to conserve potable water and realize a long-term return on investment through the lower cost of recycled water. Maintaining the current level of service to existing recycled water customers would recognize these investments.

- **The JPA and member agencies will not pursue extension of the recycled water system for the sole purpose of increasing demand for recycled water; however, extensions may be considered to improve system redundancy and/or reliability.**

Prior to the Pure Water Project Las Virgenes-Triunfo, the JPA pursued cost-effective extensions of the recycled water system to increase demand and reduce the amount of excess recycled water that required disposal. With the implementation of the Pure Water Project Las Virgenes-Triunfo, the intrinsic value of recycled water can be fully realized, and there is no need to increase demand through system extensions as an alternative to disposal options. However, strategic investments to enhance redundancy and improve the reliability of the recycled water system should still be considered as a best practice.

- **The JPA will strive to maximize the water available to the Pure Water Project Las Virgenes-Triunfo by considering additional sources, including not limited to, dry-weather urban runoff, groundwater and wastewater.**

The Pure Water Project Las Virgenes-Triunfo will augment drinking water supplies, offsetting imported water purchases. Maximizing the volume of source water available to the advanced water treatment plant will result in decreased imported water purchases. As such, the JPA should consider developing additional sources of water that can be supplied to the advanced water treatment plant, either directly or through the Tapia Water Reclamation Facility.

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

**ATTACHMENTS:**

Draft Policy Principles for Management of the JPA's Recycled Water System

## DRAFT

### Policy Principles for Management of the JPA's Recycled Water System

September 5, 2015

The Pure Water Project Las Virgenes-Triunfo will enable the JPA to purify excess recycled water produced by the Tapia Water Reclamation Facility to augment the drinking water supplies of its member agencies, Las Virgenes Municipal Water District and Triunfo Sanitation District. For many years, the disposal of excess recycled water has posed a major challenge to the JPA due to increasingly stringent regulatory requirements for discharges to Malibu Creek. With implementation of the Pure Water Project Las Virgenes-Triunfo, the JPA will nearly eliminate the need to dispose of its excess recycled water and produce a new source of local, drought-resilient drinking water supplies for its member agencies.

Given the JPA's plans to develop a valuable asset from its excess recycled water, the following new policy principles are warranted for management of the JPA's recycled water system:

- The JPA will strive to beneficially reuse all of its recycled water within the combined service area of its member agencies.
- The JPA will not enter into long-term agreements for the sale or transfer of recycled water outside the combined service area of its member agencies.
- The JPA will consider recycled water a valuable resource to be conserved, similar to potable water.
- The JPA will continue to supply recycled water to its member agencies such that they can maintain the current level-of-service to their existing customers.
- The JPA and its member agencies will not pursue extensions of the recycled water system for the sole purpose of increasing demand; however, extensions may be considered to improve system redundancy and/or reliability.
- The JPA will strive to maximize available water for the Pure Water Project Las Virgenes-Triunfo by considering additional sources, including but not limited to, dry-weather urban runoff, groundwater and wastewater.

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September 5, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

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**Subject : Woodland Hills Country Club Recycled Water System Extension Project**

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**SUMMARY:**

On August 4, 2014, the JPA executed a cooperative agreement with the Los Angeles Department of Water and Power (LADWP) for the preliminary design and environmental review of the Woodland Hills Country Club Recycled Water System Extension Project. LADWP agreed to pay all costs associated with the project. The JPA Board approved the preliminary design report and certified the Mitigated Negative Declaration for the project on May 11, 2016.

Since that time, the JPA has made significant progress on its Pure Water Project Las Virgenes-Triunfo, which affects the JPA's interest in selling recycled water outside of its service area. Recognizing this development and due to high cost of the lengthy extension to the Woodland Hills Country Club, LADWP commissioned a study for a substantially smaller project that would serve the Motion Picture and Television Fund Country House and Hospital (MPH) in the City of Los Angeles. LADWP is seeking feedback on the JPA's level of interest in supplying wholesale recycled water for the smaller project.

Staff recommends that the JPA opt not to supply wholesale recycled water for the project given progress on the Pure Water Project Las Virgenes-Triunfo. The action would be consistent with the *Policy Principles for Management of the JPA's Recycled Water System*, if adopted.

**RECOMMENDATION(S):**

Opt not to sell or transfer wholesale recycled water to the Los Angeles Department of Water and Power, instead preserving it to augment future drinking water supplies through the Pure Water Project Las Virgenes-Triunfo.

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

No

## **FINANCIAL IMPACT:**

There is no immediate financial impact associated with this action. Over the long-term, the value of the additional water supplies available to the JPA's customers through the Pure Water Project Las Virgenes-Triunfo is expected to far outweigh any potential revenue that would have been received through the sale of wholesale recycled water to LADWP.

## **DISCUSSION:**

### Background:

On August 4, 2014, the JPA executed a cooperative agreement with the Los Angeles Department of Water and Power (LADWP) for the preliminary design and environmental review of the Woodland Hills Country Club (WHCC) Recycled Water System Extension Project[1]. The WHCC is located on Dumetz Street in Woodland Hills. It is a privately-owned, 72-acre property including an 18-hole golf course and clubhouse with an annual irrigation demand of 230 acre-feet. To serve WHCC, a 4.5-mile, 20-inch pipeline extension would be necessary. The Board approved a preliminary design report and certified a Mitigated Negative Declaration for the project on May 11, 2016.

### Recycled Water Seasonal Storage Effort:

Prior to approving the preliminary design report and certifying the environmental document, the Board authorized completion of the Basis of Design Report for the Recycled Water Seasonal Storage effort, focusing on Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, and Scenario No. 5, re-purposing LADWP's Encino Reservoir for recycled water storage. Encino Reservoir is located about five miles east of the WHCC. A 15-mile, 24-inch pipeline that shared a similar alignment to the WHCC extension would be required for this alternative.

### Pure Water Project Las Virgenes-Triunfo:

On August 1, 2016, the Board selected Scenario No. 4 as the JPA's preferred alternative, and subsequently renamed it the Pure Water Project Las Virgenes-Triunfo. One of the reasons for the selection was that the timing for Scenario No. 5 was uncertain and hinged on addressing three LADWP concerns: (1) the effect of recycled water on the reservoir and the ability of LADWP to use the stored water on an emergency basis, (2) the ability to manage runoff of storm water tributary to the reservoir, and (3) completion of a seismic study for Encino Dam. LADWP representatives indicated that the seismic study would not be completed for several years because other higher priority dams needed attention first.

### Discussion of Institutional Issues:

On February 23, 2017, the Board discussed institutional issues associated with the Pure Water Project Las Virgenes-Triunfo, including a potential future policy related to extensions of the recycled water system. Although no action was taken at that time, the discussion included the concept of not allowing extensions outside of the JPA's service area.

### Service to Motion Picture and Television Fund Country House and Hospital:



Recognizing the JPA's potential future policy and due to high cost of the lengthy extension to the Woodland Hills Country Club, LADWP commissioned a study to consider a substantially smaller project to serve the Motion Picture and Television Fund Country House and Hospital (MPH). The facility is located in the City of Los Angeles adjacent to the Calabasas boundary. The annual demand for service to the MPH is estimated to be 121 acre-feet, compared to 300 acre-feet for the WHCC. Also, only a 350-foot extension of the recycled water system would be required to serve the MPH. LADWP is seeking feedback on the JPA's level of interest in supplying wholesale recycled water to serve the MPH.

Conclusion:

Given the progress on the Pure Water Project Las Virgenes-Triunfo, staff believes that the JPA's customers are best served by supplying all excess recycled water to the planned advanced water treatment plant that will augment the drinking water supplies of the JPA's member agencies. Selling or transferring recycled water outside the combined service area of the JPA's member agencies will reduce the amount of water available to the Pure Water Project Las Virgenes-Triunfo. As a result, staff recommends opting not to supply wholesale recycled water to LADWP for the MPH or WHCC.

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[1] LADWP fully funded the preliminary design and environmental review.

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

September 5, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

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**Subject : Pure Water Project Las Virgenes-Triunfo: Next Steps for Demonstration Project**

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**SUMMARY:**

On July 10, 2017, the JPA Board provided input and feedback on the Preliminary Design Report for the Pure Water Demonstration Project, and staff agreed to come back to the Board with proposed next steps for the project. This report summarizes the next steps and recommends actions to initiate the process.

Development of the demonstration project consists of four main elements: (1) architectural services for the building renovations; (2) vendor and engineering services for the treatment equipment; (3) design and development of public outreach features; and (4) transitional operation of the facility. There are a variety of ways these services can be obtained, ranging from a traditional design-bid-build model to a vendor-lead procurement and installation.

Given the options, staff recommends issuing a Request for Proposals for project delivery management services. The scope of work would consist of developing the project delivery model; developing the scope of the architectural services; developing the scope of the equipment design, procurement and integration; developing operation and testing plans; refining the schedule and cost estimate; coordinating with a public outreach firm and developing a transitional operations plan.

Additionally, staff recommends soliciting proposals from one or more public outreach firms with expertise in crafting the customer experience that is critical for the success of these types of facilities. Also, staff recommends that the Board find that the project is exempt from the provisions of the California Environmental Quality Act.

**RECOMMENDATION(S):**

Find that the work is exempt from the provisions of the California Environmental Quality Act, authorize the issuance of a Request for Proposals for project delivery management services and authorize the solicitation of proposals from one or more public outreach firms for the Pure Water Demonstration Project.

**FISCAL IMPACT:**

No

**ITEM BUDGETED:**

Yes

**FINANCIAL IMPACT:**

There is no financial impact associated with these actions. Staff will return to the Board to recommend award of work.

**DISCUSSION:**

Most agencies that have undertaken indirect potable reuse projects have constructed and operated a pilot or demonstration project. These projects can vary in size and generally have three goals: treatment technique validation and research, public outreach/acceptance and operator training.

Scope and Layout:

The Pure Water Demonstration Project will be a nominal 100 gallon per minute (gpm) facility that will test fully advanced treatment processes of microfiltration (MF), reverse osmosis (RO), ultraviolet disinfection (UV) and advanced oxidation (AOP) on the JPA's tertiary treated recycled water to produce purified water suitable for surface water augmentation. The JPA successfully received a WaterSMART grant from the Bureau of Reclamation for \$300,000 to conduct additional research at the facility.

The facility will be housed in Building No. 1, the old administrative building on LVMWD's headquarters campus. Some refurbishment will be required to house the demonstration project in Building No. 1, but no new significant construction is anticipated.

Environmental Review:

The demonstration project would consist of minor alterations to an existing public facility involving negligible expansion beyond its existing use. As a result, the work qualifies for a categorical exemption from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. Attached is Notice of Exemption that will be filed upon Board approval.

Project Delivery Management Services:

Development of the demonstration project consists of four main elements: (1) architectural services for the building renovations; (2) vendor and engineering services for the treatment equipment; (3) design and development of public outreach features; and (4) transitional operation of the facility. There are a variety of ways these services can be obtained, ranging from a traditional design-bid-build model to a vendor-lead procurement and installation.

Given the options, staff recommends issuing a Request for Proposals for project delivery management services. The scope of work would consist of the following:

- developing the project delivery model;
- developing the scope of the architectural services;
- developing the scope of the equipment design, procurement and integration;
- developing operation and testing plans;
- refining the schedule and cost estimate;
- coordinating with a public outreach firm; and
- developing a transitional operations plan.

#### Public Outreach:

One of the primary goals of the demonstration project is to provide opportunities for public outreach, education, and acceptance of indirect potable reuse. Understanding the technology of water recycling, the supporting science, the safeguards against failure and the environmental benefits are key drivers in transforming disgust and skepticism to acceptance and support for indirect potable reuse. The vision and key design, and architectural considerations for achieving this are:

- Creating an environment that is clean, uncluttered, orderly and modern, leading to a sense of confidence in the processes and the people who operate it.
- Ample space for a comfortable experience, both in the learning center (old boardroom) and throughout the tour.
- Exhibits and presentations in the learning center prior to the tour, to provide a basic understanding of the process steps and science behind IPR, as well as an area for questions and close out of each tour.
- Color and design palates that are simple, compatible with other JPA partners and adaptable to multiple media.
- Displays and exhibits that draw visitors' attention, build interest and provide background about the safety, benefits and worldwide use of IPR.
- Clear, attractive signage throughout the facility (inside and out) that seamlessly guides people to the right spot and in the right direction.

Tours would start in the learning center, and after an introduction, would wind their way through the facility, highlighting major processes while avoiding chemical and other potentially hazardous areas. One of the last stops would be a water tasting station where the public could taste the purified water. The tours would end in the learning center, allowing for additional questions and answers.

Crafting the customer experience for the demonstration project will be critical to its overall success. As a result, staff recommends soliciting proposals from one or more public outreach firms with expertise in this area for potable reuse demonstration projects.

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

**ATTACHMENTS:**

Notice of Exemption

Notice of Exemption

Form D

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

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

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

(Address)

Project Title: Pure Water Project Las Virgenes-Triunfo: Demonstration Project

Project Location - Specific:

Las Virgenes Municipal Water District, 4232 Las Virgenes Road, Calabasas, CA 91302

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

Description of Nature, Purpose and Beneficiaries of Project:

The Pure Water Demonstration Project will be a nominal 100 gallon per minute (gpm) facility that will test fully advanced treatment processes of microfiltration (MF), reverse osmosis (RO), ultraviolet disinfection (UV) and advanced oxidation (AOP) on the JPA's tertiary treated recycled water to produce purified water suitable for surface water augmentation.

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

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

Exempt Status: (check one)

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

Reasons why project is exempt:

The proposed project is a minor alteration of an existing public utility structure/facility involving negligible use beyond its existing use. This is a categorical exemption and requires a Board determination and filing of a Notice of Exemption.

Lead Agency Contact Person: David R. Lippman, P.E. Area Code/Telephone/Extension: 818-251-2221

If filed by applicant:

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

Signature: Date: 9/5/2017 Title: Director of Facilities and Operations

- [X] Signed by Lead Agency Date received for filing at OPR:
Signed by Applicant

Revised 2005