

**Location:** Las Virgenes Municipal Water District  
**Address:** 4223 Las Virgenes Road  
Calabasas, CA 91302  
**Purpose:** Bi-Monthly Meeting  
**Date and Time:** December 4, 2018 from 11:30 a.m. – 1:30 p.m.  
**Distribution:** Los Angeles WaterReuse Association Chapter Members

**Lunch: Sponsored by Parsons**

Below is a summary of the highlight from the December 2018, bimonthly member meeting of the Los Angeles Chapter of the WaterReuse Association.

The presentations from this meeting can be found at:  
<http://www.watereuse.org/sections/california/losangeles/meetings>

**1. Host presentation: Woolsey Fire; Pure Water Project Las Virgenes – Triunfo (David Lippman, LVMWD)**

David Lippman is the director of the Department of Facilities and Operations at Las Virgenes Municipal Water District (LVMWD). The Facilities and Operations Department is responsible for the day-to-day operation, maintenance, regulatory compliance and replacement needs of the District's potable water, recycled water and sanitation facilities. David described the worst wildfire in the modern history – the Woolsey fire - by showing a fire progression map and fire burn scar map. He presented nearby areas that may experience low water pressure; the south corner of the service area was issued a boil water notice after the fire. LVMWD's recycled water reservoir (Reservoir 2) was used to fight the fire. There was damage to the Westlake Filtration Plant (WLF), including building structures, a bio-filter at the Rancho Las Virgenes Composting Facility, and fire damage resulting in water pipe breaks at Mulholland & Troutdale and Mulholland & Decker Canyon locations.

LVMWD provided relief to local customers affected by the Woolsey fire and facilitated rebuilding efforts. They waived or reduced water and wastewater charges for the billing period, and developed a policy, in coordination with local cities and the Los Angeles County Department of Public Works, to expedite the process and minimize the cost for customers to rebuild their homes.

David then presented on the Las Virgenes-Triunfo Pure Water Project. The first map showed the outline of the Malibu Creek Watershed, including Lake Sherwood, Westlake Lake, and Malibu Lake. The LVMWD was formed in 1958 to provide potable water service to the region which is very poor in local water resources. There is very little groundwater and what ground water there is of very poor quality. LVMWD provides service to West Lake Village, Agoura Hills, Calabasas, Hidden Hills and unincorporated LA County in the Santa Monica Mountains, West Hills and Chatsworth. In 1964, a Joint Powers Authority (JPA) with Triunfo Sanitation District was formed to provide wastewater treatment to the region primarily in the Malibu Creek Watershed. JPA facilities include the Tapia Water Reclamation Facility, a 12-million gallons per day (mgd) activated sludge plant that produces about 10,000 acre-feet of recycled water annually. The water activated sludge comingled with

primary sludge is pumped to the Rancho Las Virgenes Composting Facility where it is digested, dewatered and composted producing a great soil amendment. In the western portion of the District, the Las Virgenes reservoir and filtration plant to help meet summer time and emergency demands. Since the JPA was established, 60% of the wastewater has provided recycled water for irrigation and the composting plant has provided compost material to the community for fertilizer. The District has invested \$11 million in nutrient reduction facilities at the Tapia Water Reclamation Facility to meet a 2003 Nutrient TMDL, and spends up to \$600,000 per year to divert flow from Malibu Creek between April and November.

There are six major challenges of the JPA, including imbalance of the recycled water supply and demand, regulatory discharge requirements of nutrients to Malibu Creek, regulatory discharge prohibition in the dry season and creek flow augmentation requirements in the wet season, maximizing beneficial use of recycled water, minimizing the impacts to the cost of service, improving drought resiliency and local water supply reliability, and reducing dependence on costly imported water.

In 2015, LVMWD embarked on a stakeholder driven process to develop a road map and fully utilize the recycled water and established guiding principles that steered the process and decision-making. A new 6-mgd advanced water treatment (AWT) plant was identified to purify excess recycled water to drinking water standards for storage in a drinking water reservoir. They are currently building a demonstration project, completing an AWT siting study and a Title XVI feasibility study, and seeking funding. In the future, they will consider brine disposal options, conduct additional modeling of the reservoir, start preliminary design and environmental analysis, consult with regulators, and continue to seek funding. David concluded with the possibility that LVMWD may move from surface water augmentation to treated water augmentation where the purified water is just another raw water source in Las Virgenes Reservoir or is piped directly into the drinking water distribution system.

## **2. Sponsor presentation: Parsons' Advances in Water Reclamation/Advanced Purification Treatment and Delivery Methods (*Surendra Thakral and Ali Ahmadi/Parsons*)**

Surendra Thakral is Senior VP of Technology & Business Development at Parsons. Ali Ahmadi is a Principal Engineer with Parsons. They presented Parsons' advances in water reclamation, advanced purification treatment, and delivery methods. Surendra introduced Parsons as a technology-driven engineering services firm with over 74 years of water/wastewater engineering and construction services. The company is a leader in water, wastewater, recycled water, biosolids management, energy recovery and infrastructure. It has more than 16,000 employees across 120 offices worldwide. In-house capabilities include condition assessment, planning, preliminary and detailed design, as well as construction, project management, commissioning and validation, and alternative delivery.

Ali presented on the current Regional Water Recycling Plants (RP-1 and RP-5) upgrade and expansion project at Inland Empire Utilities Agency (IEUA) in Chino, CA. For RP-1, Parsons completed predesign for a 40-mgd MBR system, evaluated possibilities to eliminate flow equalization for odor control and developed predesign of liquid and biosolids facilities expansion to meet the regulatory requirements and to produce high-quality recycled water and biosolids for use in composting. For RP-5, Parsons also completed predesign for 30 mgd MBR and UV systems and will expand the biosolids management system to 40 mgd, including thickening, anaerobic digestion and dewatering, and potential food waste treatment. The increased biosolids treatment capacity at

RP-5 will replace RP-2, allowing that facility to be decommissioned. Parsons evaluated AWT for total dissolved solids (TDS) reduction and indirect potable reuse; it is a two-step process of TDS followed by organics removal.

Ali presented another water reclamation facility update and expansion project in Visalia California. This 22-mgd project that uses MBR and UV technologies, and includes recycled water distribution, and a 1-MW solar system, came online at the end of July 2018. It will produce recycled water that can be used to irrigate landscaping and farmland. Another project presented by Ali was for a greenfield 8-mgd recycled water treatment facility in the City of Fresno Airport for indirect potable and non-potable uses. Parsons has completed feasibility studies and currently in the permitting stage. Soon, they will move on to the construction phase which is valued at \$125M.

Surendra then presented Parsons' recent alternative project delivery experience with two examples: West Basin Municipal Water District's (WBMWD) Edward C. Little Water Recycling Facility Phase V Expansion project and Silicon Valley Clean Water (SVCW) Front of Plant project. For the WBMWD design-build project, the Phase V expansion included installing a new pre-ozonation system, addition of new microfiltration, and reverse osmosis treatment units, and expansion of the UV/peroxide system to increase delivery to the West Coast Basin seawater intrusion barrier. This project also included expansion of the Title 22 treatment system, improvements to the solids dewatering system and chemical feed systems. The Phase V project was completed in 2013 with construction value of \$63M. The SVCW Front of Plant project is currently underway and is being delivered as a progressive design-build through a joint venture. This project incorporates conveyance system improvements to transport wastewater from member agencies to the SVCW wastewater treatment plant in the challenging seismic, high groundwater, and young bay mud conditions. The work also includes electrical, civil, and odor-control facilities.

### 3. Water Recycling Legislative/Regulatory Updates (*Raymond Jay*)

Raymond mentioned that governor had until September 30<sup>th</sup> to sign, not sign, or veto bills sent to him. Most bills take effect on January 1<sup>st</sup>. For the 2018 legislations, AB 1668 and SB 606 were chaptered; AB 2072 was held in committee; SB 966, SB 1422, and AB 2062 were approved by Governor. Four 2018 bills were approved: AB 1668 Water Management Planning (Friedman), SB 606 Water Management Planning (Hertzberg); SB 966 Onsite Treated Nonpotable Water Systems (Weiner), and SB 1422 California Safe Drinking Water Act Microplastics (Portantino).

Raymond also listed 2019 California legislative dates, 2019 potential legislation, and identified new issues that may be addressed. In addition, Raymond updated the Chapter on the status of CA recycled water regulations. The purpose, status, and WaterReuse Association's concerns regarding the state's Recycled Water Policy amendment was also discussed.

Proposed recycled water Federal FY19 legislation include HR 875-USBR Water Project Streamlining Act, HR 2729 Western Water Recycling and Drought Relief Act, and HR-5127 Water Recycling Investment and Improvement Act.

### 4. Regulatory Agency Update:

- **LA County Department of Public Health (Robert Bueras)**

All submitted applications shall include completed set including good photographs and detailed plans.



**5. California State Section Update (Monica Gasca)**

- Webcast scheduled on December 11, 2018: Using Onsite Water Recycling Systems to Transform Water Management
- 2019 WaterReuse California annual conference Awards of Excellence nominations due January 7, 2019
- 34<sup>th</sup> Annual WaterReuse Symposium technical program call for abstracts due to February 7, 2019; Symposium to be held September 8-11, 2019
- 2019 WaterReuse California Annual Conference to be held March 17-19, 2019 in Garden Grove

**6. Chapter Updates (Judi Miller)**

- Officer elections for 2-year terms was held in this meeting.
- Chapter Trustee candidate Evelyn Cortez-Davis with LADWP introduced herself.
- One vote per member organization of the national WaterReuse Association was cast.

**7. Next Meetings**

- February 12, 2019 – Host/Sponsor: *Carollo Engineers*
- April 9, 2019 – Host: *City of Santa Monica*; Sponsor: *TBD*

**8. Adjournment**.....1:30 p.m.

**Los Angeles Chapter Officers for 2018**

Raymond Jay, President	213-217-5777	<a href="mailto:rjay@mwdh2o.com">rjay@mwdh2o.com</a>
Fred Geringer, Vice President	626-463-0390	<a href="mailto:fredg@trusselltech.com">fredg@trusselltech.com</a>
Judi Miller, Secretary/Treasurer	213-228-8236	<a href="mailto:judi.miller@ch2m.com">judi.miller@ch2m.com</a>
Monica Gasca, Chapter Trustee	562-908-4288 x3508	<a href="mailto:mgasca@lacs.org">mgasca@lacs.org</a>
John Robinson, Past-President	626-375-9389	<a href="mailto:jrobinson@johnrobinsonconsulting.com">jrobinson@johnrobinsonconsulting.com</a>

**Meeting Attendees**

<b>MEMBER</b>		<b>ORGANIZATION</b>
Ali	Ahmadi	Parsons
Shadi	Bader	Santa Clarita Valley Water District
Anir	Bhagwat	Parsons
Lauren	Bray	Carollo Engineers
Robert	Bueras	LA County Department of Public Health
Gilbert	Chacon	Burbank Water and Power
Paul	Chau	Kennedy/Jenks
Denise	Chow	LASAN
Evelyn	Cortez-Davis	LADWP
Matt	Elsner	Woodard & Curran
Everett	Ferguson	WRD
Hannah	Ford	Carollo Engineers
Monica	Gasca	LACSD
Fred	Gerringer	Trussell Technologies
Viet	Ha	LA County Department of Public Health
Chaz	Harrison	LA County Department of Public Health
Humberto	Jaramillo	HDR
Raymond	Jay	Metropolitan Water District of Southern California
Don	Jones	Central Basin Municipal Water District
Kelvin	Kasai	LA County Department of Public Health
Sunny	Kim	NEOTEC USA
Elisa	Lee	Woodard & Curran
Jared	Lee	Burbank Water and Power
David	Lippman	Las Virgenes Municipal Water District
John	Lockett	LADWP
Sarah	Melberg	LASAN
Enayet	Miah	LADWP
Judi	Miller	CH2M, now Jacobs
Dusty	Moisio	Rowland Water District
Ray	Mokhtari	Metropolitan Water District of Southern California
David	Pedersen	Las Virgenes Municipal Water District

**Los Angeles Chapter of the WaterReuse Association**  
**December 4, 2018 MEETING SUMMARY**



<b>MEMBER</b>		<b>ORGANIZATION</b>
Gilberto	Ramirez	LA County Department of Public Health
Elisa	Reynolds	LADWP
Oliver	Slosser	Stantec
Karen	Snyder	Katz & Associates
Nicolle	Steiner	ESA
Amy	So	LA Bureau of Engineering, EED
Dian	Tanuwidjaja	Long Beach Water Department
Surendra	Thakral	Parsons
Glenn	van Eekout	LA County Department of Public Health
Ling	Wang-Stanley	CH2M, now Jacobs
Steven	Webb	LA Regional Water Quality Control Board
Ryan	White	Rowland Water District
Bob	Yamaguchi	Walnut Valley Water District
Christina	Zabalza	LASAN
Adam	Zacheis	Carollo Engineers

TOTAL: 46