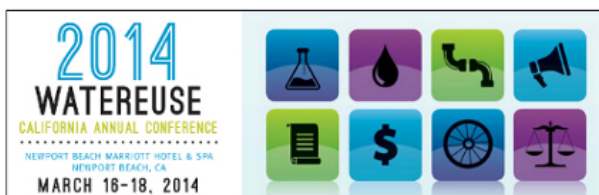


Our Mission

The San Diego Chapter of the WaterReuse Association provides a forum for the exchange of information to promote the beneficial use of recycled water in the San Diego region.

Event Updates

2014 WaterReuse California Annual Conference



The WaterReuse California Annual Conference is the premier statewide conference devoted to sustaining supplies through water recycling and desalination. The conference is designed for individuals, organizations, and agencies that are associated with or interested in the design, management, operation, and use of water recycling and desalination facilities and projects in California. Join WaterReuse March 16-18, 2014 at the Newport Beach Marriott in Newport, Beach, CA for a great conference!

The conference will feature technical presentations, educational workshops, a technical tour, receptions, an awards luncheon, the annual Gordon Cologne Breakfast, a plenary session about direct potable reuse, and the popular exhibition component.

March 16-18, 2014
Newport Beach Marriott Hotel
Newport Beach, CA
For more information on workshop agenda and to register for the event go to <https://www.watereuse.org/conferences/california/14>

18th Annual Water Reuse & Desalination Research Conference



Join WaterReuse for the 18th Annual Water Reuse & Desalination Research Conference on May 19-20, 2014 at the Westin Las Vegas! The WaterReuse Research Foundation's Annual Conference brings together leading researchers to present key findings and practical solutions. This conference provides a unique forum for water reuse and desalination water professionals to network with researchers and discuss current and future research needs, trends, and solutions to water scarcity issues.

You will not want to miss this opportunity to learn about new developments and trends emerging from current and ongoing research.

May 19-20, 2014
Westin Las Vegas
Las Vegas, NV

For more information on workshop agenda and to register for event go to <https://www.watereuse.org/foundation/research-conference-18>

Meeting Announcements

NEXT MEETING:
April 9, 2014 9:00am-11:00am
Location: TBD

JULY MEETING:
July 16, 2014
Location: TBD

OCTOBER MEETING:
October 15, 2014
Location: TBD

Researching Options for DPR

The City of San Diego is undertaking groundbreaking research with assistance from the WasteReuse Research Foundation's Direct Potable Reuse (DPR) Initiative. Since no regulations currently exist for DPR in California, the initiative aims to advance the development of DPR in California and aid in fulfilling the California Department of Public Health's (CDPH) research and data needs.

Senate Bill 918 directs the CDPH to form an expert panel to help investigate the feasibility of developing uniform water recycling criteria for DPR. A final report on that investigation is due to the California Legislature by December 31, 2016. CDPH may consider the ongoing studies from the DPR Initiative as part of its investigation. From August 2011 to July 2012, the City tested water purification technologies at its Advanced Water Purification (AWP) Facility by purifying one million gallons a day of recycled water using microfiltration/ultrafiltration, reverse osmosis, and advanced oxidation with ultraviolet light and hydrogen peroxide. As a result of this testing, the City found that water purification is a feasible option for supplementing San Diego's drinking water supplies.

Operation of the City's existing AWP Facility continues as additional research is done to help define guidelines for DPR. This additional research is grant funded by state propositions 50 and 84. San Diego's AWP Facility is ideal for these studies because it is housed with full-scale components that have proven success in previous studies. Also, the water produced during the testing is added to the existing recycled water distribution system.

The primary health concern of potable reuse is the risk of pathogens remaining in the purified water. To that end, a core concept of potable reuse regulations is protection of public health through a multiple-barrier system. In the case of DPR, the absence of an environmental buffer could be compensated through the following:

- Additional treatment process that increases overall system redundancy and reliability
- Enhanced water quality monitoring for each treatment process
- Failsafe readiness



Multiple research studies are being conducted at the AWP Facility to evaluate the potential options that could compensate for the absence of an environmental buffer in DPR. Biologically activated carbon filters and ozonation equipment are being installed in January. These additional treatment barriers are being tested for their ability to provide public health protection equal to or greater than the retention of purified water in the San Vicente Reservoir.



To learn more about the City's water purification efforts, visit www.purewatersd.org or tour the AWP Facility by registering online at www.purewatersd.org/tours.shtml.

Danielle Thorsen

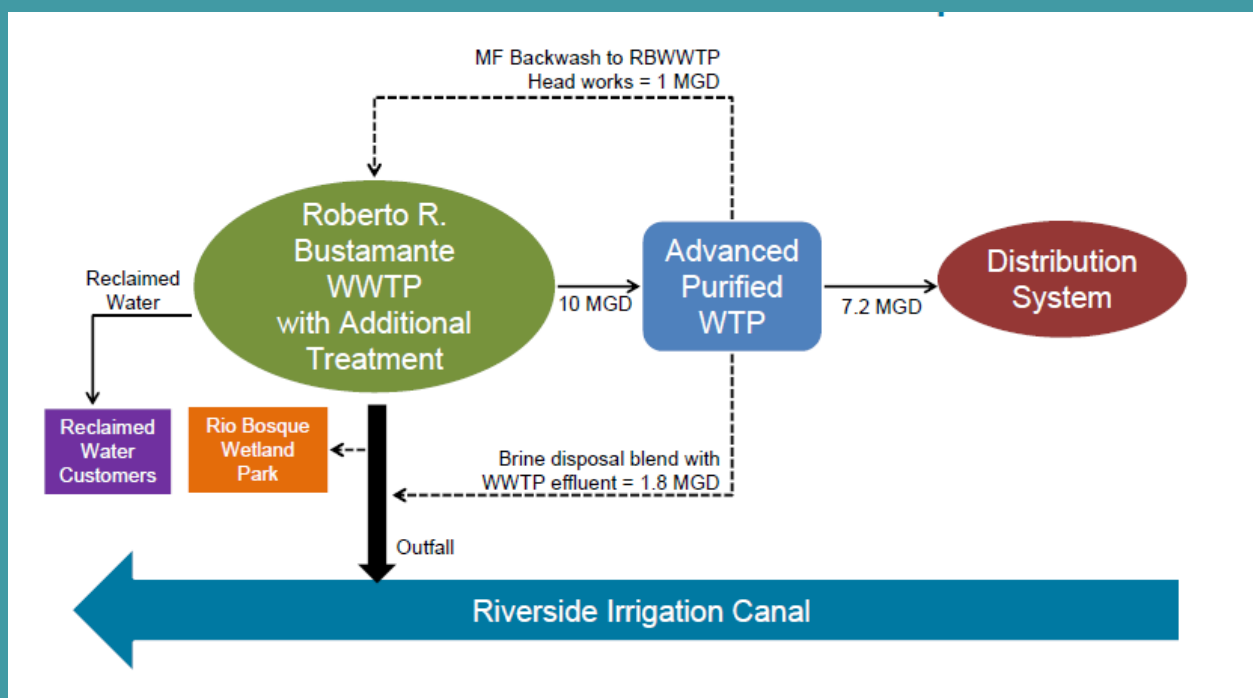
Community Outreach Specialist
San Diego Public Utilities Department



Direct Potable Reuse Project Underway in El Paso

Historically, the City of El Paso, TX has relied on a combination of groundwater and surface water from the Rio Grande to meet its potable demand. One notable component of this portfolio is the 27.5 MGD Kay Bailey Hutchison Desalination Plant, currently the world's largest inland desalination facility. However, because prolonged conditions of extreme drought continue to limit available water from these traditional sources, the City is committed to increasing the use of more local and renewable supplies. Consequently, El Paso Water Utilities (EPWU) has engaged ARCADIS to develop a 10 MGD Advanced Purified Water Treatment Plant (APWTP) for recycling treated wastewater via direct potable reuse (DPR).

Due to unavailable surface water and poor quality groundwater, EPWU is unable to utilize an environmental buffer in conjunction with reuse. Moreover, unlike many other planned DPR projects in the US, treated water from the APWTP would be blended directly into the potable water distribution system. A schematic of concept is shown in the figure. Upon completion, the EPWU DPR project will be only the second of its kind worldwide, after the one in Windhoek, Namibia commissioned over a half century ago in 1958.



The first phase of the project is currently underway and involves conceptual design, to be followed by pilot testing, detailed design, and construction. EPWU and ARCADIS are working closely with state regulators at the Texas Commission on Environmental Quality (TCEQ) to ensure that the DPR project provides EPWU customers with a reliable, high quality source of potable water with appropriate safeguards. This pioneering project will not only provide a more sustainable source of water supply for the City of El Paso, but is also expected to help pave the way for similar DPR efforts around the country.

Brent Alpsach
Senior Environmental Engineer
Arcadis

Recycled Water Site Supervisor Certification Training

The City of San Diego • Public Utilities Department

Class Information:

- Thurs. Jan. 16, 2014**
- Thurs. Feb. 27, 2014**
- Thurs. Apr. 10, 2014**
- Thurs. May 22, 2014**
- Thurs. July 10, 2014**
- Thurs. Aug. 21, 2014**
- Thurs. Oct. 2, 2014**
- Thurs. Nov. 20, 2014**

8:00 a.m. – 12:00 p.m.
 City of San Diego
 Public Utilities Dept.
 Training Center
 5510 Kiowa Drive
 La Mesa, CA 91942

Cost:

\$60 per person
 No on-site registration
 No refunds
 Payable by check only
 Checks payable to:
 "City Treasurer"

Enrollment deadline:

Ten days prior to start of class or when class limit is reached

Send registration form and payment to:

RWSS Coordinator
 Public Utilities Department
 5510 Kiowa Drive
 La Mesa CA 91942
 MS 43A



This half-day course is designed to provide recycled water users in the state of California with the necessary information required to become fluent in the operational practices of recycled water. The \$60 registration fee includes learning materials and a supervisor identification card. Course objectives include:

- Roles and responsibilities of a Site Supervisor at a recycled water use site.
- Identifying potential and direct cross-connections and learning appropriate preventative measures.
- Practicing appropriate techniques for the safe and efficient use of recycled water.

Testing materials will be available in Spanish.



The Public Utilities Department is authorized by IACET to offer .4 CEUs for this program.

Recycled Water Site Supervisor Registration Form

First Name _____	Email _____
Last Name (will appear on the certification card) _____	Class Date Requested – First Choice _____
Organization/Business Name _____	Class Date Requested – Second Choice _____
Street Address _____	<input type="checkbox"/> CEUs Requested
City, State, Zip _____	For more information, please contact: Desmond Stecher 619.668.2090 dstecher@sandiego.gov
Phone _____	

Printed on recycled paper. This information is available in alternative formats upon request.

Public Information Office October 2013

GOT NEWS??

For more information on submitting articles please email Sarp Sekeroglu at ssekeroglu@rbf.com



For more information about our local section please visit
www.watereuse.org/sections/California/sandiego

Our Members

Membership forms are available at www.watereuse.org/sections/california/sandiego/membership

ARCADIS—Malcom Pirnie	Katz & Associates
Atkins (formerly PBS&J)	Mellano & Company
Bailey Environmental Associates, LLC	Olivenhain Municipal Water District
Black & Veatch Corporation	Otay Water District
Brown & Caldwell	Padre Dam Municipal Water District
Carollo Engineers	RBF Consulting, A Baker Company
CDM Smith	Rick Engineering Company
CH2M Hill	Rincon del Diablo Municipal Water District
Chambers Group	RMC Water & Environment
City of Encinitas	San Diego County Water Authority
City of Escondido	San Diego Golf Course Superintendent's Association
City of Poway	San Dieguito Water District
City of San Diego	San Elijo Joint Powers Authority
City of Vista	Santa Fe Irrigation District
Coombs-Hopkins	Separation Processes, Inc.
Dudek	Spears Manufacturing Co.
D N Tanks formerly DYK Incorporated	Surfrider Foundation
Fallbrook Public Utility District	TRG & Associates
GHD	Trussell Technologies
Habitat Restoration Sciences	Vallecitos Water District
Helix Water District	Valley Center Municipal Water District
J-Power USA	Water Conservation Technology International
Infrastructure Engineering Corporation	
KEH & Associates	
Kennedy/Jenks Consultants	

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Chris Trees, PE	<i>Treasurer</i>	<i>(760) 753-6203</i>	Sarp Sekeroglu, PE	<i>Editor-in-Chief of Chapter Newsletter</i>	<i>(858) 614-5004</i>
Mike Wykosky, PE	<i>Secretary</i>	<i>(619) 291-0707</i>			
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