**Meeting Agenda** February 9, 2021 11:30 a.m. – 1:00 p.m.



Location: Zoom registration link

https://us02web.zoom.us/meeting/register/tZYpceCqqz4tEtNiOeRgAqBZza hclLDEx10

The mission of Los Angeles Chapter of the WateReuse Association is to increase the amount and safe beneficial uses of recycled water in and around Los Angeles County. Its objectives shall be to promote water reclamation and recycling as a sustainable supplemental source of water for the state; to work for the adoption of legislation and regulations that allow the safe use of recycled water; to facilitate the development of technology aimed at improving water recycling; to promote legislation that would increase funding for water recycling projects; to provide mutual assistance and support between and among Chapter members involved with water recycling projects; and to increase public awareness and understanding of related water problems and solutions.

- 1. Host presentation: MWD Regional Recycled Water Program (Raymond Jay/Metropolitan Water District of Southern California)
- 2. Technical Topic: Update on PFAS Occurrence and Treatment Evaluation (Nicole Blute/Hazen)
- 3. Water Recycling Legislative/Regulatory Updates (Raymond Jay)
- 4. Regulatory Agency Update
  - a. Los Angeles Regional Water Quality Control Board (Steven Webb)
  - b. LA County Department of Public Health (Glenn Van Eekhout)
  - c. SWRCB Division of Drinking Water (Mir Ali)
- 5. California State Section Update (Rafael Villegas)
- 6. Chapter Updates (Judi Miller)
  - a. Approval of December, 2020 Member Meeting Summary
  - b. Young Member Committee Update (Alex Waite)
- 7. Membership Roundtable (Jared Lee)
- 8. Next Meetings
  - April 13, 2021
  - June 8, 2021
- 9. Adjournment ...... 1:00 p.m.

#### Los Angeles Chapter Officers for 2019/2021

Fred Gerringer, President	626-319-1107	fgerringer@hazenandsawyer.com
Jared Lee, Vice President	626-379-8443	JLee@burbankca.gov
Judi Miller, Secretary/Treasurer	213-228-8236	judi.miller@jacobs.com
Rafael Villegas, Chapter Trustee	213-367-1289	rafael.villegas@ladwp.com
Raymond Jay, Past-President	213-217-5777	rjay@mwdh2o.com



# Metropolitan's Regional Recycled Water Program

A NEW source of water for Southern California

Raymond Jay – Metropolitan Water District of Southern California

WateReuse Los Angeles Chapter Meeting February 9, 2021

## Agenda

- Metropolitan Overview
- RRWP Background
- Agency Coordination
- Potential Funding
- Schedule
- Questions and Discussion



## METROPOLITAN WATER DISTRICT



- of water
- 6 counties/ 26 member agencies
- 19 million people / 5,200 square miles

 Imports water from Northern Sierra and the Colorado River, invests in local projects

SAN DIEGO COUNTY

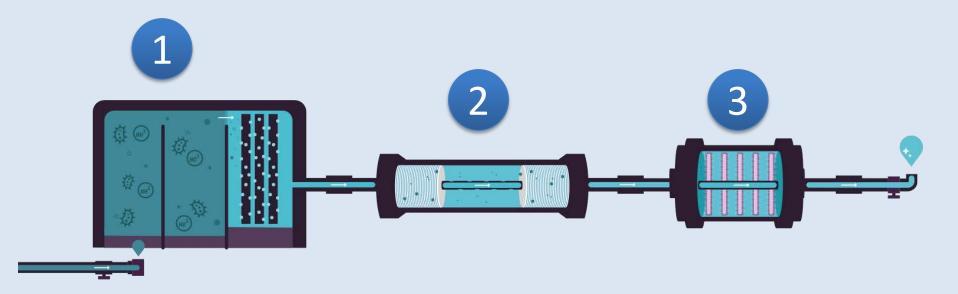
### REGIONAL RECYCLED WATER PROGRAM

- Development of a new regional water source
  - Up to 150 mgd (168,000
     AFY) of purified recycled water
  - Replenish groundwater basins
  - Provide water to industries
  - Connect to Metropolitan's water treatment plants





## **Proposed Treatment Process**



## **Membrane Bioreactors**

Treated primary or secondary effluent
Microorganisms remove ammonia
Membranes filter tiny particles

#### **Reverse Osmosis**

Pressurized membranes further remove microscopic materials, eliminating more than 99% of all impurities

## **Ultraviolet/Advanced Oxidation Process**

Ultraviolet light/ oxidant destroy any remaining viruses and trace chemical compounds.



## Program Benefits



#### Earthquake

Prepares the
Southland for the
event of a
catastrophic
earthquake by
increasing local
water supplies.



#### Drought

Produces a droughtproof source of water, readily available rain or shine.



#### Groundwater

Replenishes groundwater basins, which provide 30% of Southern CA's water supply and have seen levels drop to historic lows in recent years.



#### **Economy**

Helps meet needs of region's growing economy and population at a cost comparable to other local water resources.



#### Wastewater

Uses region's largest untapped source of wastewater, currently sent to the ocean.



## RRWP Role in Regional Planning

## Integrated resources plan

25-year plan to ensure reliability

Evolves over time

2020 IRP will include scenario planning

## Changed conditions in past 5 years

Declining demand

Unmet local resource goal

Climate change

Constituents of concern

#### **RRWP**

Increases local supplies

Supports GW & DPR

Has regional benefits

Has stakeholder support

## Studies and Reports

- Pilot Scale Studies (2012)
- Feasibility Study Report (2016)
- Conceptual Planning Studies Report (2019)
- Demonstration Plant (2019)
  - Tertiary MBR Testing (2020)
  - Secondary MBR Testing (2021)
  - Proposed DPR Testing (2023-2024)
- Environmental Planning Phase (current)







**MBR** 

Reverse Osmosis

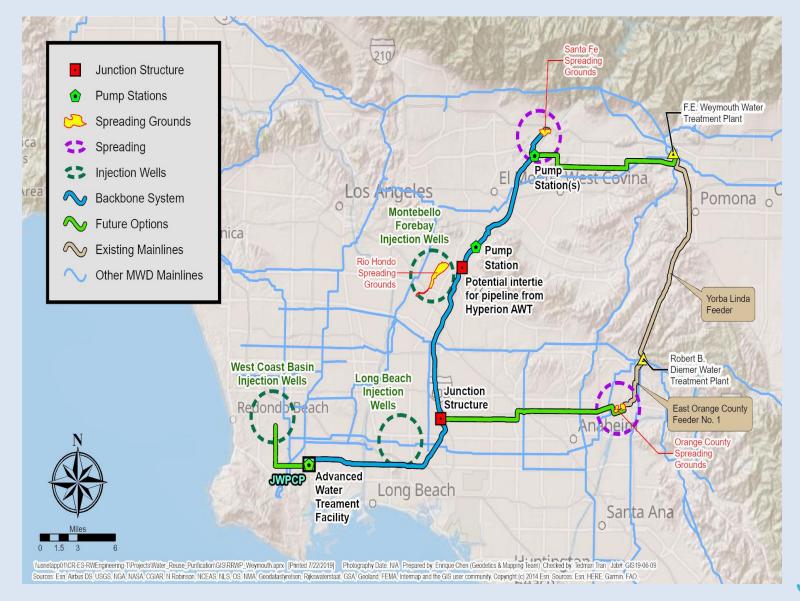
### LOS ANGELES COUNTY SANITATION DISTRICTS



## Joint Water Pollution Control Plant



## Conceptual Facilities



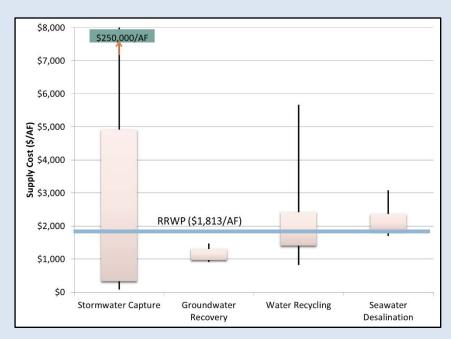


## Program Costs & Alternatives

#### **Program Costs**

ltem	Phase 1 Backbone (2018 Dollars)	Full Program (2018 Dollars)
Production Capacity (mgd)	100	150
Capital Program Cost	\$2.6 billion	\$3.4 billion
Annual O&M Cost (\$/year)	\$69 million	129 million
Program Unit Cost of Yield (\$/AF)	\$1,813	\$1,826
Capital Unit Cost (\$/AF)	\$1,181	\$1,054
O&M Unit Cost (\$/AF)	\$631	\$772

#### **Alternatives**





## How to Pay for the Program





## **Agency Coordination**

- Collaboration partners
- Letters of Intent (LOI)
- Joint technical studies
- Future purified water purchase
- Funding partners



















## Collaboration and Funding More than \$ 2 million in Grants Awarded to Date

Program	Amount
USBR Title XVI Reuse Research Grant	<ul> <li>Awarded \$750,000 to study MBR pathogen removal</li> </ul>
California Water Recycling Funding Program (WRFP) State Prop 1	<ul> <li>Awarded \$1M for Demonstration Plant</li> <li>Awarded \$300,000 for four groundwater basin planning studies</li> </ul>

## Collaboration and Funding Potential Future Grants and Loans

Program	Type	Amount
USBR Title XVI	Grant	Up to \$20M for construction
California Water Recycling Funding Program (WRFP) State Prop 1 /68	Grant	Up to \$5M for construction
USEPA Water Infrastructure Finance and Innovation Act (WIFIA) program	Loan	Up to 49% of eligible costs
California Clean Water State Revolving Fund (CWSRF)	Loan	Up to 50% of eligible costs



## Recent Actions November 2020 Board Actions

#### Board Action 1

 Authorize staff to commence Environmental Planning phase for RRWP

#### **Board Action 2**

- Amend existing LACSD Agreement
- Provide support for the RRWP Environmental Planning phase

#### **Board Action 3**

- Adopt SNWA Agreement
- Provide support for RRWP Environmental Planning phase

#### **Board Action 4**

- Amend existing NWRI Agreement
- Provide continued support for Demo Plant testing program



## **Environmental Planning Phase**

- Proposed Scope of Work
  - Program Environmental Impact Report
  - Engineering & Technical Support Studies
    - Treatment
    - Conveyance
  - Public Outreach support
- \$30 million included in approved 2020/21 and 2021/2022 biennial O&M budget
- Potential contributions from Program partners



## Environmental Planning/Permitting

Division of Drinking Water

Regional Water Quality Control Boards

Other State and Local Agencies

US Army Corps of Engineers

US Fish & Wildlife CA Fish & Wildlife

Other Federal Agencies

CEQA/NEPA

Los Angeles County Flood Control District Air Quality
Right-of-Way
Safety, Other



## Los Angeles County Sanitation Districts

- 2015 Agreement for demonstration plant and term sheet for future full-scale projects
- Amendment added Environmental phase work
- Scope will cover the following:
  - CEQA documentation
  - Engineering assistance
  - Associated technical studies
  - Public outreach
- Potential LACSD financial contribution \$5M \$6M
- FORCO remediation up to \$50 million

## Southern Nevada Water Authority

- Letter of Intent approved in March 2020
  - Work together to implement the RRWP
  - Provide resources to assist with the planning, design, and construction
  - Discuss exchanges of water volumes
  - Non-binding
- Agreement approved in November 2020
  - Funding contribution for environmental phase
  - Partnership and collaboration for environmental phase work
  - Additional terms to be considered



### National Water Research Institute

- Independent Scientific Advisory Panel (ISAP) facilitation
  - Supports ongoing work at Demonstration Plant
- Agreement signed in 2018
  - Initial Budget: \$245,000
- Approved amendment in November 2020
  - Additional workshops and reports
  - \$200,000 already included in O&M budget
  - Time extension through June of 2022

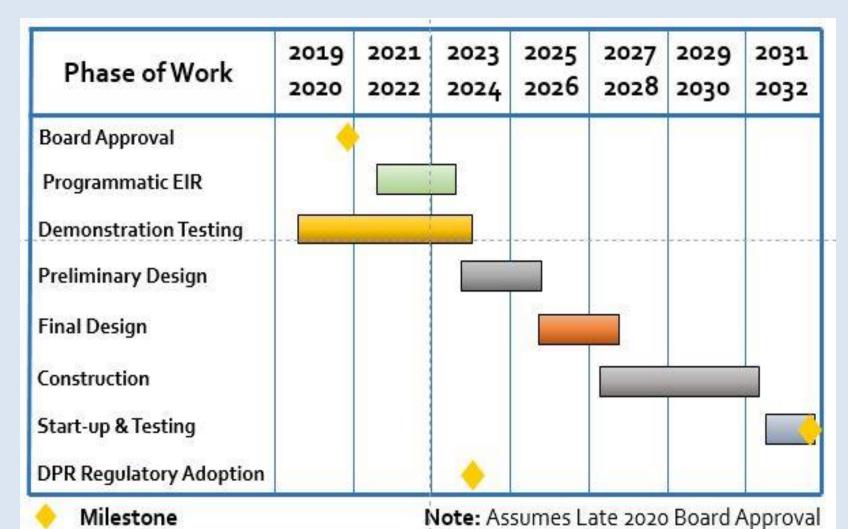
## **Environmental Community Support**

"In the interest of assuring this important resource can be developed and operational in a reasonable period" the environmental community encouraged Metropolitan to move forward with RRWP **CEQA** review





## SCHEDULE ·





### Metropolitan Recycled Water Website



INTRODUCTION HOW IT WORKS PROCESS BENEFITS STRATEGY MILESTONES RESOURCES PARTNERSHIP



#### A NEW SOURCE OF WATER FOR SOUTHERN CALIFORNIA

Water is too precious to use just once. So the Metropolitan Water District of Southern California is making a major investment in a potential water recycling project that will reuse water currently sent to the ocean.

## www.mwdh2o.com/RRWP





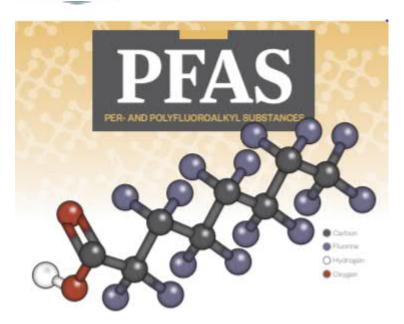
## Regional Recycled Water Program

WateReuse California - Los Angeles Chapter

Raymond Jay
Metropolitan Water District of Southern California
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Los Angeles, CA 90054
(213) 217-5777
rjay@mwd.h2o.com

February 9, 2021
For social media: Use #recycledwater, tag @mwdh20

### Hazen



#### **Update on PFAS Occurrence and Treatment Evaluation**

Nicole Blute, PhD, PE

February 9, 2021
Presentation at WateReuse Los Angeles Meeting

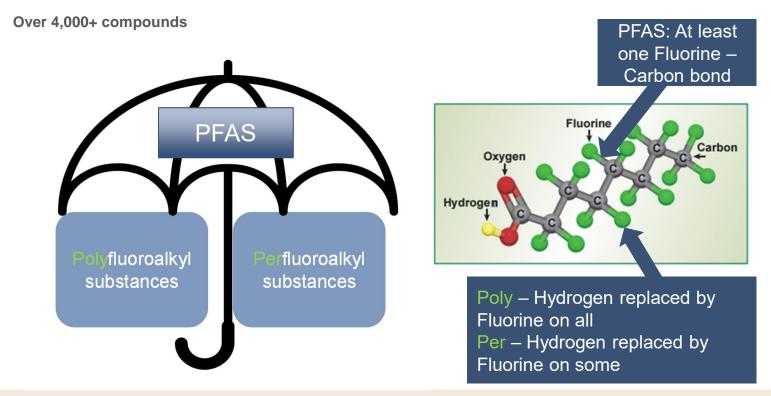
#### **PFAS Sources**



PFAS Monitored for UCMR 3	Source of PFAS
Long-Chains	
Perfluorooctanoic acid (PFOA)	Nonstick Surfaces
Perfluorooctane sulfonate (PFOS)	Fabric Protection, Firefighting Foam
Perfluorononanoic acid (PFNA)	Surfactant for Plastic Production
Short-Chains	5
Perfluorohexane Sulfonic Acid (PFHxS)	Firefighting Foam
Perfluorohexanoic Acid (PFHxA)	Degradation Product of PFHxS
Perfluorobutyrate Acid (PFBA)	Photographic Film

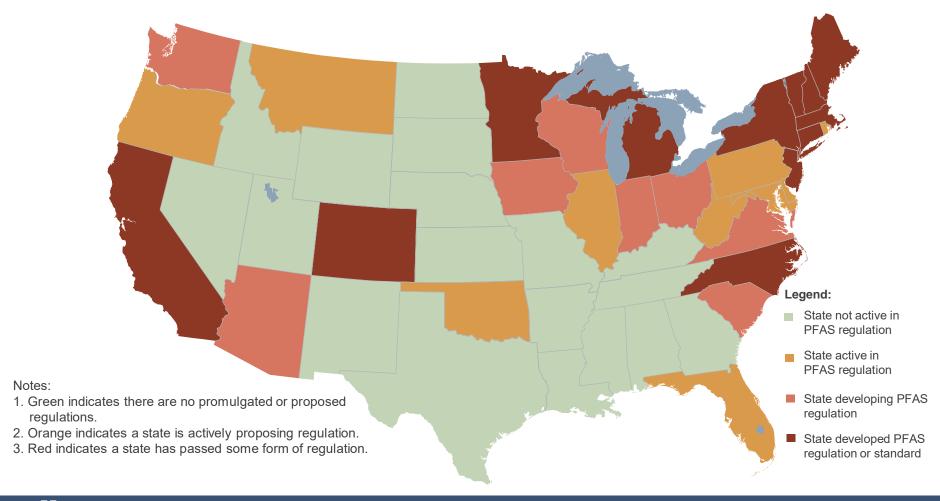
Source: AWWA

#### The (Expanding) World of PFAS Compounds



C-F bond is one of the strongest known covalent bonds, and the multiple C-F bonds in PFASs provide their chemical and thermal stability

#### **PFAS Regulatory Approaches Vary Nationwide**



#### **State PFAS Regulations Summary**

State	Standards/Guidelines
Alabama	Combined 70 ppt PFOA + PFOS HA (long term exposure)
Arizona	Combined 70 ppt PFOA + PFOS
California	Notification Limit for PFOA (5.1) and PFOS (6.5). Response Level for PFOA (10), PFOS (40)
Colorado	Combined 70 ppt PFOA + PFOS + PFNA, 700ppt for PFHxS, and 400,000ppt for PFBS
Connecticut	70 ppt total Alert Level (PFOS, PFOA, PFNA, PFHxS, PFHpA)
Delaware	Combined 70 ppt PFOA + PFOS HA (PFBS GW standard)
Illinois	Proposed standard of PFOA + PFOS < 21 ppt, PFOS (14), PFNA (21), PFHxS (140), PFBS (140,000)
Maine	Combined 70 ppt PFOA and PFOS
Massachusetts	20 ppt total MCL this summer (PFOS, PFOA, PFHxS, PFNA, PFHpA, PFDA)
Michigan	MCL for PFOA (8), PFOS (16), PFNA (6), PFHxA (400,000), PFHxS (51),
Michigan	PFBS (420), GenX (370)
Minnesota	DWGL for PFOA (35), PFOS (15), PFHxS (47), PFBA (7,000), PFBS (2,000)
Montana	Health Advisory for PFOA (41 ppt), PFOS (41 ppt), PFOA + PFOS < 70ppt
New Hampshire	MCL for PFHxS (18), PNFA (11), PFOS (15), PFOA (12) retracted after lawsuit
New Jersey	14 ppt PFOA (MCL), 13 ppt PFOS (MCL), 13 ppt PFNA (MCL)
New York	MCLs for PFOA (10 ppt) and PFOS (10 ppt)
North Carolina	140 ppt GenX
Pennsylvania	Combined 70 ppt PFOA + PFOS HA (MCL under development)
Rhode Island	Combined 70 ppt PFOA + PFOS HA
Vermont	Interim Standard - 20 ppt total for 5 PFAS (PFOA, PFOS, PFHxS, PFHpA, and PFNA)
West Virginia	Combined 70 ppt PFOA + PFOS HA

## News Releases from Headquarters > Office of the Administrator (AO)

## EPA Delivers Results on PFAS Action Plan

Agency delivers on the historic commitments made in the PFAS Action Plan to address these emerging chemicals of concern and protect public health

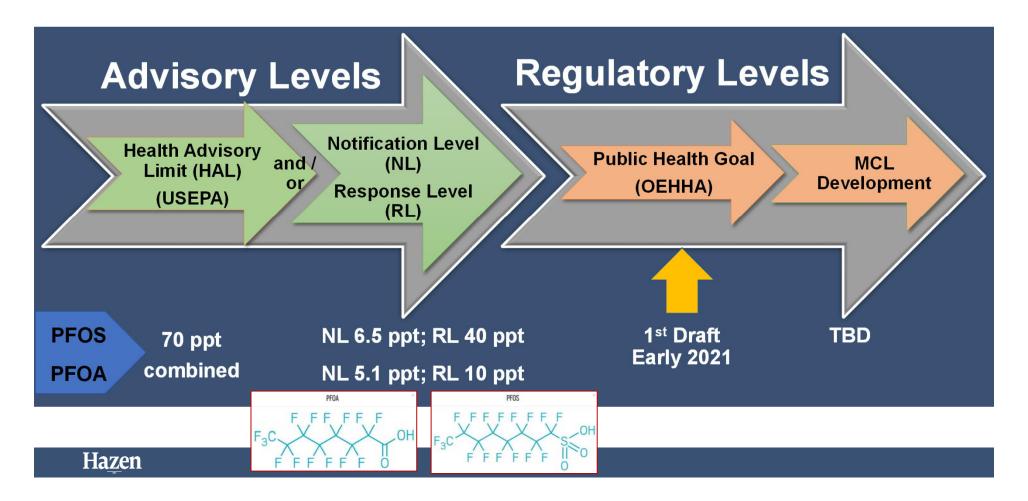
01/19/2021

#### Moving Forward on Regulating PFOA and PFOS in Drinking Water by Issuing Final Regulatory Determinations

After evaluating more than 11,000 public comments, the agency is taking the next step to regulate these two PFAS under the processes laid out in the Safe Drinking Water Act by issuing final regulatory determinations for PFOA and PFOS. EPA will now initiate the process to develop a national primary drinking water regulation for these two PFAS, which will include further analyses, scientific review, and opportunity for public comment. Additionally, EPA intends to fast track evaluation of additional PFAS for future drinking water regulatory determinations if necessary information and data become available. For additional information: www.epa.gov/safewater

#### California Regulatory Path to an MCL

Source: Jeff O'Keefe, DDW



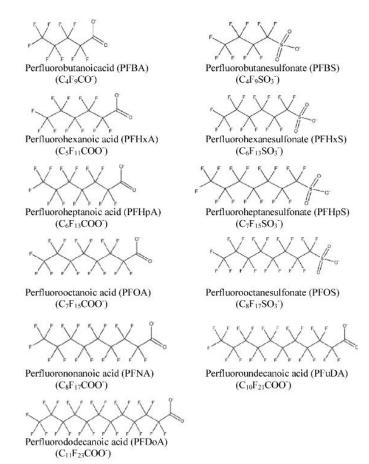
#### Additional PFAS NLs/RLs Being Considered in California

#### **PFBS**

- OEHHA posted recommended NL of 500 ppt on Jan 14, 2021
- NL and RL expected in Spring 2021

#### Others under consideration:

PFHxS, PFNA, PFHxA,
 PFHpA, PFDA, and ADONA



#### **Proposed UCMR5 Monitoring**

29 PFAS compounds, and Lithium

29 Per- and Polyfluoroalkyl Substances (PFAS)

11-chloroeicosafluoro-3-oxaundecane-1- sulfonic acid (11Cl-PF3OUdS)	perfluoro-4-methoxybutanoic acid (PFMBA)	perfluorooctanesulfonic acid (PFOS)
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	perfluorobutanesulfonic acid (PFBS)	perfluorooctanoic acid (PFOA)
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	perfluorobutanoic acid (PFBA)	perfluoropentanesulfonic acid (PFPeS)
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	perfluorodecanoic acid (PFDA)	perfluoropentanoic acid (PFPeA)
4,8-dioxa-3H-perfluorononanoic acid (ADONA) <sup>1</sup>	perfluorododecanoic acid (PFDoA)	perfluoroundecanoic acid (PFUnA)
9-chlorohexadecafluoro-3-oxanone-1- sulfonic acid (9Cl-PF3ONS)	perfluoroheptanesulfonic acid (PFHpS)	n-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
hexafluoropropylene oxide dimer acid (HFPO-DA) (GenX)	perfluoroheptanoic acid (PFHpA)	n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)
nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	perfluorohexanesulfonic acid (PFHxS)	perfluorotetradecanoic acid (PFTA)
perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	perfluorohexanoic acid (PFHxA)	perfluorotridecanoic acid (PFTrDA)
perfluoro-3-methoxypropanoic acid (PFMPA)	perfluorononanoic acid (PFNA)	

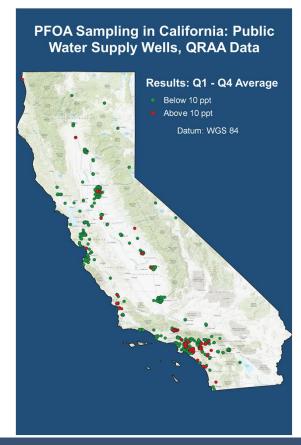
<sup>1.</sup> Although the abbreviation used is ADONA, indicating the ammonium salt, 4,8-dioxa-3H-perfluorononanoic acid is the parent acid.

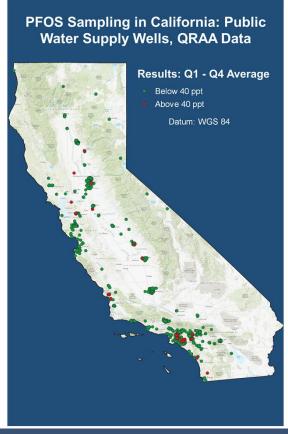
Expected to be a Final Rule in Dec. 2021

Sample collection between 2023-2025

#### California PFAS Occurrence

Source: Jeff O'Keefe, DDW





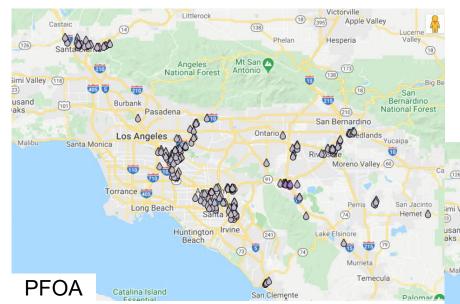
2,900 sampling events in 2019

60% PFAS detections

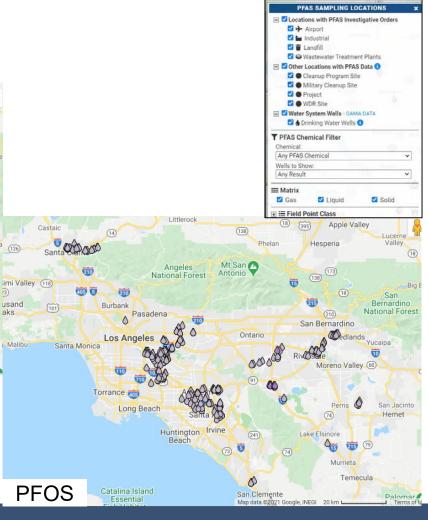
Approximately 100 systems with sources above the RLs

#### **Southern California PFAS**

**Drinking Water Sources above the NLs** 



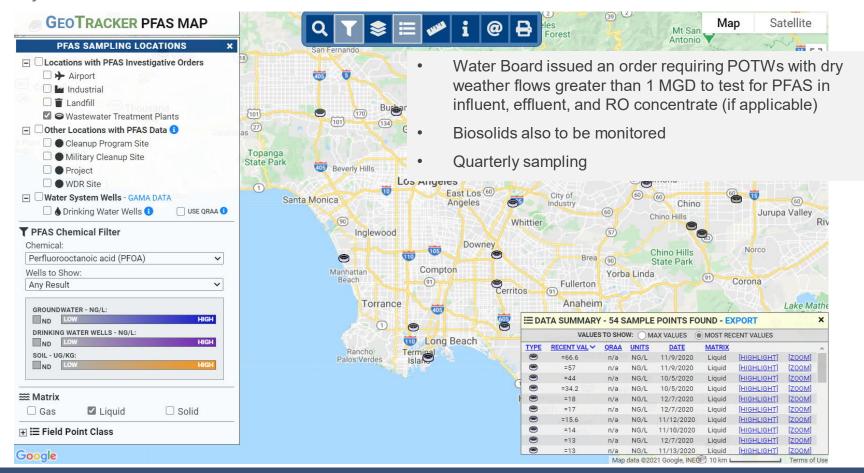
https://geotracker.waterboards.ca.gov/map/pfas\_map



**GEOTRACKER PFAS MAP** 

#### **Southern California PFAS**

**Publicly Owned Treatment Works** 



**Granular Activated Carbon (GAC)** 







- Longer EBCT = larger footprint
- Short-chain PFAS removal
- TOC may affect GAC capacity for PFAS

#### **Benefits**

- Proven PFOA/PFAS removal
- Removal of other chemicals (e.g., 1,2,3-TCP and VOCs)
- DBP precursor reduction

Ion Exchange (IX)



- Proven PFOA/PFAS removal
- Removal of perchlorate
- Shorter EBCT = smaller footprint







#### **Drawbacks**

- More expensive on a \$/cf basis compared to GAC
- Competing anions may affect GAC capacity for PFAS

**Nanofiltration/ Reverse Osmosis (RO)** 



#### **Benefits**

- Removal of most PFAS
- Removal of other chemicals
- DBP precursor reduction
- Softening



#### **Drawbacks**

- Water loss
- Brine management / PFAS destruction in brine
- Costly compared to other options

#### Hazen

**Novel/ Alternative Media** 



#### **Benefits**

 Similar EBCT as IX but potentially lower cost



#### **Drawbacks**

Testing necessary

### Comparison of GAC, IX, and Novel Adsorbents

OCWD Testing with Jacobs and Battelle – commissioned in December 2019

Pilot Adsorbents	No. Products Tested	Empty Bed Contact Time (EBCT)	Supplier(s)/ Manufacturers
GAC	8	10 min	Cabot Norit, Calgon, Evoqua, Jacobi
IX	4	2 min	Calgon, ECT2, Evoqua, Purolite
Alternative (Cyclodextrin- based media)	1	5 min	Cyclopure (DEXSORB+)
Alternative (Surface-mod. bentonite)	1	2 min	CETCO (FluoroSorb 200)

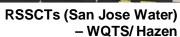
PFAS Detected in Pilot Influent (groundwater)	Mean (ng/L)
PFOA (long-chain)	16
PFOS (long-chain)	23
PFHxS (long-chain)	11
PFBS (short-chain)	15
PFHxA (short-chain)	3

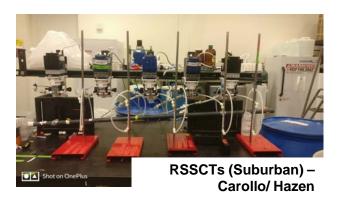


### **Additional Site-Specific Studies to Compare** GAC, IX, and Novel **Adsorbents**

**RSSCTs** Isotherms **Pilot Testing** 









Isotherms (San Jose Water) -**WQTS/ Hazen** 



**GSI Environmental/ Hazen** 



# WateReuse California Los Angeles Chapter Meeting



# February 9, 2021 Legislation & Regulation Update

Raymond Jay Metropolitan Water District of Southern California (213) 217-5777 or rjay@mwdh2o.com

### 2021 California Legislative Calendar

- Jan. 1 Statutes take effect
- Jan. 4 Legislature reconvenes
- Jan. 10 Governor submits budget to Legislature
- Feb. 19 Last day for bills to be introduced
- Apr. 30 Last day policy comm. to report fiscal bills
- May 7 Last day fiscal comm. to report fiscal bills
- June 4 Last day for bills to pass house of origin
- June 15
  Last day to pass budget
- Sept. 10 Last day for any bill to be passed
- Oct. 10 Last day for Governor to sign or veto bills
- See: <a href="http://assembly.ca.gov/legislativedeadlines">http://assembly.ca.gov/legislativedeadlines</a>

### 2021 Relevant Water Legislation

- SB 45 (Portantino): Climate Resiliency Bond
- SB 222 (Dodd): Water Affordability Assistance Program
- SB 222 (Dodd): Discontinuation of residential water service.

SB 230 (Portantino): SWRCB: Constituents of Emerging Concern Program

# SB 230 (Portantino): SWRCB: Constituents of Emerging Concern

- Require SWRCB to develop & maintain CEC program for drinking water
- Establish Science Advisory Panel & science-based approach to consistently assess public health and DW concerns from CECs
- Identify CECs that warrant further action(s)
- Establish CEC Action Fund in State Treasury
- Authorize SWRCB, upon appropriation, to provide financial assistance to water systems from cost of testing
- Similar to SB 996 from 2020 but replaces Stakeholder
   Advisory Group with a public participation process
- Co-sponsored by CUMA and MWD

### Water Use Efficiency Implementation

- Water Conservation and Drought Planning
  - AB 1668 (Friedman, 2018)
  - SB 606 (Hertzberg, 2018)
- Establish water use efficiency objectives & reporting
- Initial indoor water use of 55 gallons per person per day decreases to 50 GPPD by 2030
- Potable reuse credit of 10-15% for new or existing facilities
- Follow Model Water Efficiency Landscape Ordinance for outdoor uses
- No penalties before Nov. 2027

### Recycled Water Volumetric Reporting

- Required by updated Recycled Water Policy
- Data due April 30<sup>th</sup> every year
- 2019 Data is 1st year of reporting
- 2019 submittal delayed to 6/30/2020 due to COVID-19
- Intended to help track RW uses and meet RW goals
- Approximately 820 wastewater and recycled water facilities required to report
- Report influent, effluent, RW use, treatment, & discharge type
- Use SWRCB's GeoTracker GIS reporting system
- https://www.waterboards.ca.gov/water\_issues/programs/water\_r ecycling\_policy/volumetric\_annual\_reporting.html

### Federal Update

- Negotiating \$1.9T COVID relief bill
  - Funds to local governments?
  - Low-income rate payer assistance & water shut offs?
- 117<sup>th</sup> Congress sworn in January 4<sup>th</sup>
- Biden Administration review recent regulations
- WRA Outreach letter to new administration
- National Water Reuse Action Plan

### Questions?

If you have any questions, please contact:

Raymond Jay, Past President



c/o Metropolitan Water District of Southern California
700 N Alameda Street

Los Angeles, CA 90054

(213) 217-5777

rjay@mwd.h2o.com



### Regulatory Agency Updates

- ➤ Los Angeles Regional Water Quality Control Board
  - Steven Webb
- ➤ Los Angeles County Department of Public Health
  - Glenn Van Eekhout
- ➤ State Water Board Division of Drinking Water
  - Mir Ali

### LA WATERUSE MEMBERS MEETING

RECYCLED WATER UNIT Update – February 9, 2021

Mir L. Ali

Water Resources Control Engineer

### Overview

- Direct Potable Reuse (DPR)
- Cross Connection Control Handbook & Non Potable Reuse (NPR) Regs.
- Onsite Reuse Regs.
- Title 22 Engineering Report Update

### Direct Potable Reuse (DPR)

- DPR regulations are on schedule, expected to complete by end of 2023.
- Contract processed to initiate the DPR Expert Panel.
- Purpose of Expert Panel is to ensure draft DPR regs are protective of public health.
- Selection of Expert Panel members ongoing to cover following areas of expertise:
  - Engineers: Experienced with drinking water standards and chemical control treatment.
  - Public health microbiologist or scientist: Specializing in microbiological risk assessment & treatment processes for microorganism control.
  - Toxicologist: Experienced in human health risk assessments for exposures to chemical contaminants in drinking water & familiar with DW Regs.
- Expert panel is expected to be formed by mid of this year (2021).
- Latest DPR Framework document and additional information is available on our website.
- <a href="https://www.waterboards.ca.gov/drinking\_water/certlic/drinkingwater/documents/direct\_potable-reuse/dprframewkseced.pdf">https://www.waterboards.ca.gov/drinking\_water/certlic/drinkingwater/documents/direct\_potable-reuse/dprframewkseced.pdf</a>

# Cross Connection Handbook & Non Potable Reuse (NPR) Regs. Update

- DDW developing cross connection control book, meant to replace the Title 17 regulations.
- Final draft of the handbook is expected to be posted on DDW website for public comments shortly (2 weeks).
- After 45 days the public comments will be incorporated in the handbook and reposted, there will be at least two public hearing once the handbook is made public.
- Additional information is available on DDW website under Upcoming Regulations.
- We are starting on updating the existing NPR regulations which is expected to complete in 2 years.

### Onsite Reuse Regs.

- Regulations for onsite treatment and reuse for non-potable end uses is being drafted and on schedule, to be finalized by end of next year (2022).
- Posting and public hearings expected to begin early next year (2022).
- Additional information is on our website. (Water Quality Criteria for Onsite Treated Non-potable Water Systems, Section 13558).
- https://www.waterboards.ca.gov/drinking\_water/certlic/drinkingwater/onsite\_nonpotable\_reuse\_ regulations.html

### Title 22 Engineering Report Update

- All Title 22 engineering reports which were permitted prior to January 1, 2001 need to be updated per the Recycled Water Policy.
- RWU working on sending out letters within this month to the Regional Boards and DDW field offices (District Engineer) regarding it.
- https://www.waterboards.ca.gov/board\_decisions/adopted\_orders/resolutions/2018/121118\_7\_ final\_amendment\_oal.pdf

Thank You

Mir.Ali@Waterboards.ca.gov



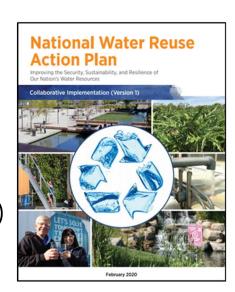
Last WateReuse CA Board of Trustees Meeting: February 5, 2021

### **Draft WRCA Charter**

- New Charter will replace current bi-laws for each State section
- Reviewed and revised by WRCA executive board
- New state charter expected be sent to national board in March

### Water Reuse Action Plan Implementation (WRAP)

- Developed list of action items from EPA's National Water Reuse Action Plan
- WRCA advocating for federal interagency workshop(s)





### 50L Home Coalition

- Initiative to develop homes that can be sustained on 50 liters (13 gallons)
   per person/per day
- WRCA members have raised concerns on impact to wastewater facilities/RW https://50lhome.org/

#### Indian Wells Event in 2024

- National to commit to Indian Wells events to avoid fees cancellation fees.
- Currently negotiating with hotel for 2024 event



#### WRCA Membership Renewals for 2021

40 Agencies (2 not renewing), 19 companies/consulting firms, 7 affiliated organizations.

#### Ocean Discharge Legislation

There will likely NOT be reintroduction of Zero Discharge legislation this year

### SB-230 (Portantino) – Establish Drinking Water CEC Program

Board voted and unanimously approved recommendation to support bill

### SB 45 (Portantino) – Climate Bond Update

- Currently \$5.5B with \$100M slated for RW
- Leg-Reg Committee to determine appropriate amount and request increase



### Statewide RW/Wastewater Survey

- Agricultural reuse in CA decreased by 35% since 2015
- WRCA sent letter to Water Board to make changes to definitions for 2021 survey
- Board voted and unanimously approved formation of WRCA Ag Reuse Standing Committee

### <u>Communications Collaborative Group Update</u>

Developing draft signage guidelines – to produce uniform message







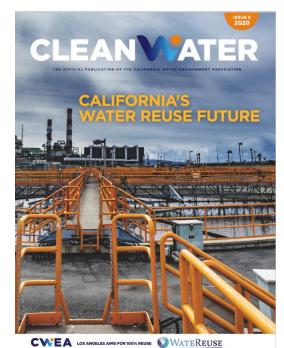


### CUWA Recycled Water White Paper Outreach Effort

 Published white paper on Facing Challenges with Maximizing Water Reuse <a href="https://www.cuwa.org/pubs/2021-maximizing-reuse">https://www.cuwa.org/pubs/2021-maximizing-reuse</a>

#### **CWEA-WRCA DPR Issue**

- December 2020 issue has been published
- Collaborative issue between CWEA and WRCA
   <a href="https://www.kelmanonline.com/httpdocs">https://www.kelmanonline.com/httpdocs</a>
   /files/CWEA/cleanwater-issue5-2020/index.html





### Hope to see you all at the 2021 WateReuse Symposium!



https://watereuse.org/news-events/conferences/36th-annual-watereusesymposium/registration/



Thank you to our former chapter trustee, Evelyn Cortez-Davis!



thank you!

### Chapter Updates (Judi Miller)

- ➤ December Meeting Summary
- ➤ Volunteer Opportunities
  - ❖ Technical Committee Chair
  - Meeting Summary preparation
- ➤ Young Member Committee Update
  - Alex Waite

### Membership Roundtable (Jared Lee)

### In Memoriam: Viet Ha



### In Memoriam: Robert Bueras



### **Next Meetings**

- ➤ Tuesday, April 13, 2021 Virtual
- ➤ Tuesday, June 8, 2021 Virtual

