

Location: Long Beach Utilities Department Administration Building
Address: 1800 E. Wardlow Rd
Long Beach, CA 90807
Purpose: Bi-Monthly Meeting
Date and Time: February 13, 2024 from 11:30 a.m. – 1:00 p.m.
Distribution: Los Angeles WaterReuse Association Chapter Members and Supporters

Below is a summary of the highlight from the February 2024 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: Planning for Groundwater Augmentation using Pure Water** (*Nikolas Baykal, Long Beach Utilities*)

Long Beach Utilities has an upcoming groundwater augmentation study. The project is split into three larger tasks that will all tie in together. This is a joint effort between the Long Beach Utilities Department and the Water Replenishment District. The first task, the groundwater augmentation study, includes a Central Basin groundwater model update where the consultant will review and calibrate the current USGS model and identify constraints to injection well siting within both the Central and West Coast Basin. Another aspect is the groundwater augmentation program development to determine optimal sites for siting injection and extraction wells. The agency will also identify permitting requirements and determine groundwater quality impacts. The second larger task is Well Siting. Within the Central Basin, they intend to identify 15 locations for production wells and identify injection well sites. The goal is to inject 4000 acre-ft per year. Within the West Coast Basin, they will identify 10 locations for production wells as well as potential injection well sites. The last task is the existing well collection main assessment and includes updating their hydraulic model for their well collection system. All of Long Beach's wells tie into a collection system that goes to their treatment plant where the water is treated before going to the distribution system. Long Beach treats all its water centrally. It is important to identify any constraints in their current collection system when trying to identify locations for new production wells. There will also be a well collection system condition assessment which includes desktop analysis and a condition assessment plan. Long Beach Utilities will also develop a phased capital improvement program as there will need to be updates to accommodate any future production wells.

The next slide shows the MWD proposed pure water alignment. The agency is in contact with MWD to source water from them. Reach 2 shows the conveyance through the cities of Long Beach and where it needs to tie into to receive advance treated recycled water.

The Water Resources Plan identified new sources to offset imported water use. Next, the Optimization Study built on the Water Resources Plan and identified new potable water infrastructure that Long Beach Utilities would need. The Groundwater Resilience Program came from the Optimization Study and now they are conducting the Groundwater Augmentation Study. Currently replenishment occurs in the foothills, so Long Beach Utilities are last in line when it comes to pulling water from the Central Basin. By looking at new injection capabilities, they are looking into pumping their full allocation sustainably and it would be ideal to offset the significant

allocation by pumping in advance recycled water for the longevity and sustainability of the Central Basin. Lastly, would be the Recycled Groundwater Recharge Program

Some goals they have for this project:

- Update and calibrate Central Basin groundwater model
 - o Should benefit all other agencies within Central Basin
- Identify injection capabilities within service area of Central and West Coast Basins
- Identify potential well sites within service area of Central and West Coast Basins
- Update hydraulic model of well collection main system
- Create a road map for future CIPs
- Maximize use of groundwater allocation

2. Sponsor presentation: Supply Chain Solutions (*Steven Friedman, HDR*)

This presentation is a shortened version of the one presented at the 2022 WaterReuse California Annual Conference.

COVID-19 heightened supply chain issues. People were not getting to the factories so things could not get produced. Even now, the labor force is not back and there are still ships that get trapped in ports. The Russia/Ukraine war is still going on and they are a major supply of some of the rarer metals as well as stainless steel. High material demands, especially in California, also exacerbate these problems which all resulted in long delivery times on everything. Typical solutions include creative solutions implemented by consultants, or the owner can furnish the equipment as early as possible before the contractor comes on board or the design is done, but this can have many risks. There is also collaborative delivery with early procurement where the contractor gets on board early before the owner to avoid owner procurement risks, but this comes with other risks.

Some examples of projects with creative solutions implemented by HDR include the Eastern Municipal Water District (EMWD) San Jacinto Raw Water Conveyance Facility Aquifer Storage and Recovery (ASR), which is wrapping up in the next couple of months, the Poseidon Dilution Pump Station for ocean desalination, and the Metropolitan Water District (MWD) Foothill Pump Station for drought resiliency. These projects all had major schedule drivers, despite during COVID-19, so they needed equipment procured in a timely manner.

Some creative solutions included deferring key equipment to later construction phases, replacing long lead items with something available now, and/or maximizing use of existing facilities as much as possible. Solutions are different for every project.

For the EMWD project, HDR looked at the hydraulic profile and found that using an existing pump station would get EMWD to their targets instead of building something new, deferring the new pump station. For the MWD pump project, MWD needed valves which were 1-2 years out, HDR came up with a bulkhead solution where everything is done except for the valve which is replaced by a bulkhead and the spool piece can be rolled out for open flow, and the spool piece can be replaced with the valve when it is obtained. The Poseidon Dilution Pump Station maximized existing facilities by reusing a disposed and buried wet well which saved on money and time.

Lastly, collaborative delivery simplifies early procurement as it gets the contractor on board so they can do the procurement.

3. Water Recycling Legislative/Regulatory Updates (*Rosario Cortes, Rafael Villegas*)

- Budget deficit looks to be \$38-\$68 billion
 - Affects WaterReuse's water recycling funding projects
 - Trying to quantify how many projects
 - Comment letter
- Senator Mike McGuire takes over as Pro Tempore in California State Senate
 - One of his big priorities is climate change
 - Will assist with budget situation
 - Two vehicles in Senate for a climate bond
 - Waiting to see which way they will go
- California DPR Regulations approved on December 19, 2023
 - Media interest and international interest
 - Waiting for OAL review, expecting enforceable legislation in summer 2024
- Brenley McKenna will replace Jennifer West starting April 1, 2024
- 2024 WaterReuse California Conference
 - April 15th - Early Bird Registration to open
 - September 15-17 in Garden Grove
 - Call for Abstracts deadline
 - Record numbers of attendance
- Membership
 - Please pay your dues

4. Regulatory Agency Spotlight (*Rebecca Christmann, Recycled Water Unit, Division of Drinking Water*)

- Overview of Division of Drinking Water (DDW) – chart in slides
 - One of five divisions under the State Water Resources Control Board
 - Main function is to regulate public drinking water systems
 - 5 branches of DDW:
 - Field Operation Branch – works with public water systems to ensure compliance with federal and state safe drinking water acts
 - Divided into Northern, Central, and Southern California sections
 - i. Further divided into two sections
 - 1. Those sections are comprised of 28 district offices, including 13 guild offices

- Resiliency and Data Branch
 - Safer Drinking Water Section – works to ensure all Californians have safe, affordable, and accessible water
 - Quality Assurance Section – works to ensure validity and integrity of the data submitted to the Drinking Water Management System
- Program Management Section
 - Technical Operations Section
 - i. Consists of 2 main units and subject matter experts
 1. Recycled Water Unit
 - a. 7 engineers under Senior WRC Engineer Ginachi Amah
 2. Regulatory Development Unit
 - a. Works on MCL regulations, Lead Copper Rule updates, etc.
 - ELAP Section
- DPR adopted by SWRCB on December 19, 2023
 - DDW is preparing the rulemaking package that goes to OAL
- Cross-Connection Control Policy Handbook (CCCPH)
 - Adopted December 19, 2023
 - Effective July 1, 2024
 - Each public water system must submit a PWS Cross-Connection Control Plan by July 1, 2025
- Regulatory Updates
 - Proposed Hexavalent Chromium MCL of 10 ppb (0.01 mg/L)
 - February 19, 2024 at 12:00 pm – Public comment period ends, due to extra documents
 - Water Recycling Criteria Update (Title 22, Division 4, Chapter 3)

5. CA State Section Update (*Rafael Villegas*)

- Last WRCA Board Meeting: February 9, 2024
- Next WRCA Board Meeting: May 3, 2024
- Finance Report – 2023 Finances to Date:
 - Revenues came in higher than budgeted
 - Expenditures higher than projected, but still less than overall revenues
 - Reserves rolled over into T-Bills

- Letter of Agreement for Jennifer West Consulting Services
 - Scope of Services to WRCA:
 - Provide advice and technical information on recycled water regulatory and legislative issues
 - As necessary provide feedback on memos and newsletter articles
 - Provide meeting coverage for regulatory or other California specific issues as requested by the Interim Managing Director
 - Assist the Interim Managing Director and newly placed Director on matters impacting WRCA operations, advocacy, and programming
- Appointment of WRCA Managing Director
 - Recommended Candidate – Brenley McKenna
 - Experience:
 - Chief of Subscriber Services: The Water Research Foundation in Denver, CO
 - Served as Section President for 2016-2017 term
 - Active in WaterReuse since 2013
 - Employment Timing
 - Tentative Start Date: April 1, 2024
- Legislative and Regulatory Committee
 - State Budget and Climate Update Bond Status
 - California budget is in deficit
 - Recycled Water-Potable Reuse “Conservation is a way of Life”
 - WRCA attended the California way of life Workgroup Kickoff meeting
 - Major Provisions of California’s DPR Regulations
 - New organizational structure
 - Highest level of Operating Certifications
 - Enhanced source control requirements
 - Rigorous chemical and pathogen controls
 - Recycled Water Funding Opportunities
 - February 2024 WaterReuse Opportunities distributed to LA Chapter
 - Comment Letter DFA: Clean Water State Revolving Fund Policy Amendments
 - Comment Letter MWD: Achievements in Conservation, Recycling, and Groundwater Recharge
- Reimagining Water Together
 - Update from March 10-13, 2024 to March 11-14, 2024

6. Chapter Updates (*Jennifer Jacobus*)

- Communications Chair: Oliver Slosser oslosser@lvmwd.org
- Rising Professionals Committee Chair: Seto Cherchain Scherchian@BrwnCald.com
- Technical Topics Chair: Alex Franchi alex.franchi@aecom.com
- Meeting Summaries – October 2023
 - Annie Chen and Karina Gonzalez (LA Sanitation and Environment)
- Volunteer Opportunity
 - Leg/Reg Updates
 - Technical Topics

7. Membership Roundtable (*Alex Waite*)

- Tours Suggestions
 - Glendale Water Reclamation Plant
 - Aquariums
 - Laboratories
 - Please contact Setrag Cherchian (scherchian@brwncald.com) if interested to host a tour
- Technical Topic Suggestions
 - Advanced Treatment Facility projects, PFAS, new regulations, climate resiliency, new/emerging technologies
 - Complying with IPR/DPR regulations
 - Digital application in Water Reuse
 - DPR related effort
 - IPR/DPR
 - LA BOE stormwater reuse projects

8. Next Meetings

- April, 2024 – Host: West Basin MWD
- June 11, 2024 – Host: LA Sanitation and Environment
- August, 2024 – Host: Glendale Water and Power
- October, 2024 – Possible joint meeting with OC Chapter
- December, 2024 – Election Meeting, looking for Host

9. Adjournment 1:00 p.m.



Tuesday, February 23, 2024
Long Beach Utilities

LAST NAME	FIRST NAME	ORGANIZATION	INITIALS	EMAIL ADDRESS	Add to Chapter Mailing List?
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Gauthier	Curtis				YES