# Community Meeting PFAS Treatment Facility May 6, 2021

Reunión comunitaria Centro de tratamiento de PFAS 6 de mayo de 2021

Spanish Interpretation Available/
Interpretación en español
disponible

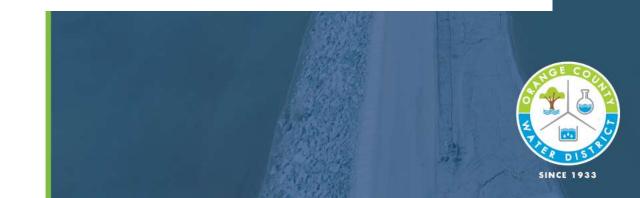
- 1) Haga clic en el círculo
- 2) Haga clic en el idioma español

1. In your meeting/webinar controls, click Interpretation.



2. Click the language that you would like to hear.





## Questions & Answers/Preguntas y Respuestas

There are two ways to participate in the Q & A /

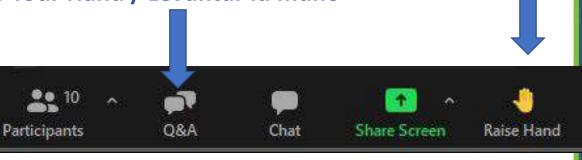
Hay dos maneras de participar en la sesión de Preguntas y Respuestas:

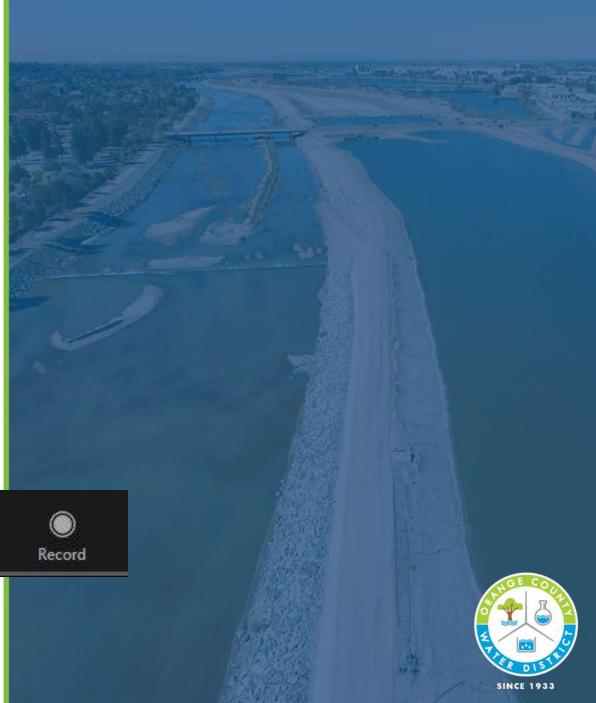
#### Ask a Question / Hacer una pregunta

Type it in the Q & A box/

Escribirla en el cuadro de Preguntas y Respuestas

Raise Your Hand / Levantar la mano





#### **COMMUNITY MEETING**

May 6, 2021

5:30 p.m. – 6:30 p.m.

#### **AGENDA**

#### Welcome & Introductions

Bruce Whitaker
Director, Orange County Water District (OCWD) & Mayor, City of Fullerton

Mike Markus, P.E., D.WRE, BCEE, F.ASCE General Manager, OCWD

#### What are PFAS and How Are They Affecting OCWD's Service Area?

Jason S. Dadakis, P.G., C.HG Executive Director Water Quality and Technical Resources, OCWD

#### **Construction of the PFAS Treatment Facility**

Benjamin Smith, P.E.
Project Manager and Senior Engineer, OCWD

**Questions & Answers** 

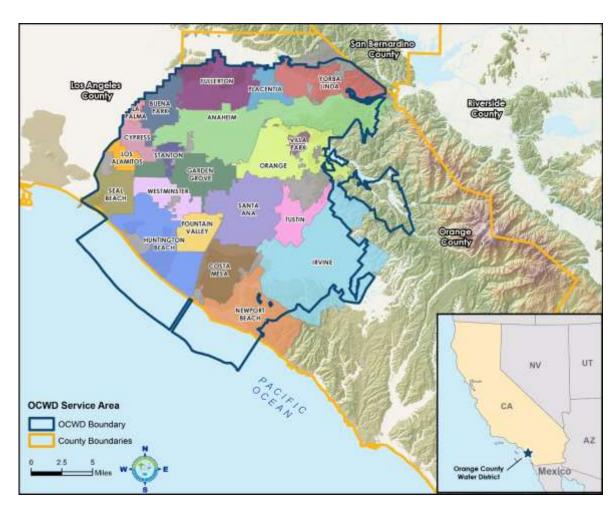


# What are PFAS and How Are They Affecting OCWD's Service Area?

## Orange County Water District (OCWD)



- Formed in 1933 by California legislature
  - Manage OC Groundwater Basin
  - Protect OC's rights to Santa Ana River
- Provides groundwater to
  - 19 large municipal and special water districts
  - 2.5 million customers in north and central Orange County



### What Are PFAS, PFOA & PFOS?







- PFAS = Per- and Polyfluoroalkyl Substances (family of 1000s of chemicals)
- PFOA = Perfluorooctanoic Acid (C<sub>8</sub>HF<sub>15</sub>O<sub>2</sub>)
- PFOS = Perfluorooctane Sulfonate (C<sub>8</sub>HF<sub>17</sub>O<sub>3</sub>S)
- PFBS = Perfluorobutane Sulfonate (C<sub>4</sub>HF<sub>9</sub>O<sub>3</sub>S)

# Wide Range of Historical PFAS Uses













#### Commercial and Consumer Products Containing PFAS:

- paper and packaging
- · clothing and carpets
- outdoor textiles and sporting equipment
- ski and snowboard waxes
- non-stick cookware
- cleaning agents and fabric softeners
- polishes and waxes, and latex paints
- pesticides and herbicides
- hydraulic fluids
- windshield wipers
- paints, varnishes, dyes, and inks
- adhesives
- medical products
- personal care products (for example, shampoo, hair conditioners, sunscreen, cosmetics, toothpaste, dental floss)

## California: PFAS Drinking Water Advisories



- Response Level = threshold at which state recommends water not served to the public w/o treatment or blending.
- Current Response Levels for PFAS
  - PFOA = 10 parts per trillion (ppt)
  - PFOS = 40 ppt
  - PFBS = 5000 ppt
- State and Federal EPA have separately begun process to establish enforceable Maximum Contaminant Levels (MCLs)

## PFAS Impact in OCWD Service Area



- Eleven water suppliers in the OCWD service area are currently impacted by Response Levels
- Up to ~ 1/3 of normal groundwater basin production unable to be served by following state recommendations
- Temporary increase in the use of treated imported surface water

## OCWD's Swift Response



- OCWD supporting design/construction of PFAS treatment systems for impacted water retailers, including City of Fullerton
- OCWD launched nation's largest PFAS pilot program
- Dec. 2020: OCWD + 10 impacted retail agencies filed suit against 3M, DuPont, and others
- OCWD began early monitoring to provide more data and information to Producers and Regulators

## Impacts to City of Fullerton

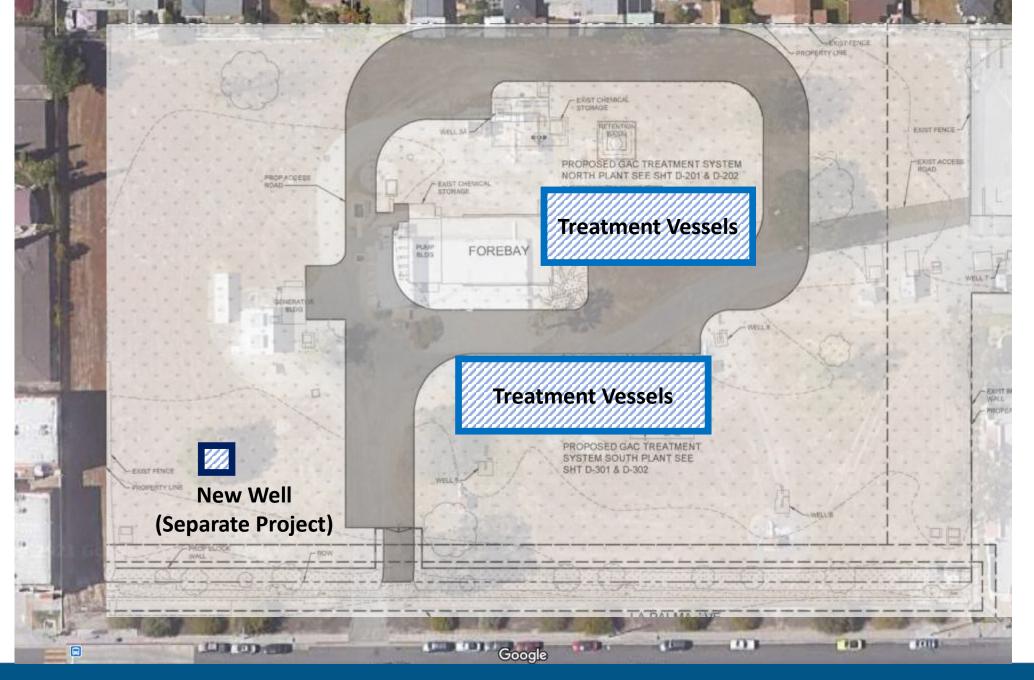


- Two wells shut down
- Water supply switched to treated surface water
- Working with OCWD to plan/design/construct PFAS Treatment Systems featuring Ion Exchange (IX) and Granular Activated Carbon (GAC) for its wells
- IX and GAC are well-established water treatment technologies and pilot testing by OCWD established its effectiveness for PFAS removal

## Construction of the PFAS Treatment Facility

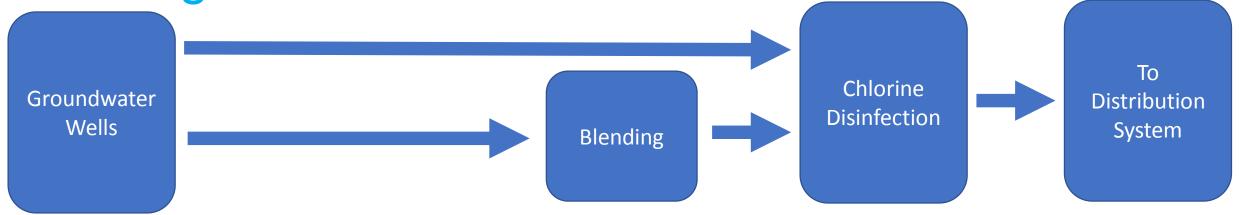


#### ORANGE COUNTY WATER DISTRICT

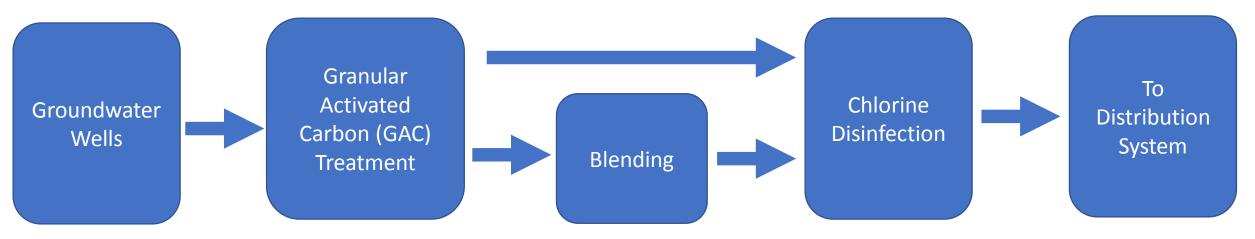




### **Existing Treatment Process**



#### **New Treatment Process**









## **Project Benefits**

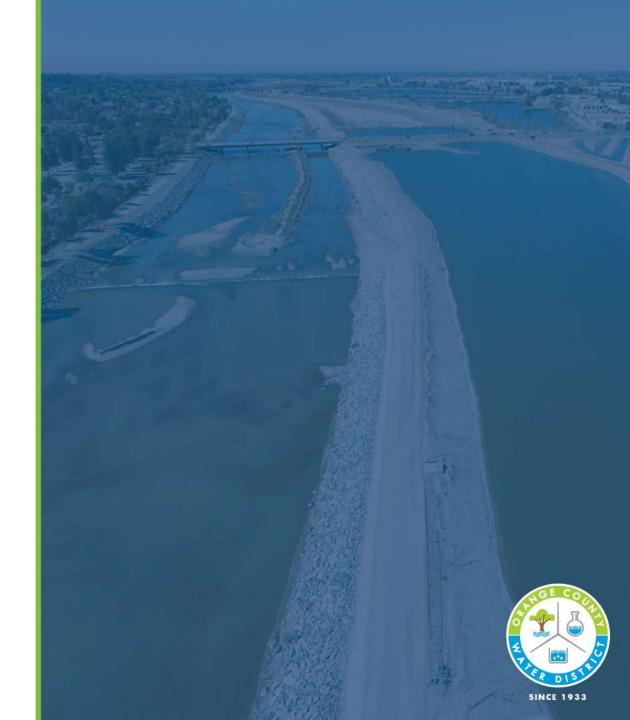


- Ability to fully utilize the groundwater basin
- Paving of existing dirt roads
- Block wall
- Landscaping



### **Project Schedule**

- Construction Mobilization: Fall 2021
- Expected Operation: Summer 2022
- Construction Completion: Fall 2022



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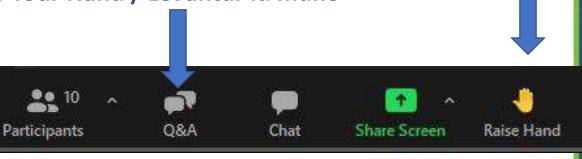
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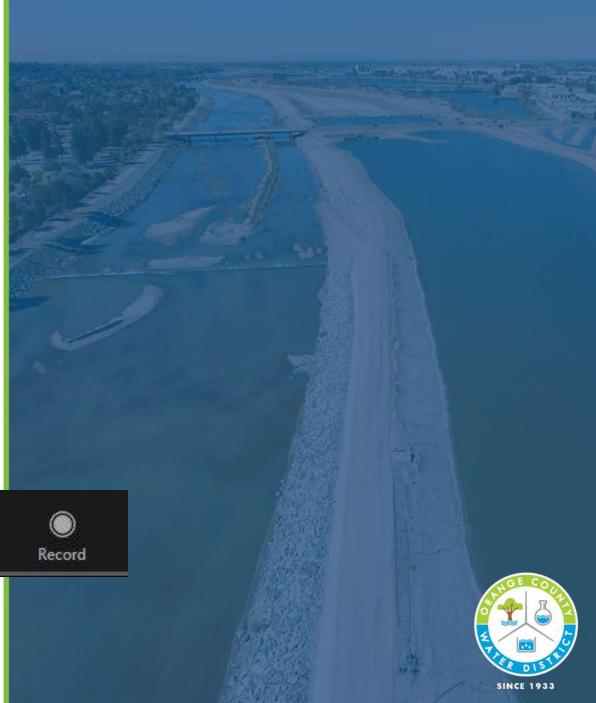
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#### **OCWD** Construction Hotline



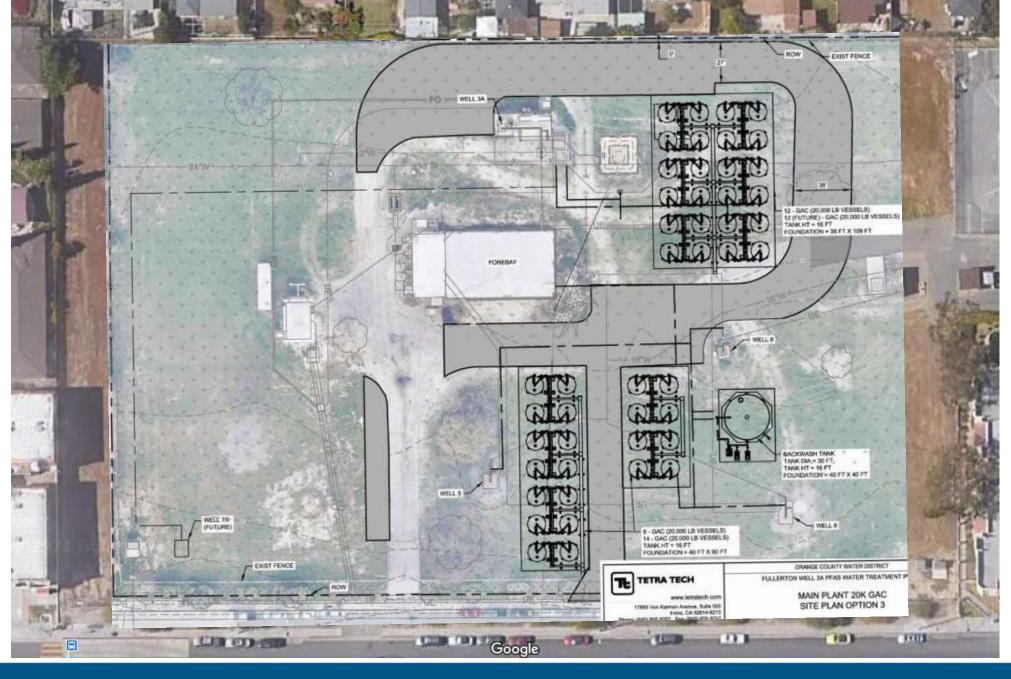
(714) 378-8244

or

Email: Info@ocwd.com

Watereng@cityoffullerton.com

WWW.OCWD.COM





#### ORANGE COUNTY WATER DISTRICT



## 16- FOOT (20k) FULL BUILDOUT