

Location: City of Burbank, Department of Water & Power
Address: City of Burbank, Department of Water & Power
64 W. Magnolia Boulevard
Burbank, CA 91503
Purpose: Bi-Monthly Meeting
Date and Time: June 12, 2018 from 11:30 a.m. – 1:30 p.m.
Distribution: Los Angeles WaterReuse Association Chapter Members

Lunch: Sponsored by Burbank Water & Power

Below is a summary of the June 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. **Venue host presentation: An Update on Recycled Water in the City of Burbank** (*Jared Lee / Burbank Water & Power*)

Recycled water from the Burbank Water Reclamation Plant (BWRP) has been in use since 1967. BWRP currently treats 5 to 7 MGD of wastewater and produces tertiary treated effluent. There are several uses for the recycled water BWRP produces including wildfire firefighting. The majority of the recycled water use is for irrigation (45% of their recycled water demand) and power generation (36% of their recycled water demand). The 310 MW Magnolia Power Plant uses recycled water for its cooling towers and heat recovery steam generator, and the 45 MW Lake One Power Plant uses recycled water for its cooling towers.

Since 2007, the City of Burbank Water and Power has extended its distribution network and will continue extending it with the additions of the Northern Burbank Extension and Scott Connection, the Valhalla Extension, the Whitnall and Chandler Connections, the Studio District Extensions and Verdugo Connection, the Equestrian Extension, the Northeastern Burbank Area Extension and, lastly, the Glendale-Burbank Glenoaks Connection. Some of Burbank Water and Power's major partners include Burbank Unified School District, City of Burbank Parks and Recreation, Warner Brothers, Walt Disney Studios, and the Los Angeles Department of Water and Power. Future partners are to include Nickelodeon Animation, Hollywood Burbank Airport Replacement Terminal, Caltrans I-5 Realignment, and the Burbank Channel Bikeway. Some future work for Burbank Water and Power includes its Olive Main Extension to begin construction in late June, the Winona/Hollywood Way Main Extension, a feasibility study for direct and/or indirect potable reuse, as well as optimizing its operations through the evaluation of its diurnal supply and demand.

There has been an expansion in the volume of recycled water used since the adoption of the Waste Discharge Requirements (WDR)/Water Recycling Requirements (WRR) permit in 1991. In 2016, the new WDR/WRR required Burbank Water and Power to file a Wastewater Change Petition with the Water Rights Division of the State Water Resources Control Board, per Water

Code Section 1211. Two years later, on April 20, 2018, the petition was approved. The process for approval included public outreach to affected tribal groups, revisions, a CEQA Initial Study/Negative Declaration public comment period, State Board comments and responses to those comments.

Burbank Water and Power modeled the potential impacts of the increased water recycling on the Los Angeles River. The findings were that the average low flow month would be August based on data from years 2005 to 2015, where flows from BWRP in August will be reduced from 6.9 cfs to 2.8 cfs. Results from the model concluded that the potential physical impact effects and cumulative project effects were found to be minor, its hydrologic effects would be nearly undetectable in the field, its cumulative effects only slightly detectable, and there would be less than significant impacts to the biological resources. The model results indicated that there would be an average flow depth change of 0.48-inch. The resulting water levels would not be expected to drop below aquatic plant root zones and less than a 0.5-inch cumulative water level reduction will not impact fish migration or movement of native aquatic species. While BRWP's planned flow reduction has been approved, the State Board did note that instream flow requirements for the LA River may be established in the future and could result in modifications to the order. Because the City of Burbank does not have naturally occurring rights to groundwater, the City's raw water is imported and the City intends to reuse all that it feasibly can.

2. **Technical Topic: Update on the State Board's Activities Related to Constituents of Emerging Concern** (*Clair Waggoner and Laura McLellan / State Water Resources Control Board*)

The State Board's Division of Water Quality Groundwater Branch maintains a section for Sustainable Water Plans and Policies focused on recycled water, desalination, and constituents of emerging concern (CECs). The history of the California Water Board's focus on CECs dates back to 2009 when it convened an expert panel on recycled water and aquatic ecosystems and, in 2011, established an expert panel on bioanalytical tools for monitoring CECs in recycled water. In 2013, the Recycled Water Policy was adopted which incorporated CEC monitoring requirements for groundwater recharge based on the CEC Science Advisory Panel's recommendations. An ambient pilot study was implemented following the adoption of the Recycled Water Policy, and, in 2018, a final report of guidelines for monitoring CECs in recycled water was created.

The CEC Science Advisory Panel for Recycled Water is currently researching monitoring methods for a risk-based approach, determining if the CECs will be present in recycled water at concentrations of concern, and if there are other monitoring methods that should be considered. The panel's scope includes recycled water from municipal sources where CEC monitoring would be needed for potable reuse applications (such as groundwater recharge in the form of either spreading or injection), and reservoir water augmentation. The Panel recommendations and proposed amendment requirements for 2018 includes more targeted chemistry performance and surrogates for groundwater recharge surface spreading than for subsurface injection and reservoir water augmentation including the addition of gemfibrozil and iohexol for targeted chemistry performance and the addition of nitrate, and total fluorescence for surrogates. The State Board needs to create programmatic changes to better handle and identify health-based and performance-related CECs. Public comments on this subject are welcome in order to improve testing regulations. Improving monitoring for CECs can be approached through analytical tool development in the targeted chemistry approach (known knowns), the bioanalytical approach

(known unknowns) and the non-targeted analytical (NTA) approach (unknown unknowns). The one-by-one monitoring strategy is not feasible, and these approaches will help alleviate resource constraints by monitoring multiple CECs in one analysis that are either known CECs or unknown CECs. Using the CEC ambient monitoring framework in conjunction with traditional methods will create a better holistic investigation and better corrective actions for CECs. The State Board's proposed Recycled Water Policy Amendment is posted on their website; comments are due June 26, 2018 to the clerk.

A \$1 million grant will support the development of direct potable reuse regulations and a \$3.5 million grant will support other potable and non-potable research. Those in the Division of Drinking Water would like to analyze findings from research before developing regulations, such as for quantitative molecular risk assessments, in order to decrease the factors of safety that these regulations will be based upon. If samples from agencies can be provided for this research, this would be greatly appreciated. The long-term goal is to create a CEC strategy based upon a better repository for data in the State of California that can help identify data gaps.

www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/

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

California Legislation

August 31st is the last day to pass bills and September 30th is the last day for the Governor to sign and veto bills.

AB 1668: involves more conservation and water use efficiency where it requires indoor residents to use 55 gallons per capita per day (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. This was signed by the Governor at the end of May and approved, but contingent on passage of SB 606.

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 State Board 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 State Board establishes/maintains research on CECs and broadens how they identified these such as occurrence in water, sediments, organisms, etc. Held under submission.

Recycled Water Quick Links are provided on the State Board's website (link below); can monitor the status of the recycled water survey; caution: website is a little outdated.

https://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/recycledwater_research.shtml

Federal Legislation

Legislation Watchlist: -

AB-2042: Personal tax credits for residential graywater reuse. Held under submission 5/25/18.

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

SB-952: Water conservation for local water supplies. Did not meet house of origin deadline.

SB-979: Water Quality, Supply and Infrastructure Improvement Act of 2014 approved. Did not meet house of origin deadline.

AB-2828: Waste discharge requirements - produced water. Did not meet house of origin deadline.

Federal Update

FY19 House passed appropriations with **WIFIA** funding increased to \$70 million. House passed \$65M for Title XVI.

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.

4. **Regulatory Agency Update:**

a. Los Angeles County Department of Public Health (*Robert Bueras*)

- Newly constructed industrial sites that use recycled water need to have a backflow preventer on the recycled line as well as the domestic meter side for redundancy measures
- Still enforcing the 10 feet horizontal separation between recycled water and potable water
- “Plan-Check” – need plans delivered early to get them approved in the most efficient way possible where no inspections will be completed until a plan-check is submitted
- Please call 213-430-5290 if you have any questions

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

- WaterReuse National Conference – Sept 11-15. Accepting abstracts currently. Astronaut (Scott Kelly) is to be a keynote speaker.
- Rich Nagel is the new president of WaterReuse and will speak to our LA Chapter at the next meeting in August.

6. **Focus Areas: Funding opportunities** (*Raymond Jay*) / *John Robinson*

- Four Funding Opportunity Announcements (FOAs) are out currently; all four Bureau of Recreation opportunities are due in July. Need to get them in; awarded by September.
- No changes in Metropolitan programs.

- Stormwater, recycled water, and groundwater are beginning to intermix. If there is a contaminated well and would like to do planning or construction for it, this requires a 3-page proposal due by the end of June. Up to \$500,000 for any planning and up to \$500,000 for any construction projects.
- List three Department of Water Resources Management Plans. This Proposal Solicitation Package (PSP) is not out. If you have a package for recycled water customers, they have approved this in the past.
- There will be a Funding Fair through the California Financing Coordinating Committee on August 30, 2018 to talk about their grounds that cover everything that is “wet”, and there are also opportunities to talk through your project with a representative. Registration is free and will be held at LA County of Public Works. Attendance is typically around 30 people.
- Prop 68 just passed on June 5th where \$80 million will go towards recycled water projects.
- A new \$8 billion bond will create more funding for recycled water - \$450 million for water infrastructure such as pump stations and pipelines.

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

- a. Approval of April 2018 Member Meeting summary
 - April 2018 Member Meeting Summary was approved with all in favor.
 - Volunteer opportunities to contribute to chapter:
 - Chapter Photographer (Jared Lee volunteered – thank you, Jared!)
 - Need sponsors for next three meetings – 2 small firms may want to consider combining resources for joint sponsorship

8. **Membership Roundtable** (*Fred Gerringer*)

- We are seeking sponsors for our upcoming meetings – vendors/consultants needed!
- This forum provides an opportunity for open discussion; if you have any questions, please send Fred an email (address below) with your question to discuss at the next meeting.
- LA County Sanitation Districts’ experience with 1211 petition - *Erika Bensch*: Recycled water that is produced by 5 of the Sanitation Districts’ water reclamation plants and that is not used by their water agency partners or other recycled water users is discharged to various points along the San Gabriel River and its tributaries. According to State Water Code Section 1211, the Sanitation Districts must submit a Wastewater Change Petition (a.k.a. 1211 petition) for approval by the State Board Division of Water Rights prior to a change in the purpose and place of use of recycled water that will result in reduced discharge flows to a waterbody. The Sanitation Districts plan to file petitions to request diversion of San Gabriel River discharges from their reclamation plants to direct delivery via pipeline to water agencies for reuse purposes. The California Department of Fish and Wildlife (CDFW) advises State Board staff on the habitat impacts and will likely provide comments on the 1211 petitions. During this 1211 process, LACSD has been working with CDFW for at least three years as well as US Fish and Wildlife (USFW). California Environmental Quality Act (CEQA) documentation must be completed before the State Board can act on the petitions. In response to CDFW and USFW concerns and the CEQA requirement, the

Sanitation Districts have prepared a Draft Initial Study/Mitigated Negative Declaration (IS/MND) that specifically addresses the potential hydrological and biological impacts of the proposed discharge flow reductions to the San Gabriel River. Due to habitat concerns for sensitive bird species, inspections in trees and bushes and respective canopies are to be completed. The Draft IS/MND is available on the Sanitation Districts' website: (https://www.lacsd.org/residents/documents_for_public_review.asp) with a 30-day comment period ending 8/10/18 and will hopefully be adopted in September.

9. **Next Meetings**

- August 14, 2018 – Host: *LA County Department of Public Health*; Sponsor: *TBD*
- October 9, 2018 – Host: *Central Basin Municipal Water District*; Sponsor: *TBD*
- December 4, 2018 – Host: *TBD*; Sponsor: *TBD*

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

Los Angeles Chapter Officers for 2018

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

Meeting Attendees

MEMBER		ORGANIZATION
Jenny	Anderson	Santa Clarita Valley Water Agency
Dan	Bacani	LA County Department of Public Health
Shadi	Bader	Santa Clarita Valley Water Agency
Erika	Bensch	Sanitation Districts of Los Angeles County
Matthew	Bequette	LASAN
Carlos	Borja	LA County Department of Public Health
Monisha	Brown	Sanitation Districts of Los Angeles County
Robert	Bueras	LA County Department of Public Health
Flor	Burrola	LASAN
Gilbert	Chacon	Burbank Water and Power
Susan	Chang	LASAN
Paul	Chau	Kennedy/Jenks

MEMBER		ORGANIZATION
Denise	Chow	LASAN
Veronica	Cuevas	LA Regional Water Quality Control Board
Michael	De Ghetto	Glendale Water & Power
Brian	Dietrick	Woodard & Curran
Robert	Doxsee	Burbank Water and Power
Matt	Elsner	Woodard & Curran
Everett	Ferguson	WRD
Eryn	Fleming	LASAN
John	Furuta	LA County Department of Public Health
Tom	Gerolo	Glendale Water & Power
Fred	Gerringer	Trussell Technologies
Viet	Ha	LA County Department of Public Health
Raymond	Jay	Metropolitan Water District of Southern California
Joseph	Le	LADWP
Jared	Lee	Burbank Water and Power
Qiong	Lei	LASAN
Eric	Leung	DRP Engineering
Brittany	Liu	WRD
John	Lockett	LADWP
Scott	Lynch	Black & Veatch
Bill	Mace	Burbank Water and Power
Luis	Macias	LADWP
Joseph	Marcos	AECOM
Duarte	Mazlin	AECOM
Laura	McLellan	State Water Resources Control Board
Judi	Miller	CH2M, now Jacobs
Ray	Mokhtari	Metropolitan Water District of Southern California
Tom	Monk	Walnut Valley Water District
Monica	Morales	CH2M, now Jacobs
Bassil	Nahhas	Burbank Water and Power
Stephen	Opot	LASAN
Saik-Choon	Poh	DRP Engineering

MEMBER		ORGANIZATION
Adelina	Pirijanyan	Black & Veatch
Gilberto	Ramirez	LA County Department of Public Health
John	Robinson	John Robinson Consulting
Julie Ann	Robinson	Glendale Water & Power
Chris	Saenz	Santa Clarita Valley Water Agency
Amy	So	LA BOE
Shiva	Taat	LASAN
Belal	Tabannaj	LA County Waterworks
Anthony	Tew	LADWP
Michael	Thompson	Burbank Water and Power
Tony	Umphenor	Burbank Water and Power
Yvaine	Valenzuela	LASAN
Roumiana	Voutchkova	Pasadena Water and Power
Claire	Waggoner	State Water Resources Control Board
Joe	Walters	Purple Pipe Consulting
Dean	Wang	Long Beach Water Department
Kody	Whisman	Burbank Water and Power
Chris	Williams	CDM Smith
Bob	Yamaguchi	Walnut Valley Water District
Jason	Yim	Santa Clarita Valley Water Agency
Adam	Zacheis	Carollo Engineers

TOTAL: 65