



**AGENDA**

**WORKSHOP/MEETING  
OF THE  
BOARD OF DIRECTORS**

**WEDNESDAY, NOVEMBER 6, 2019  
10:00 A.M.**

**INLAND EMPIRE UTILITIES AGENCY\*  
AGENCY HEADQUARTERS  
BOARD ROOM  
6075 KIMBALL AVENUE  
CHINO, CALIFORNIA 91708**

**CALL TO ORDER  
OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS  
WORKSHOP/MEETING**

**FLAG SALUTE**

**PUBLIC COMMENT**

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to complete and submit to the Board Secretary a "Request to Speak" form which is available on the table in the Board Room. Comments will be limited to three minutes per speaker. Thank you.

**ADDITIONS TO THE AGENDA**

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

**1. ACTION ITEM**

**A. ADOPTION OF RESOLUTION NO. 2019-11-1, COMMENDING MVWD  
GENERAL MANAGER MARK KINSEY FOR 21 YEARS OF PUBLIC  
SERVICE**

Staff recommends that the Board adopt Resolution No. 2019-11-1, commending General Manager Mark N. Kinsey for 21 years of public service with the Monte Vista Water District.

2. **WORKSHOP**

A. **IEUA SECURITY (POWERPOINT)**

B. **PFAS OVERVIEW (POWERPOINT)**

3. **GENERAL MANAGER'S COMMENTS**

4. **ADJOURN**

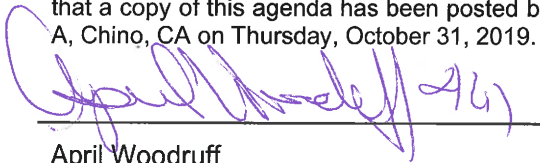
\*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary (909) 993-1736, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

Proofed by: 

**Declaration of Posting**

I, April Woodruff, Board Secretary of the Inland Empire Utilities Agency\*, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Thursday, October 31, 2019.

  
April Woodruff

**ACTION**

**1A**



---

**Date:** November 6, 2019

**To:** The Honorable Board of Directors

**From:** Shivaji Deshmukh, General Manager

SDO

**Committee:**

**Executive Contact:** Shivaji Deshmukh, General Manager

**Subject:** Adoption of Resolution No. 2019-11-1, Commending Monte Vista Water District General Manager Mark Kinsey for 21 Years of Public Service

---

**Executive Summary:**

General Manager Mark J. Kinsey has served as the General Manager of the Monte Vista Water District (MVWD) since 1998. He has overseen the expansion of MVWD's services to include wholesale water supply to the city of Chino Hills for the delivery of up to 20.22 million gallons of water per day. He also facilitated the purchase of the Monte Vista Irrigation Company, resulting in increased production rights in the Chino Groundwater Basin. He has led MVWD in making numerous investments to guarantee affordable and reliable high-quality water for its valued customers. Mr. Kinsey has served on several technical and management committees, Chino Basin Watermaster's (CBWM) Appropriative Pool, CBWM Advisory Committee, CBWM Board of Directors, and collaborated with local agencies to form the Chino Basin Water Bank. He had the innovative vision to develop and construct the District's four Aquifer Storage and Recovery groundwater wells. He has also encouraged water use efficiency efforts and consistently supported new, innovative ways to help consumers use water wisely.

The Inland Empire Utilities Agency's Board of Directors would like to publicly extend its most sincere appreciation to General Manager Mark Kinsey for his 21 years of dedicated public service as the General Manager of MVWD.

---

**Staff's Recommendation:**

Adopt Resolution No. 2019-11-1, commending General Manager Mark N. Kinsey for 21 years of public service with the Monte Vista Water District.

---

**Budget Impact** Budgeted (Y/N): Y Amendment (Y/N): Y Amount for Requested Approval:

Account/Project Name:

N/A

*Fiscal Impact (explain if not budgeted):*

**Prior Board Action:**

---

**Environmental Determination:**

Not Applicable

---

**Business Goal:**

---

**Attachments:**

Attachment 1 - Resolution No. 2019-11-1

**RESOLUTION NO. 2019-11-1**  
**RESOLUTION OF THE BOARD OF DIRECTORS OF INLAND EMPIRE UTILITIES**  
**AGENCY\*, SAN BERNARDINO COUNTY, CALIFORNIA, COMMENDING**  
**MARK N. KINSEY FOR 21 YEARS OF PUBLIC SERVICE WITH THE**  
**MONTE VISTA WATER DISTRICT**

**WHEREAS**, Mark N. Kinsey has served as the General Manager of the Monte Vista Water District since 1998, with experience in water resources, as well as urban, regional and financial planning; and

**WHEREAS**, Mark N. Kinsey has overseen the expansion of Monte Vista Water District's services to include wholesale water supply to the city of Chino Hills for the delivery of up to 20.22 million gallons of water per day, as well as facilitated the purchase of the Monte Vista Irrigation Company resulting in increased production rights in the Chino Groundwater Basin; and

**WHEREAS**, Mark N. Kinsey has led the Monte Vista Water District in making numerous investments over the years to guarantee affordable and reliable high-quality water for its valued customers; and

**WHEREAS**, Mark N. Kinsey has been involved in several technical and management committees responsible for developing long-range water supplies and water quality improvements in the Santa Ana Watershed and Chino Groundwater Basin and expanded recycled water distribution within the city of Montclair; and

**WHEREAS**, Mark N. Kinsey has played a significant role with Chino Basin Watermaster, serving on the Appropriative Pool and Advisory Committee for more than 15 years, as well as on the Board of Directors, and collaborated with local water agencies to form the Chino Basin Water Bank; and

**WHEREAS**, Mark N. Kinsey had the innovative vision to develop and construct the District's four Aquifer Storage and Recovery groundwater wells; and

**WHEREAS**, Mark N. Kinsey has encouraged water use efficiency efforts, including the development of one of the first budget-based tiered rate structures, positioning Monte Vista Water District as a leader in the region, and consistently supporting new, innovative ways to help consumers use water wisely.

**NOW, THEREFORE, BE IT RESOLVED**, that the Inland Empire Utilities Agency's Board of Directors does hereby publicly extend its most sincere appreciation to Mark N. Kinsey for his 21 years of dedicated public service at the Monte Vista Water District. His exemplary work ethic and dedication are to be commended.

**APPROVED AND ADOPTED** this 6<sup>th</sup> day of November, 2019.

ATTEST:

---

Paul Hofer  
President of the Inland Empire  
Utilities Agency\* and of the  
Board of Directors thereof

---

Kati Parker  
Secretary/Treasurer of the Inland Empire  
Utilities Agency\* and of the  
Board of Directors thereof

\*A Municipal Water District

STATE OF CALIFORNIA )  
COUNTY OF ) SS  
SAN BERNARDINO )

I, Kati Parker, Secretary/Treasurer of the Inland Empire Utilities Agency\*, DO  
HEREBY CERTIFY that the foregoing Resolution being No. 2019-11-1, was adopted at a regular  
Board Meeting on November 6, 2019, of said Agency by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

---

Kati Parker  
Secretary/Treasurer of the Inland Empire  
Utilities Agency\* and of the  
Board of Directors thereof

(SEAL)

\*A Municipal Water District

**WORKSHOP**

**2A**



# IEUA SECURITY



# IEUA Security

- Overview
  - Facilities/Physical Security
    - Activity
    - Systems
    - Future Projects



# IEUA Security - Activity

- Facility Security Assessments
  - Department of Homeland Security - Consultant
    - Urban Area Security Initiative (UASI) Grant
  - Areas of Focus
    - Perimeter Controls and Deterrents
      - Fencing, Gates, Barriers, Signage
    - Use of Technology
      - Cameras, Lighting
    - Environmental Design
      - Landscaping Design and Maintenance



# IEUA Security - Systems

- Security Services
  - Burglar and Fire Systems
  - Alarm Monitoring
  - Guard Services
- Access Control
- Cameras
- Inspections
  - Reporting/Repairs



# IEUA Security - Projects

- Camera Systems
- Landscape Coordination
- Access Control
- Fencing
- Guard Services



# Cybersecurity Program

First  
Cybersecurity  
Assessment

Sept  
2015

# Cybersecurity Program

First  
Cybersecurity  
Assessment



Business  
Cybersecurity  
Assessment



Ransomware  
Attack



Phishing  
Training  
Program  
Launch



# Cybersecurity Program

First  
Cybersecurity  
Assessment

Sept  
2015

Business  
Cybersecurity  
Assessment

April  
2016

Ransomware  
Attack

July  
2016

Phishing  
Training  
Program  
Launch

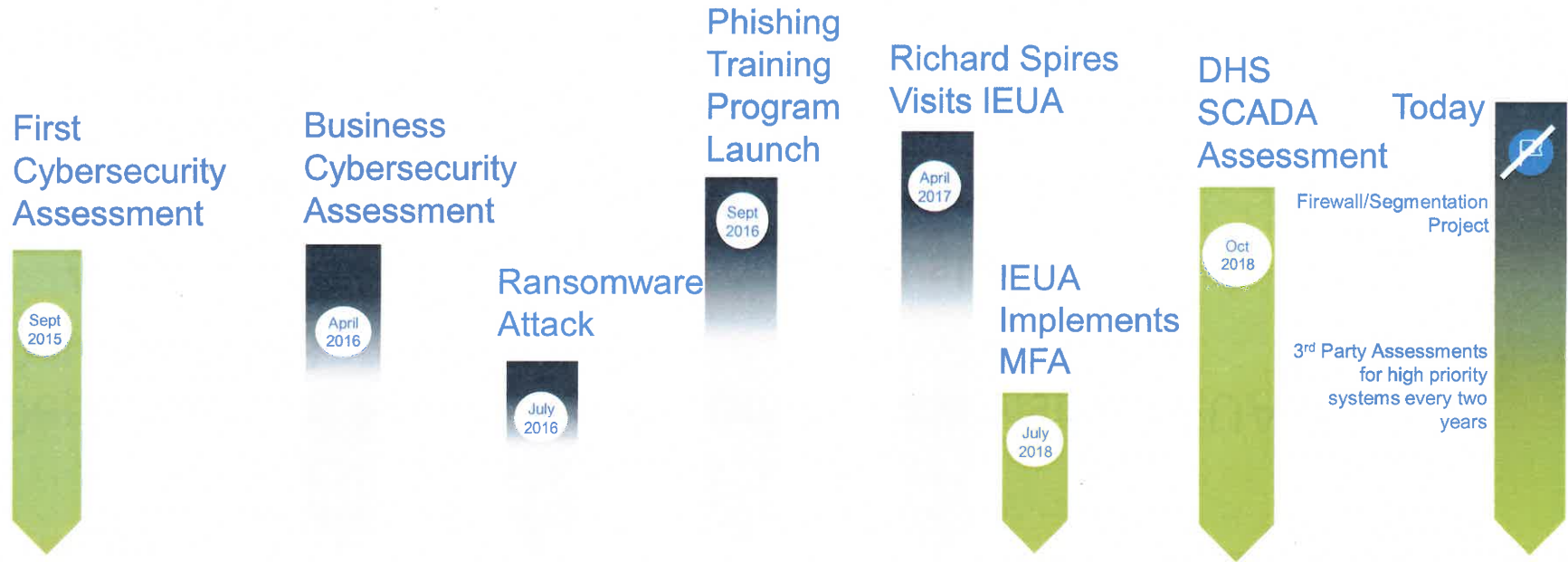
Sept  
2016

Richard Spires  
Visits IEUA

April  
2017



# Cybersecurity Program



# Department of Homeland Security

## Department of Homeland Security onsite visit at IEUA - October 2018

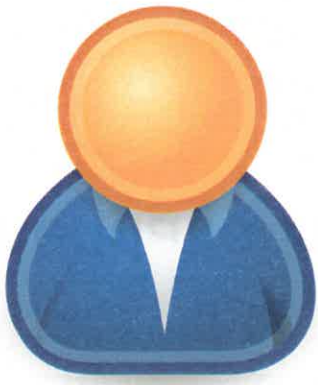
- Assessed the wastewater control system
- IEUA was 81<sup>st</sup> wastewater assessment
- Ranked IEUA in top 25 percentile of wastewater agencies assessed

## Discovery Key Strengths

Contingency planning



Dedicated security person



Multifactor authentication



# Department of Homeland Security

## Discovery Recommendations

- Encryption
- Backups
- Patching
- Segmentation
- Detection
- Alternate Control
- Configuration

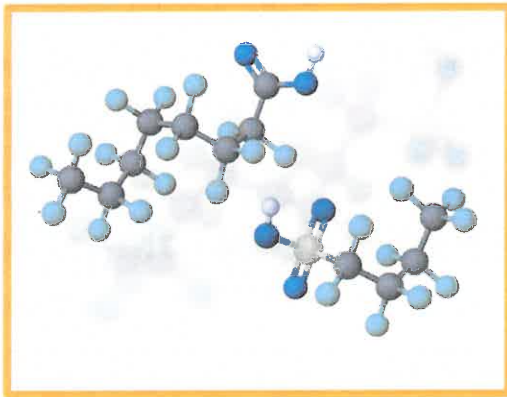


**WORKSHOP**

**2B**

# PFAS

## Board Workshop



NEWS ENVIRONMENT

## Results of San Bernardino County wells tested for PFAS

16 county agencies ordered to test 45 wells for the chemicals



By **MARTIN WISCKOL** | mwisckol@scng.com and **HANH TRUONG** | htruong@scng.com



**TWAN NGUYEN** examines a machine testing water for chemicals at the Orange County Water District.

## 'Forever chemicals' taint water

Water from 45 wells in San Bernardino County tested for PFAS chemicals. Results show some wells have high levels of the toxic substances.

**KATE F. WRIEDT**

She is per known for 'Lithium'

By **DENISE RYAN**

**K**ate F. Wriedt is a writer and author. She has written for The New York Times, The Washington Post, and other major publications. Her work often focuses on environmental and public health issues.

Foreverman died Saturday in her home in Santa Fe, N.M., reveals Jane Wiles said about her mother. "She was vivid and intense. She was uncompromising," said Wriedt, who called Foreverman "a fast process of evolution." Foreverman wrote about extreme female protagonists and her evolving love and longing for the city that raised her. Los Angeles inspired much of her writing. She published several books of fiction and nonfiction.



Foreverman's character were often affected by isolation and displacement, experiences she knew intimately. "I grew a sense of connection outside the so-called American mainstream. The American dream is not for everyone."

## PFAS toxins found in drinking water throughout Southern California

'Forever chemicals' rapidly emerge



**THE FIRE** broke out on Tuesday with firefighters. It will cause it to spread. Fire, Above, firefighters. Air Force 17. A fire that resulted in 2000 in 2017.

## Firefighting foam leaves toxic plume

Firefighting foam leaves toxic plume. The foam contains PFAS chemicals that can be harmful to health.

# CALIFORNIA

TUESDAY, OCTOBER 15, 2019 - LATIMES.COM/CALIFORNIA



## Water sources across the state have traces of toxic chemicals

Study is initial look at contaminants linked to cancer in California as officials work on safety standards.

By **ANNA M. PETERSON** and **ANDREW PETERSON**

**WASHINGTON** Nearly 400 drinking water wells and other water sources in California have traces of toxic chemicals linked to cancer, new state research found.

The study, conducted this year, found that 400 wells across the state showed positive results for PFAS chemicals, which are widely used for products as insulating and firefighting foams.

The study also found that PFAS chemicals were found in 100 of the 400 wells. The chemicals are found in a wide range of products, including firefighting foams, and are known to be persistent in the environment.

The study is the first of its kind in California. It is part of a larger effort to identify and address PFAS contamination in drinking water.

PFAS chemicals are found in a wide range of products, including firefighting foams, and are known to be persistent in the environment.

The study is the first of its kind in California. It is part of a larger effort to identify and address PFAS contamination in drinking water.

PFAS chemicals are found in a wide range of products, including firefighting foams, and are known to be persistent in the environment.

The study is the first of its kind in California. It is part of a larger effort to identify and address PFAS contamination in drinking water.

PFAS chemicals are found in a wide range of products, including firefighting foams, and are known to be persistent in the environment.

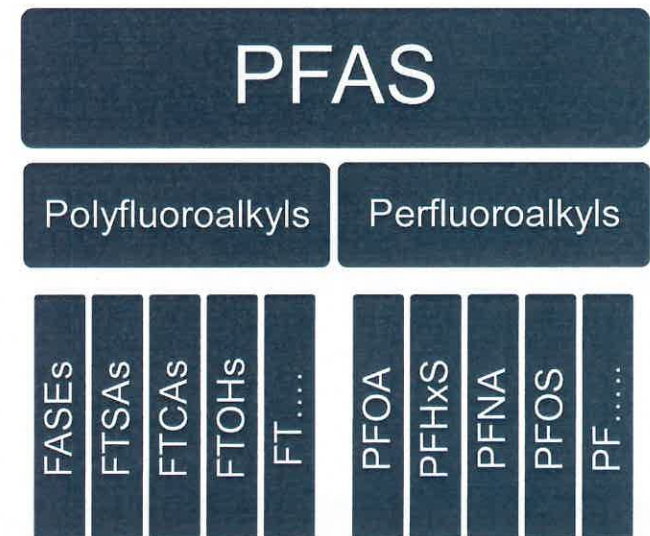
The study is the first of its kind in California. It is part of a larger effort to identify and address PFAS contamination in drinking water.

## UBER RIPS SETUP AT LAX

Company warns that the new area for

# What are per- and polyfluoroalkyl substances (PFAS)?

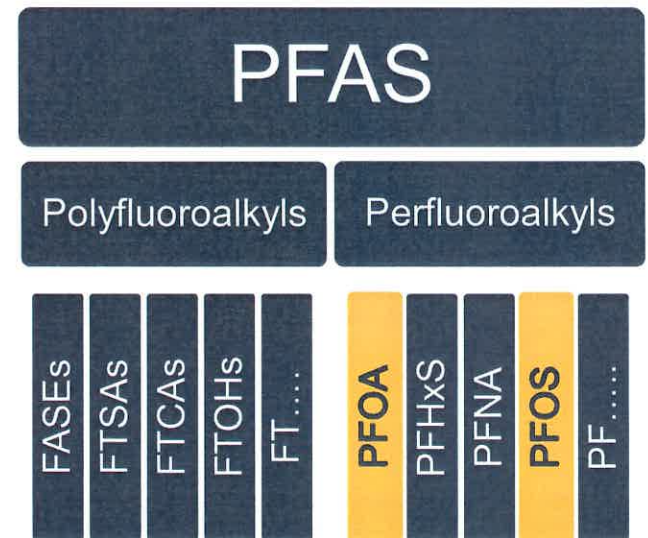
- A large group of manufactured chemicals
  - Resistant to heat, water, and oil
  - Wide variety of industrial and consumer uses
  - Potential adverse human health effects
  - Persistent in the environment





# What are per- and polyfluoroalkyl substances (PFAS)?

- A large group of manufactured chemicals
  - Resistant to heat, water, and oil
  - Wide variety of industrial and consumer uses
  - Potential adverse human health effects
  - Persistent in the environment

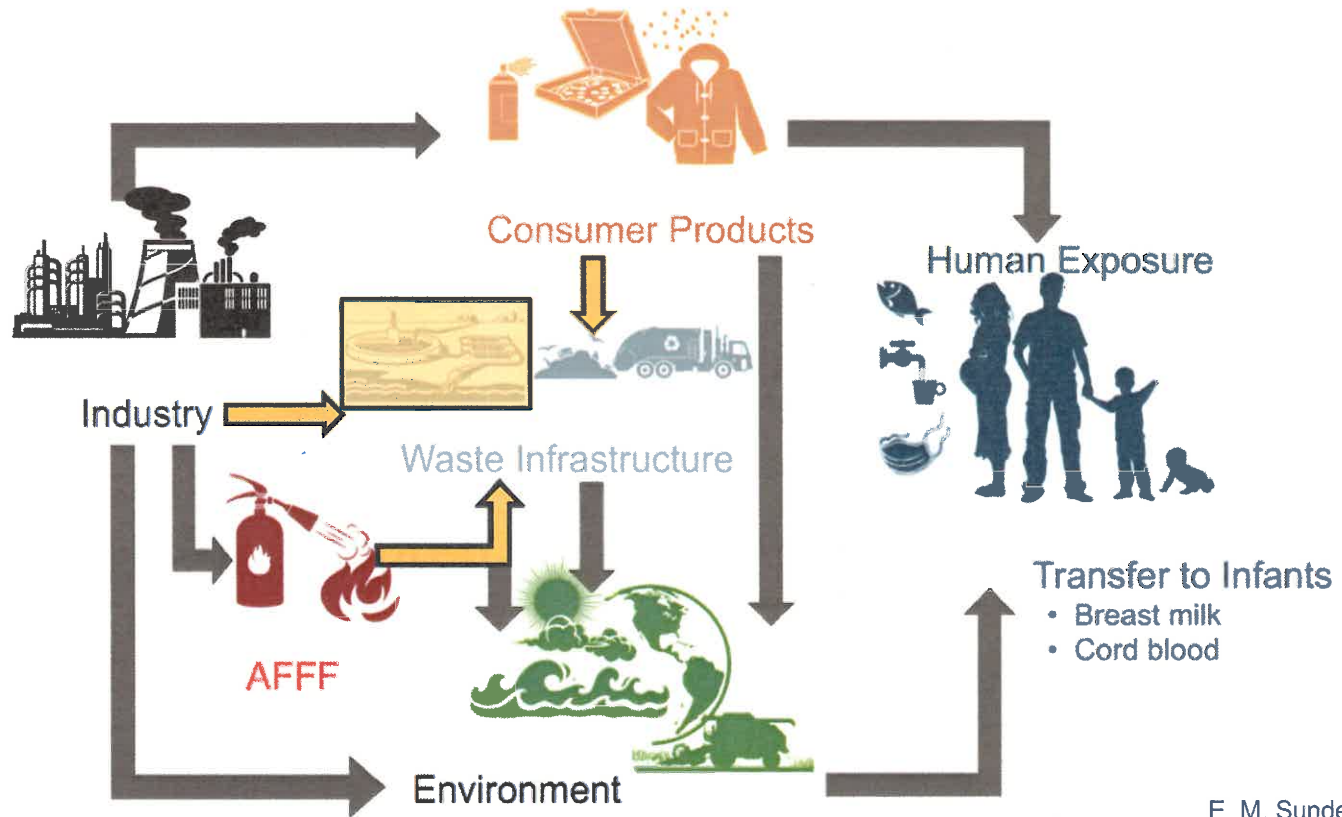


# What are per- and polyfluoroalkyl substances (PFAS)?

- A large group of manufactured chemicals
  - Resistant to heat, water, and oil
  - Wide variety of industrial and consumer uses
  - Potential adverse human health effects
  - Persistent in the environment



# PFAS in the environment and exposure



# Drinking Water Regulatory Requirements

- USEPA
  - Lifetime Health Advisory: PFOA + PFOS = 70 ng/L-ppt (2016)
- CA DDW
  - Notification Level PFOA = 5.1 ng/L-ppt (August 2019)
  - Notification Level PFOS = 6.5 ng/L-ppt (August 2019)
  - Response Level PFOA + PFOS = 70 ng/L-ppt (July 2018) → Revision (Fall 2019)
  - Assembly Bill 756: Expands notification requirements to customers (2020)

→ USEPA or CA Possible Enforceable Maximum Contaminant Level - MCL (2022)



# PFAS Testing Challenges

- Sampling
  - Field samplers
  - Sampling equipment
  - Ambient
- Analytical
  - Instruments and solvents
  - Approved Method



# IEUA Monitoring Data

	Recycled Water	Stormwater Local Runoff	Effluent Discharge
PFOA (ng/L-ppt)	12 – 14	ND – 43	5 – 34
PFOS (ng/L-ppt)	ND - 2	ND - 14	ND - 5

# Potential Impact to IEUA

- Compliance
- Laboratory Testing
- Pretreatment and Source Control
- Groundwater Recharge Program
- Organic/Compost Recycling Program
- Capital Improvement Program
- Operational
- Financial



# Treatment Technologies

Treatment	Short Chain PFAS Removal	Long Chain PFAS Removal	Other Contaminants Removal	Challenges	Cost
Granular Activated Carbon	■	■ ■	■ ■	PFAS fate during thermal regeneration	\$ - \$\$
Powdered Activated Carbon	■	■	■	Cannot be used in a flow through bed	\$\$
Ion Exchange	■	■ ■	■	Background water effects unknown	\$\$\$
Membrane Separation	■	■	■ ■	High energy requirement Membrane fouling Concentrate mgmt	\$\$\$\$



# IEUA Response

- Compliance RW monitoring
- Voluntary monitoring
  - Collaboration with SAWPA
- OEHHA Toxicology report review
  - Intertox, EMWD, OCWD, SBVMWD, WMWD
- Engagement with regulators
  - Comment letters to Governor and DDW
- Collaboration with other Agencies and Associations
  - CBWM, MWD, CASA, ACWA, WaterReuse

