

# DRINKING WATER IN CALIFORNIA'S CENTRAL VALLEY SOLUTIONS TO GROUNDWATER CONTAMINATION



California Water  
Institute

CHEMICALS AND COMPOUNDS OF CONCERN

**Perfluorochemicals, 1,2,3-Trichloropropane, Nitrate,  
Arsenic, Chrome 6, VOCs, Uranium, and more....**



Workshop programs from the American Ground Water Trust  
in cooperation with Fresno State California Water Institute

**Fresno (Clovis), August 20, 2019 (8:30 – 4:00)**  
Clovis Veterans Memorial District  
808 4th Street, Clovis, CA 93612

**Bakersfield, August 21, 2019 (8:30 – 4:00)**  
DoubleTree by Hilton Bakersfield  
3100 Camino Del Rio Court, Bakersfield, CA 93308

These events are educational information-exchange workshop programs about protecting Central Valley drinking water and finding solutions for groundwater contamination, whether naturally occurring or manmade. The target audience for the program includes managers and operators of water supply and treatment systems, local leaders in business and agriculture, civic and community organizations, and decision-makers with responsibility for citizen health and welfare.

Corporate support for these two workshops has funded a limited number of [free registrations](#). These are available for staff of non-profit organizations and community leaders working in “disadvantaged” areas of the Central Valley where there is poor quality drinking water. To register for free, go to [www.agwt.org/events](http://www.agwt.org/events), select Fresno or Bakersfield Workshop, click Register Now and enter your contact information. Under Registration Option, select [General Registration-\\$200](#). Under Payment Method, select [I will send payment](#). An email confirming your complimentary registration will be sent. (no payment required). For further information about this option, call 800 423 7748 (8:30am – 4:30pm EST).

The American Ground Water Trust has completed over a dozen information exchange workshops throughout the US (CA, AZ, NV, NE, MI, OH, PA, NJ, NH, NM) about groundwater quality challenges; including focus on nitrate, Chrome 6, perchlorate, TCP, and the PFAS suite of compounds.

## Continuing Education

Application submitted to State of CA for Drinking Water Operators for Contact Hours  
The AGWT will issue Certificates of Attendance for engineers and other professions

## What the Fresno and Bakersfield workshops will discuss:

- Overall condition of drinking water quality in Central Valley communities
- Health and economic impacts of inadequate drinking water
- SGMA requirements related to the availability of safe drinking water
- Jurisdictional authority/responsibility for ensuring the availability of safe drinking water
- The natural or anthropogenic origins of chemicals and compounds of concern
- How correct well drilling, construction and monitoring can have a positive impact on water quality
- Water quality testing capabilities and the interpretation of test results
- Water quality treatment technologies, how they work and what they cost
- Legal remedies for recovering treatment costs by communities, utilities and water agencies
- How to find funding for capital investment in water infrastructure improvements
- Case studies of contamination reduction/ removal

### BACKGROUND:

The motivation for this workshop is the AGWT's education mission to provide objective information to facilitate groundwater management decisions. Water providers are faced with an urgent need to respond to concerns about health issues, property values, remediation options and infrastructure costs related to the occurrence of contamination in drinking water sources.

The workshop will provide transparency in information with free exchange of legal, hydrological, regulatory and technical opinions. There are major challenges faced by individuals and communities, local and state agencies and potential responsible parties. Principal workshop objectives are to assess the magnitude of the problem, the technology available to treat affected wells, the need for additional regulations and to determine effective ways to cover remediation and compensation costs for those affected by poor quality drinking water.

### PARTICIPATION:

The program is of particular relevance to water utility managers and their board members in areas affected (or potentially affected) by contamination. It is anticipated that workshop attendance will also include, environmental organizations, property transaction specialists, health officials, groundwater industry professionals, water engineers and entities with regulatory authority at city, county, state, and federal level.

### FORMAT:

The workshop will be strictly conducted in a non-confrontational and non-commercial information-exchange format. Presenters include scientists, water providers, water regulators, attorneys, and equipment manufacturers. Following each presentation there will be time for Q&A among all participants. All presenters have been asked to provide information, advice, guidance and insight in an inclusive, generic and non-commercial information-exchange format.

**PROGRAM:**

7:30 – 8:30

REGISTRATION

8:30 – 8:45

THE CHALLENGE OF INCREASING AWARENES OF TECHNICAL SOLUTIONS TO WATER QUALITY

Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

8:45 – 9:15

PERSPECTIVE ON CENTRAL VALLEY DRINKING WATER QUALITY

Thomas C. Esqueda, Associate Vice President for Water and Sustainability, Jordan Agricultural Research Center, Fresno State University, Fresno, CA

9:15 – 9:45

ROLE OF COMMUNITIES IN ASSISTING WITH DRINKING WATER SOLUTIONS

Amanda Monaco, JD, Policy Coordinator - Water Programs, Leadership Counsel for Justice and Accountability, Fresno, CA

9:45 – 10:15

REGULATIONS IMPACTING DRINKING WATER SUPPLY IN THE CENTRAL VALLEY

Tricia Wathen, PE, Regional Engineer, SWRCB, Division of Drinking Water District 12 (Visalia) Fresno, CA

10:15 – 10:35

BREAK

10:35 – 11:05

CONTAMINANT WATER TESTING METHODS AND PROTOCOLS – HOW TO INTERPRET THE TEST RESULTS

Martha Maier, Laboratory Director, Vista Analytical Laboratory, El Dorado Hills, CA

11:05 – 11:35

HOW WELL DESIGN AND CONSTRUCTION CAN INFLUENCE WATER QUALITY

Chris Johnson, PG, CHG, Founder and Principal Hydrogeologist, AEGIS, Fresno, CA

11:35 – 12:10

ION EXCHANGE TREATMENT FOR NITRATE, CHROME VI, URANIUM, PFAS

Cathy Swanson, Groundwater Remediation Specialist, Purolite Corporation, Fullerton, CA

12:10– 1:10

LUNCH (provided)

1:10 – 1:40

EQUIPMENT AND MEDIA SOLUTIONS FOR TCP, VOC'S, AND PFAS

Kelsey Hakes, Business Development Engineer, AqueoUS Vets, Redding, CA

1:40 – 2:20

THE TREATMENT OF NITRATE AND OTHER CONTAMINANTS IN THE CENTRAL VALLEY

Craig Gorman, PE, Water Process Engineer, Corona Environmental Consulting, Denver, CO

2:20 – 2:50

ACTIVE CONTROL OF THM LEVELS IN DRINKING WATER DISTRIBUTION SYSTEMS

Ethan Brooke, Senior Product Manager, PAX Water Technologies, Inc., Richmond, CA

2:50 – 3:20

SHIFTING CONTAMINATION COSTS FROM RATE PAYERS TO POLLUTERS

Ken Sansone, Partner, SL Environmental Law Group PC, San Francisco, CA

3:20 – 3:50

WHERE WILL THE MONEY COME FROM? - HOW THE PRIVATE SECTOR CAN HELP

Frank J. Gill IV, Sr. Vice President, Holman Capital Corporation, Laguna Hills, CA

3:50 – 4:00

WRAP-UP and FINAL Q & A

**EVENT SPONSORS:**



To sponsor or exhibit at this workshop – call 800-423-7748 or visit our website at [www.agwt.org/events](http://www.agwt.org/events).

Fresno, CA – Tuesday, August 20th

Bakersfield, CA – Wednesday, August 21st

### Central Valley Drinking Water Workshop

**WORKSHOP REGISTRATION: Register on-line at [www.agwt.org/events](http://www.agwt.org/events)**

Registration includes handouts, coffee break & lunch

**Aug 20 Fresno  or Aug 21 Bakersfield**

Registration includes handouts, coffee break & lunch

- General Registration **\$200**
- AGWT Corp Member Employee **\$175**
- Full-time Student (ID required) **\$ 80**
- PDF - Workshop presentations \$ 30**   
(Attendee price)
- Exhibit Table (registration required) \$250**

**Event Sponsor:** \$1,000 and above sponsors have the option of an exhibit table  
(See our website Exhibit & Sponsorship Information for more details).

**\$2,000  \$1,000  \$500  \$250**

(\$1K and above, please indicate if you plan to exhibit: YES  NO

**TOTAL \$ \_\_\_\_\_**

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**Payment Information:**

**CHECK** [payable to: AGWT]       **AMEX/VISA/MC/Discover**       **PO #** \_\_\_\_\_

**AMOUNT AUTHORIZED \$** \_\_\_\_\_

Name on Card \_\_\_\_\_

Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_

Cardholder Email \_\_\_\_\_

Company Name \_\_\_\_\_

Attendee Name \_\_\_\_\_

Attendee Email \_\_\_\_\_

Position/ Job Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

**REGISTER ONLINE:**  
[agwt.org/events](http://agwt.org/events)

**MAIL TO:**  
American Ground Water Trust  
50 Pleasant Street, Suite 2  
Concord, NH 03301-4073

**FAX:** (603) 228-6557

**TEL:** (603) 228-5444

**? QUESTIONS:**  
(800) 423-7748  
9:00-4:00pm (Eastern Time)

