

# EMERGING GROUNDWATER CONTAMINANT SOLUTIONS

Focus on:

## Perfluorochemicals, and 1,2,3-Trichloropropane

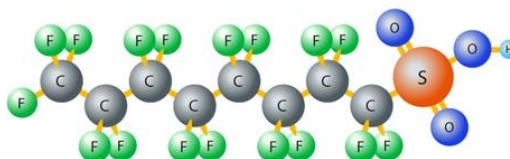
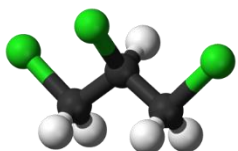
### Problem assessment and treatment strategies

An educational information-exchange workshop program from the American Ground Water Trust

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

Hosted by Chino Basin Water Conservation District - 4594 San Bernardino St., Montclair, CA 91763

Wednesday March 21st, 2018



### What the program will discuss:

- Legal basis for regulatory intervention
- Increased sophistication of water quality testing
- Costs of installation and operation of treatment technologies
- Economic impacts on impacted groundwater end-users & utilities
- Extent of groundwater contamination by PFCS & TCP in California
- Summary of latest research findings on health and environmental impacts
- Legal remedies for recovering treatment costs by utilities and water agencies
- Case studies of contamination reduction/ removal that have resulted in wells being put back on-line

### BACKGROUND:

The motivation for this workshop is the AGWT's education mission to provide objective information to facilitate groundwater management decisions. Emerging contaminants such as the suite of PFCS compounds and 1,2,3 -TCP represent challenges for dealing with legacy groundwater contamination. 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 these compounds.

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. A principal workshop objective is 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 these legacy issues.

### 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.

### PRESENTERS:

All presenters have been asked to provide information, advice, guidance and insight in an inclusive, generic and non-commercial information-exchange format.



**7:15 – 8:15 REGISTRATION**

**8:15 - 8:30**

**INTRODUCTION: THERE IS A LITTLE BIT OF SOMETHING IN EVERYTHING**

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

**8:30 – 9:00**

**CALIFORNIA'S GROUNDWATER: WHERE DO THE COMPOUNDS COME FROM? AN ASSESSMENT OF THE EMERGING CONTAMINANT ISSUE**

Anthony Brown, CEO, Aquilogic, Costa Mesa, CA

**9:00 – 9:30**

**CALIFORNIA'S REGULATORY RESPONSE TO GROWING EVIDENCE OF THE OCCURRENCE OF "EMERGING CONTAMINANTS" IN GROUNDWATER**

CA State Water Resource Control Board, Division of Drinking Water, (invited)

**9:30 – 10:00**

**LABORATORY TESTING METHODS FOR CALIFORNIA'S EMERGING CONTAMINANTS: WHAT THE RESULTS SHOW ON A REGIONAL BASIS**

Rick Zimmer, Senior Account Manager, Eurofins Eaton Analytical, Monrovia, CA

**10:00 – 10:30 BREAK**

**10:30 – 11:00**

**LOCAL GOVERNMENT PERSPECTIVE: RESPONDING TO TCP REGULATIONS AND TREATMENT IMPLEMENTATION**

Eunice Ulloa, Mayor, City of Chino, Chino, CA

**11:00 – 11:30**

**WATER UTILITY PERSPECTIVE: SERVING CUSTOMERS BY PROACTIVE RESPONSE TO EMERGING WATER QUALITY CONCERNS**

Denise Kruger, Sr. Vice President Regulated Utilities, Golden State Water Company, San Dimas, CA

**11:30 – 12:00**

**REMOVING PFC & TCP COMPOUNDS FROM SOURCE WATER: CHEMICAL PRINCIPLES OF HOW TREATMENT EQUIPMENT WORKS**

Catherine Swanson, Business Development Manager, Evoqua Water Technologies, Fullerton, CA

**12:00 – 1:00 LUNCH**

(No formal afternoon break – coffee & snacks available all afternoon)

**1:00 – 1:30**

**PERSPECTIVE ACROSS AMERICA: EMERGING CONTAMINANTS IN SOURCE WATER – HOW BIG IS THE PROBLEM?**

Dr. Chad Seidel, Vice President, Corona Environmental Consulting, Boulder, CO

**1:30 – 2:00**

**SOLUTIONS TO PFC CONTAMINATION IN COLORADO: PROBLEM ASSESSMENT, REMEDIATION DESIGN, INSTALLATION AND OPERATION**

Kirk Medina, District Manager, Stratmoor Hills Water & Sanitation District, Colorado Springs, CO

**2:00 – 2:30**

**DESIGNING TREATMENT SYSTEMS FOR PFC AND TCP**

Dr. Chad Seidel, Vice President, Corona Environmental Consulting, Boulder, CO

**2:30 – 3:00**

**LONG TERM MARKET POTENTIAL FOR GROUNDWATER REMEDIATION AND TREATMENT SERVICES IN THE US**

Jeff McDonough, Principal Engineer, Arcadis, Philadelphia, PA

**3:00 – 3:45**

**HOW TO PAY FOR GROUNDWATER TREATMENT AND REMEDIATION**

- Navigating the regulatory and political challenges in emerging contaminants: Maywood Case Study  
Maria Elena Kennedy, Kennedy Communications, Rancho Cucamonga, CA
- Go the litigation route:  
Bill Kelly, SL Environmental, San Francisco, CA

3:45 – 4:00

**WRAP UP – CONCLUDING REMARKS: WHAT’S NEXT IN UNREGULATED CONTAMINATED MONITORING IN CALIFORNIA**

**4:00 ADJOURN**

**↓ Scroll down for registration information ↓**

**AMERICAN GROUND WATER TRUST** (Non-profit education organization)

*Groundwater Information, Awareness & Education Since 1986..... This is what we do:*



- ~ Promote efficient and effective groundwater management
- ~ Communicate the environmental and economic value of groundwater
- ~ Showcase groundwater science and technology solutions
- ~ Increase citizen, community and decision-maker awareness
- ~ Facilitate stakeholder participation in water resource decisions



**↓ Scroll down for registration information ↓**

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**EMERGING GROUNDWATER CONTAMINANT SOLUTIONS WORKSHOP**

**Chino Basin Water Conservation District, 4594 San Bernardino Street, Montclair, CA 91763  
March 21, 2018 – 8:15am-4:00pm**

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

General Registration **\$200**   
AGWT Corp Member employees **\$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 website Exhibit & Sponsorship Information for more details).

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

Please indicate if you plan to exhibit: YES  NO

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

Registration includes handouts, coffee break & lunch

**Payment Information:**

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

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

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

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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)