

**Location:** Long Beach Water Department  
**Address:** Long Beach Ground Water Treatment Plant  
2950 Redondo Ave  
Long Beach, CA 90808  
**Purpose:** Bi-Monthly Meeting  
**Date and Time:** April 10, 2018 from 11:30 a.m. – 1:30 p.m.  
**Distribution:** Los Angeles WaterReuse Association Chapter Members

**Lunch: Sponsored by HDR**

Below is a summary of the highlight from the April 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>

11:45 Raymond Jay Begins Introduction

1. **Venue host presentation: Drinking the Los Angeles River** (*Dean Wang, Patrizia Hall, Dian Tanuwidjaja/Long Beach Water Department*)

Since the 1980's, the Long Beach Water Reclamation Plant (LBWRP) has produced recycled water. Currently, 50% of its recycled water is used for irrigation, 25% for the seawater barrier and 25% for industrial uses. The LBWRP serves approximately 7,000 to 8,000 acre-ft per year. The Long Beach Water Department is investigating if the Los Angeles River could be used for drinking water purposes to diversify its water portfolio. The Los Angeles River runs through the middle of the city and could provide cost savings relative to purchasing water from the Metropolitan Water District if feasible to treat its dry weather flow to drinking water standards. Potable reuse technologies could be considered to treat LA River's highly impaired source water to drinking water quality.

The Long Beach area's water resources include local groundwater wells providing up to 39% of its total water resources, with 23% from imported water, 7% from recycled water and 31% from conservation efforts. The LA River could provide 75 MGD from discharges by three permitted, publicly-owned treatment works. Historically, the LA River was a drinking water source for the local population. In the 1930's, the LA River was lined with concrete for flood control purposes, and is as a treated wastewater receiving water rather than as a water resource.

The Long Beach Water Department's 5-gpm pilot site location is at the Dominguez Gap Wetlands Channel near Del Amo Boulevard. Raw water grab samples were collected from the channel over a 2-week period which exhibited a wide range in solids loading. This informed how the treatment would need to account for high variability of the LA River water quality. Currently, different filter sizes, cartridge filters and granular activated carbon (GAC) are being tested. All of the testing equipment had to fit within a standard 10-ft by 10-ft shipping container and includes an influent tank, an automatic backwash screen, media filter, cartridge filters and a reverse osmosis (RO) system. Results thus far indicate greater total suspended solids (TSS) during wet weather

conditions than dry weather conditions. Future work includes a 3-5-year scale-up demonstration facility, and later a 5-10-year full-scale system. For more information, a presentation will be provided at the AWWA Annual Conference & Exposition (ACE18) conference in June 11-14, 2018.

2. **Sponsor presentation: HDR Does Reuse** (*Steve Friedman/HDR*)

HDR is a 10,000-employee company with 831 employees located in California. In Southern California, HDR has 10 offices and conducts work in architecture, health care, and engineering (mainly transportation and water). HDR has a condition assessment group based in Claremont including 30 engineers and technicians that are internationally recognized experts. Some of HDR's experts are located in Southern California.

HDR has performed work in recycled water across the United States including Southern California's water reclamation treatment facilities – their design, condition assessment as well as planning. Projects include the Recycled Water Master Plan for the City of Riverside, Wildomar Recycled Water Phase 1 Expansion for Elsinore Valley Municipal Water District, Edward C. Little Water Reclamation Facility Phase IV Expansion (Design-Build), Irvine Ranch Water District Michelson Water Reclamation Facility Phase 2 Expansion Design and Recycled Water Salt Management Plan, and the City of San Diego Pure Water North City Conveyance Pipeline. HDR has also assisted with public communications on DPR projects for the WaterReuse Research Foundation and the Metropolitan Water District of Southern California.

For more detailed information, HDR will be presenting at the ACE conference in June as well.

3. **Technical Topic: Proposed Potable Reuse Research Funding** (*Warren Teitz/Metropolitan Water District of Southern CA*)

The Foundational Actions Funding (FAF) Program was approved by Metropolitan's Board in 2013 and has funded \$3 million for 13 studies with 13 member agencies. Member agencies are encouraged to apply online for funding of low-cost, low-risk preliminary actions pertaining to recycling, groundwater, stormwater and seawater desalination to prepare for unforeseen water supply challenges. Metropolitan funded up to \$500,000 per project per member agency which was matched with non-Metropolitan funds dollar-for-dollar by the member agencies. Metropolitan hosted a technical conference involving approximately 230 participants that showcased the FAF Program's studies.

There are two Future Supply Actions Funding Program elements including Potable Reuse Funding by the Water Research Foundation (WRF) and the Member Agency Studies. Approximately \$1 million is allocated for research for potable or non-potable reuse, and approximately \$3.5 million allocated for the member agency studies. WRF's funding goal is approximately \$8 million for advancing potable reuse initiatives, and the SWRCB is providing a \$4.5 million grant. There is broad water industry support to fund California agencies, state coalitions and consulting firms. For direct potable reuse (DPR)-related studies, Metropolitan's match is \$325,000, and for indirect potable and non-potable reuse related studies, Metropolitan's match is \$650,000. Metropolitan would be selecting studies that would be most beneficial to Metropolitan and others. These will be competitive RFPs (out in the second or third quarter)

where studies must meet the minimum criteria, member agencies will prioritize their own studies and will be selected by an expert panel.

The proposed enhancements to the program include holding member agency meetings to solicit feedback, prioritizing research needs, promoting partnering among agencies, as well as providing for a thematic focus such as sensors. It is highly encouraged that consulting firms work with member agencies to strategize potential beneficial studies using innovation, to generate projects, and to apply for funding; universities may also be involved in research.

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

##### California Legislation

April 27<sup>th</sup> is deadline to report fiscal bills, June 1<sup>st</sup> is last day to pass house of origin, and June 15<sup>th</sup> is last day to pass budget.

**AB 1668:** involves more conservation and water use efficiency where it requires indoor residents to use 55 gpcd and establishes standards by 6/30/2022. Governor is pushing conservation and will put it on the budget bills if this bill does not pass. Potable recycled water receives 10% bonus incentive towards meeting urban water use objective. Each water agency is going to have to find the water use in their area and can subtract the recycled water use, thus getting credit for recycled water use.

**SB 966:** sponsored by San Francisco Public Utilities Commission (SFPUC) to adopt risk-based regulations to encourage use within buildings of graywater, rainwater, stormwater, or blackwater; prohibits installation except under adopted local program, systems approved by local agency prior to SWRCB adoption of regulations have up to two years to comply with statewide regulations. **AB 1489:** sponsored by Las Virgenes MWD; amends Prop 68; eliminates prohibition for using funds for projects that augment surface water reservoirs; if Prop 68 passes, then about \$100 million can be used for recycled water projects.

**AB 2072:** maintains that the SWRCB establishes/maintains research on CECs and broadens how they identified these such as occurrence in water, sediments, organisms, etc.

##### Federal Legislation

##### **Legislation Watchlist:** -

**AB-2042:** Personal tax credits for residential graywater reuse amended 3/20/18

**SB-558:** Property taxation - new construction exclusion and rain water capture system approved

**SB-952:** Water conservation for local water supplies

**SB-979:** Water Quality, Supply and Infrastructure Improvement Act of 2014 approved

**AB-2828:** Waste discharge requirements - produced water

**Recycled Water Quick Links** – on SWRCB’s website – observe the status of the recycled water survey – caution: website is a little outdated

##### Federal Update

FY18 appropriations were passed where WIFIA funding increased to \$63 million.

**HR 5127** – increase Title XVI funding from \$50M to \$500M, eliminate cap for Title XVI projects, increase Alternative Water Source Projects program to \$375M, and allow a 50% match.

**Title XVI** Evaluation Criteria – Comments were due April 12, 2018– the criteria are changing, economic benefits include more points, and there are differences on how public land is used.

5. **Regulatory Agency Update:**
  - a. Los Angeles County Department of Public Health (*Robert Bueras*)
    - No briefing provided
  - b. Los Angeles Regional Water Quality Control Board (*Elizabeth Erickson*)
    - Regional Board staff changes – Deborah Smith became the Executive Director in April
  - c. SWRCB Division of Drinking Water Programs (*Saeedreza Hafeznezami*)
    - No briefing provided
  
6. **California State Section Update** (*Monica Gasca*)
  - The California annual conference was in Monterey Mar 25-27 with 530 in attendance. The next conference is the National WaterReuse Symposium in Austin TX Sept 9-12, 2018.
  - The AWWA/CWEA advanced water treatment operator's certification program is expected to be up and running by September 2019.
  
7. **Funding opportunities** (*Raymond Jay*)
  - State Board is updating its CWSRF funding intended use plan
  - Metropolitan's Local Resources Program (LRP) local projects funding and Onsite Retrofit Program to connect to onsite recycled water lines have funding that needs to be allocated to worthy projects
  
8. **Chapter Updates** (*Judi Miller*)
  - a. Approval of February 2018 Member Meeting summary
    - February 2018 Member Meeting Summary was approved with all in favor.
    - Volunteer opportunities to contribute to chapter:
      - Chapter Photographer
      - Technical Topics Committee to address ideas for future technical meeting topics – A survey is conducted annually to identify technical topics and potential speakers
  
9. **Membership Roundtable** (*Fred Geringer*)
  - Regarding the conference last month, a fair amount of people in the audience attended. Take-aways from the conference by member in the audience: Most interesting that one of the SWRCB members, Steve Moore, indicated that DPR implementation did not have to wait for regulations; the State Board has the authority to approve individual projects.
  - Some agencies are talking more about DPR and others wanting to incorporate DPR in the near future in advance of regulations.

- Are there concerns about de facto DPR (80% wastewater in LA River) for Long Beach project? Long Beach Water Department will address such issues as they arise.

10. **Next Meetings**

- June 12, 2018 – Host: *Burbank Water & Power*; Sponsor: *Burbank Water & Power*
- August 14, 2018 – Host: *TBD*; Sponsor: *TBD*
- October 9, 2018 – Host: *TBD*; Sponsor: *TBD*

11. **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**

MEMBER		ORGANIZATION
Carlos	Aguilar	California Water Technologies
Andrea	Antony	Long Beach Water Department
Dan	Bacani	LA County DPH
Matthew	Bequette	LASAN
Susan	Chang	LASAN
Paul	Chau	Kennedy/Jenks
Nicholas	Chow	UCLA
Cecile	Coronel	LADWP
Gerry	Filteau	SPI
Eryn	Fleming	LASAN
Steve	Friedman	HDR
Emi	Fujii	Stantec
John	Furuta	LA County Department of Public Health
Monica	Gasca	Sanitation Districts of Los Angeles County
Diane	Gatza	WRD
Fred	Geringer	Trussell Technologies

MEMBER		ORGANIZATION
Cory	Heggtveit	Tetra Tech
Eric	Hoek	Water Planet
Jinny	Huang	Long Beach Water Department
Scott	Hungerford	LADWP
Miranda	Iglesias	Katz and Associates
Raymond	Jay	Metropolitan Water District of Southern California
David	Jensen	CDM Smith
Donald	Jones	Central Basin Municipal Water District
Marcos	Joseph	AECOM
Sunny	Kim	Neotec
Jewels	Lagman	LASAN
Jared	Lee	Burbank Water and Power
John	Lockett	LADWP
Ian	Mackenzie	Hazen and Sawyer
Dave	Miller	Rowland Water District
Judi	Miller	CH2M, now Jacobs
Monica	Morales	CH2M, now Jacobs
James	Morgutia	Long Beach Water Department
Cris	Morris	LA Regional Water Quality Control Board
Stephen	Opot	LASAN
Adelina	Pirijanyan	Black & Veatch
Nicolette	Powell	Long Beach Water Department
Jasmine	Roashan	Long Beach Water Department
Julie Ann	Robinson	Glendale Water & Power
Curt	Roth	DRP
Amy	So	LA BOE
Bob	Sun	LADWP
Shieva	Taat	LASAN
Dawn	Taffler	Kennedy/Jenks
Dian	Tanuwidjaja	Long Beach Water Department
Tai	Tseng	Long Beach Water Department
Tony	Umphenor	Burbank Water and Power

<b>MEMBER</b>		<b>ORGANIZATION</b>
Jennyfer	Vasquez	Long Beach Water Department
Joe	Walters	Purple Pipe Consulting
Dean	Wang	Long Beach Water Department
Sunny	Wang	Brown and Caldwell
Steven	Webb	LA Regional Water Quality Control Board
Chris	Williams	CDM Smith
Eric	Wood	LA County Department of Public Health
Bob	Yamaguchi	Walnut Valley Water District
Adam	Zacheis	Carollo
Yan	Zhang	Long Beach Water Department
Rick	Zimmer	Eurofins