

Los Angeles Chapter of the WaterReuse Association
MEETING SUMMARY



Location: Castaic Lake Water Agency
Address: 27234 Bouquet Canyon Road
Santa Clarita, CA 91350
Purpose: Bi-Monthly Meeting
Date and Time: October 8, 2013 from 11:30 a.m. – 1:30 p.m.
Distribution: Los Angeles WaterReuse Association Chapter Members

Lunch: Sponsored by Black and Veatch

Below is a summary of highlights from the October member meeting of the LA Chapter of the WaterReuse Association.

1) Lunch sponsor presentation: Overview of the Initial Expansion of OCWD's Groundwater Replenishment System (Sunny Wang, Andrew Lazenby)

Andrew introduced Sunny, a Senior Process Engineer with Black and Veatch's Los Angeles office, who described key elements of the 30-mgd expansion of the GWRS advanced treatment system.

The four key areas for the initial expansion were secondary effluent flow equalization, energy recovery devices (ERD), new reverse osmosis (RO) train with a focus on allowing easier operator access to the underground piping gallery, and the piloting of a new lime slurry system (RDP Lime Slake System) that is a weight-controlled system rather than a flow-paced dosing system. The ERDs produce a little less flow in the first stage of RO treatment, while getting more flow out of subsequent stages. The resulting energy consumption reduction resulted in approximately \$17K per year of cost savings and have a 5-year payback period. B&V performed a side by side pilot system of the new lime slurry system that proved successful for full scale design and implementation.

2) Venue host presentation: Overview of Castaic Lake Water Agency's system (Jason Yim)

Jason provided an overview of the meeting host's service system. CLWA is a State Water Project contractor that serves as a water wholesaler through 26 turnouts to portions of Ventura and Los Angeles counties. Its service area extends over 195 square miles and serves 250,000 people via 4 retail water agencies (Los Angeles County Waterworks District #36, Newhall County Waterworks District, Santa Clarita Water Division, and Valencia Water Company). The system includes 2 surface water treatment plants: Earl Schmidt Filtration Plant at 56 mgd and Rio Vista



Water Treatment Plant, which utilizes ozonation, at 66 mgd. There is also a 3-mgd Saugus Treatment Plant that removes perchlorate from the groundwater using single-pass ion exchange.

With respect to their recycled water system, there is a 2000-gpm recycled water pump station and 1.5 million gallon storage tank at the Valencia Water Reclamation Plant (VWRP) owned and operated by the Santa Clarita Valley Sanitation District's (one of the LA County Sanitation Districts) that have been online since 2003. The recycled water system is being developed in a series of 11 phases in accordance with their recycled water master plan (which is in the process of being updated) to deliver the 1,600 AFY of recycled water from VWRP currently contracted with LACSD. The plan includes future recycled water service from LACSD's Saugus Water Reclamation Plant to Central Park.

3) Legislative/Regulatory Updates (Raymond Jay)

Raymond noted that all bills need to be signed or vetoed by Governor by October 13th. He provided the following key regulations related to recycled water use:

- *AB 803 Water Recycling Act of 2013* – Sponsored by WaterReuse, this bill was sent to the Governor for signature (and was indeed signed by him on October 8). It includes authorization for use of hose bibs in cemeteries for tertiary-treated recycled water.
- *SB 322 Water Recycling* – Sponsored by the San Diego County Water Authority and the City of San Diego. Presses CDPH to move forward more quickly with developing recycling criteria for direct potable reuse (DPR). This bill was approved by the legislature and sent to the Governor for signature or veto (and was also signed into law on October 8).
- *AB 1200 Recycled Water Agricultural Impoundments* – Pilot testing of the water quality impacts of using recycled water to augment agricultural impoundments. Sent to the Governor.
- *AB 145 SWRCB: Drinking Water Program* – The primary driver for this bill that would move the CDPH Drinking Water Programs to the SWRCB is to expedite funding to disadvantaged communities; secondarily, this bill serves to consolidate water system permitting for drinking water, recycled water, wastewater and groundwater into fewer organizations. The water community is largely opposed to this bill as it has a functional working relationship with CDPH.
- *AB 119 – Water Treatment Devices*. Requires testing of point of use devices by ANSI certified independent test. This was signed into law on 9/28/13.
- *2014 Water Bond* – There are two pieces of legislation proposed related to Water Bond– both are approximately \$6.5B: *AB 1331* - specifies use of IRMWPs as primary tool for identifying projects to increase regional self-reliance; *SB 42-*



includes funding for flood management projects. Both bills were held in committee and will be considered next year.

The WaterReuse Association's National Legislative Committee met in September. The committee is developing a 2014 work plan and will finalize in December. Bill Steele head of the US Bureau of Reclamation's Southern CA Area Office presented at this meeting on the Title XVI grant program and noted that this will not receive additional funding unless local representatives are encouraged to "talk it up".

Raymond's presentation can be found on the LA Chapter WaterReuse website.*

4) Los Angeles County Department of Public Health Update (Glenn Van Eekhout)

Glenn presented some case stories and reminders about the importance of early engagement of LA County DPH in project reviews:

- District of the State Architect (re: colleges/schools) – The LA Basin Regional Manager was not aware of LA County DPH inspections/permitting requirements. The DSA inspector looks for structure, fire safety, handicap access, based on plans, but does not review the water system. After-the-fact findings are very hard to address, e.g. pipeline identifiers.
- US Navy Base, San Clemente Island – CDPH notified LA County DPH that the base was seeking approval for dual-plumbed Bachelor Enlisted Quarters buildings.
- Any projects coming up, especially for schools, universities, golf courses, etc., need LA County DPH involvement in the early stages, i.e., prior to construction. LA County DPH can provide their guidelines.
- A dual-plumbed Kaiser building in Lancaster had submitted their plans, but were already under construction. LA County DPH inspectors were able to see pipelines since they had left the walls open for them. They did not require a backup water supply system since there was no cafeteria and it was a 9am-5pm clinic and not a 24-hr/day operation that would have required a backup supply.

5) California State Section Update (Earle Hartling)

Earle reminded the chapter about the following upcoming WaterReuse events:

- Webinar entitled "The Cost of Over-Treating Reclaimed Water: A Triple Bottom Line Evaluation of Potable and Nonpotable Reuse Treatment" – October 10
- Advanced Water Treatment Technologies Seminar – October 18



- Direct Potable Reuse Specialty Conference – November 7-8
- Industrial Reuse Specialty Conference – December 9-10
- CA Section Annual Conference is looking for volunteers for the Awards Committee. The effort requires just a couple of hours in January. Email Monica if interested.
- A CA Section Board meeting is scheduled for November – No agenda yet prepared but contact Monica if there are specific items you would like included.

6) Chapter Updates

- Approval of August Chapter Meeting Notes* – Approved with correction of “THUMS” typo.
- Chapter Newsletter Update (Matt Elsner)* – Seeking consultant or agency spotlight for the next edition. The team is willing to edit existing publication articles or the like.
- Member Survey Results (Judi Miller)* – There were 21 respondents to the SurveyMonkey survey completed 9/18 by the LA Chapter members. There was a good distribution among organization types represented, staff roles within their organizations, and participation in statewide or national WaterReuse committees. Respondents found most favorable the networking opportunities afforded by these meetings, and valued the opportunity to hear the regulatory agency “voice” and some would like to hear more from them. Meeting locations were the primary reason for not attending bimonthly member meetings (and the chapter is striving to diversify meeting space geographically.) There seemed to be greater interest in focusing discussion exclusively around recycled water issues rather than branching out further to encompass other alternative water sources (e.g., rainwater, gray water, ocean desalination).

7) Focus Areas

- Groundwater Replenishment Reuse Regulation (Judi Miller)* - The draft version of the regulation dated June 26, 2013, is available on the CDPH website: <http://www.cdph.ca.gov/healthinfo/environhealth/water/Pages/Waterrecycling.aspx>. The formal rulemaking process is expected to be initiated in early 2014.

Margie Nellor and Monica Gasca cross-checked the latest draft regulation against the previous regulation and the subsequent WaterReuse Association comment letter or new concerns that have been identified. Some key issues that remain with this latest draft include:

- Secondary boundary representing a “zone of potential controlled potable well construction” definition still unclear
- Source control requirements tied to the wastewater treatment plant’s NPDES permit rather than the GRRP permit
- Rounding of the log reduction credit for pathogens from one to two significant figures
- Added tracer only option offered for validating retention time (i.e., not intrinsic tracer)
- Secondary MCL requirements for recycled water and stormwater
- Notification levels remains as regulatory parameter
- Action trigger timeframe for nitrogen compound exceedance
- Reporting deadlines

b. *Funding Opportunities (John Robinson)* – Below is a bulleted synopsis of the funding opportunities John highlighted:

- Metropolitan Water District of Southern California (Met):
 - \$3.2M of projects approved under the Foundational Action Funding Program: 7 for recycled water, 2 for desalination, 2 for groundwater
 - Met has Innovative Conservation Program funding \$50K for cons. & RW projects – due Tuesday, October 15
 - Met Local Resources Program (LRP) is still seeking funding applications
 - Met Water Savings Initiative Program – focused towards private industry, conservation, large agriculture
 - All above programs can be found at www.bewaterwise.com
- State Water Resources Control Board (SWRCB):
 - Non-point Source 319 grant opportunity using an 8-page “reduced package” – due this Thursday, October 17
 - All funding applications under FFAST
 - Water Recycling Funding Program – Prop 13 (e.g., IRWMP) – up to \$75K available with a 50/50 match
 - All SWRCB grant and loan programs is through the Division of Financial Assistance (DFA) and can be found at the following web site: http://www.swrcb.ca.gov/water_issues/programs/grants_loans/
- CA Department of Water Resources (DWR):
 - Integrated Regional Water Management (IRWM) Grants, Round 2, Prop 84 funded
 - LACFCD - \$23.4M applications, 100% funded
 - Ventura County - \$7M application, 100% funded
 - IRWM Round 3 Implementation Grant (Pending Appropriation) no earlier than FY 14-15 schedule is on DWR website

- 2014 Desalination Grant Funding (Round 3) Proposed Solicitation Package (PSP) to be released on November 27th and proposals are due on January 16, 2014.
- All DWR grants and loan programs goes through the Financial Division and can be found at the following web site:
<http://www.water.ca.gov/waterusefficiency/finance/>
- U.S. Bureau of Reclamation (USBR):
 - WaterSMART grant funding will be released in October 2013 for FY 14/15.
 - All USBOR WaterSMART grand funding information can be found at the following web site: <http://www.usbr.gov/WaterSMART/weeg/>
 - USBR indicated that their Title XVI is not be lobbied by the water agencies in the southwest and is in jeopardy of not being funding in the future by the Federal government.

8) Other Topics

a. *Industrial Use Committee (Elise Goldman)*

The Committee met in Denver and formulated a new membership dues structure, and a new category for industrial/commercial use based on annual wastewater feed rather than the number of users. Elise can provide additional details.

The Industrial Use Specialty Conference will be held in Long Beach on December 9-10. It will focus on high level sustainability and technically detailed presentations. It was suggested that industrial users be invited and tickets purchase for them to attend.

b. *Firefighting with Recycled Water and Revision to LACRWAC Recycled Water Users Manual (Earle Hartling) - No updates.*

9) Membership Roundtable - Projects, Regulatory Issues, Financing, etc. (Kraig Erickson)

Kraig discussed the National WaterReuse Conference that was held in Denver in September with approximately 440 attendees. It included a tour of the zoo that uses recycled water in open enclosures. Five members from the LA Chapter attended the conference. Florida is using recycled water with hose bibs at residential sites. The City of Meadow Place, TX developed a recycled water project in 18 months. from concept to startup using a prepackaged tertiary plant and pump station. Three people on staff did the whole thing (including construction).

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10) Next Meetings

- December 3, 2013 – Host: Glendale Water and Power; Sponsor: Carollo Engineers
- February 11, 2014 – Host: Las Virgenes MWD; Sponsor: TBD

Los Angeles Chapter Officers for 2013

Raymond Jay, President	213-217-5777	rjay@mwdh2o.com
Kraig Erickson, Vice President	805-550-5232	kerickson@rmcwater.com
Judi Miller, Secretary/Treasurer	213-228-8236	judi.miller@ch2m.com
Monica Gasca, Chapter Trustee	562-908-4288 x2838	mgasca@lacs.org
John Robinson, Past-President	626-375-9389	jrobinson@johnrobinsonconsulting.com

If you would like to receive future Los Angeles Chapter meeting announcements or be removed from the Chapter Roster please contact Judi Miller.

* The presentations from this October, 2013 meeting can be found at:
<http://www.watereuse.org/sections/california/losangeles/meetings>

Meeting Attendees

Member	Organization
Andrew Lazenby	B&V
Asif Sheikh	Burbank Water and Power
Charles Gruel	Los Angeles Dept. of Water and Power
Cris Perez	Valencia Water Company
Donald Cresse	Los Angeles Dept. of Water and Power
Dusty Moisis	Rowland Water District
Earle Hartling	Sanitation Districts of Los Angeles County
Elise Goldman	West Basin Municipal Water District
Elizabeth Sobczak	Castaic Lake Water Agency
Eric Porkert	Cannon
Gary Roephe	Cannon
Glenn Van Eekhout	LA County Dept. of Public Health
Jason Yim	Castaic Lake Water Agency
Jim Leserman	Castaic Lake Water Agency
Jocelyn Carrillo	Los Angeles/Bureau of Sanitation
Joe Walters	West Basin Municipal Water District
Joe Yersky	Walnut Valley Water District
John Robinson	John Robinson Consulting
Judi Miller	CH2M HILL
Julia Aranda	MNS Engineers
Kraig Erickson	RMC Water and Environment
Leslie Moulton	ESA
Luis Macia	Los Angeles Dept. of Water and Power

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Maria Alvarez	AECOM
Matt Bequette	Los Angeles/Bureau of Sanitation
Matt Elsner	Burbank Water and Power
Raymond Jay	Metropolitan Water District of So. Calif.
Robert Bueras	LA County Dept. of Public Health
Seth Carr	Los Angeles/Bureau of Sanitation
Shadi Bader	Burbank Water and Power
Sharona Sokolow	UCLA
Sunny Wang	B&V
Tom Monk	Walnut Valley Water District

TOTAL ATTENDEES: 33