

Regulation of Cannabis Cultivation: Impact on the Environment and Personnel



7.5 REHS Contact Hours
And
7.5 CACEO CEUs
Included

May 30, 2019

Ironstone Vineyards
894 6 Mile Road
Murphys, CA

About the Workshop

Why is this workshop needed?

There is a need for clear, objective information about environmental and safety issues associated with regulated and unregulated/black market cultivation of cannabis. Inspectors are concerned about their safety and the protective equipment needed when they inspect regulated and unregulated sites. Community members frequently raise issues of environmental impacts associated with regulated and unregulated sites. There is a lack of clear information about the status of the state's emerging regulatory program. Policy makers need objective information and dialogue with subject matter experts in order to formulate regulations pertaining to cannabis cultivation.

Who is the intended audience?

The intended audience for this workshop is policy makers, regulators, law enforcement officers, public health professionals, and community members that seek clear, objective information about the impact of regulated and unregulated/black market cannabis cultivation.

What information will be presented?

Dr. Gabriel will share the results of his extensive investigations into the environmental and ecological impacts of unregulated/black market grows.

Ms. Chavez, Ms. Amodeo, Mr. Perea, Mr. Cervantes, and Mr. Stoner will share information about how cannabis cultivation is regulated at the state level and the status of regulation state regulatory activities at this time, along with a discussion of the current issues and challenges being experienced by state regulators.

Ms. Brady will share the industry's perspective and describe how cannabis can be cultivated in a safe manner within the current regulatory framework.

Dr. Butsic will share issues, challenges, and opportunities associated with cannabis regulation from a broader public policy perspective.

Questions and Answers in Depth by Panel

Mr. Malan will facilitate an extend period of Q&A for the benefit all those present at the workshop. Throughout the workshop, attendees will be encouraged to write their questions and issues of concern on sheets of paper that will be available at each table. The panel, composed of all of the speakers, will address the questions and issues raised in a dialogue format from each of their perspectives. In addition, the panel will be asked to share best practices for inspector and worker safety at regulated cultivation sites.

Side (Vendor-Type) Display Tables

Display tables will be provided by the State Water Resources Control Board, California Department of Fish and Wildlife, and the Sonoma County Growers Alliance.



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Agenda

Ironstone Winery, Murphys California
May 30, 2019

- 8:00 a.m. **Registration**
- 8:30 a.m. **Impact of Unregulated Grows on the Living Environment**
Mourad Gabriel, Ph.D., Co-Director, Integral Ecology Research Center
- 10:30 a.m. **Break**
- 10:45 a.m. **Status Update on Regulation of Cannabis Cultivation**
Tabatha Chavez, Assistant Chief, Compliance and Enforcement
California Department of Food and Agriculture
- Noon **Lunch**
- 12:45 p.m. **Status Update on Regulation of Cannabis Cultivation**
Kelly Amodeo, Cannabis Environmental Scientist
California Department of Pesticide Regulation
Griffin Perea, P.G., Program Manager, Cannabis Regulatory Program
Central Valley Regional Water Quality Control Board
-and-
Roberto Cervantes, P.E., Senior Engineer
California Water Quality Control Board
- 2:15 p.m. **Break**
- 2:30 p.m. **Cannabis, Regulate and Revitalize**
Shivawn Brady, Vice President, Regulatory Affairs
Sonoma County Growers Alliance
- 3:00 p.m. **Impact of Legalization & Regulation of Cannabis**
Van Butsic, Ph.D., Berkeley Dept. of Env. Science, Policy & Management
- 4:00 p.m. **Panel: Questions and Answers**
Facilitator: Justin Malan, Executive Director, California Conference of Directors of Environmental Health
Mourad Gabriel, Ph.D., Integral Ecology Research Center
Van Butsic, Ph.D., Berkeley Dept. of Env. Science, Policy & Management
Shivawn Brady, Sonoma County Growers Alliance
Robert Cervantes, P.E., California Water Resources Control Board
Griffin Perea, Central Valley Regional Water Quality Control Board
Kyle Stoner, California Fish and Wildlife
Tabatha Chavez, California Department of Food and Agriculture
Kelly Amodeo, Department of Pesticide Regulation
- 5:00 p.m. **Adjourn**

Speaker Biographies

(Shown in the order presented on the agenda)

Kelly Amodeo, is an Environmental Scientist at the Department of Pesticide Regulation specializing in cannabis integration. She is focused on mitigating risk associated with pesticide use in the cannabis industry and educating growers on worker health and safety concerns and regulation. She started work at the Department of Pesticide Regulation with the Environmental Monitoring Branch before transferring to the cannabis team. She earned her B.S. in Environmental Toxicology from UC Davis with an emphasis in NeuroToxicology and worked in the Pam Lein Lab studying the effect of PCB on neurodevelopment.

Shivawn Brady, is the Vice President of Regulatory Affairs at Justice Grown, serves on the Sonoma County Cannabis Advisory Committee, is a board member with the Sonoma County Growers Alliance, and she is the social media manager for the Sonoma County Americans for Safe Access chapter. She has been a cannabis policy advocate and spokesperson in California since 2011 and holds an industrial hemp license in North Carolina. Her unique expertise has supported medical cannabis growers, business owners, and investors in making efficient and practical business decisions for over a decade. As the northern California regional production manager for two of the largest and earliest dispensaries in California she has been featured on the cover of Marijuana Ventures June 2018 issue of top 40 under 40 Rising Stars in the Cannabis Industry and has been interviewed by news and entertainment publications such as; KRON 4 News, the Independent UK, DopeMagazine, GrowerTalks, North Bay Bohemian, The Discovery Channel and The Press Democrat. She was a guest speaker at the 5th and 6th Annual Marijuana Business Conference & Expo in Las Vegas and Florida. She provides cannabis consulting services nationwide.

Robert Cervantes, P.E., is a senior engineer with the State Water Resources Control Board's Division of Water Rights where he leads a Cannabis Enforcement team and recently managed the Cannabis Registration program. Robert has 17 years of engineering experience in both the public and private sectors ranging in scope from infrastructure design, construction and maintenance, hazardous waste site remediation, and water rights regulatory oversight.

Tabatha Chavez, is the Assistant Chief with the Compliance and Enforcement Branch of the California Department of Food and Agriculture's CalCannabis Cultivation Licensing Division. Tabatha oversees inspection and investigation of state licensed cannabis cultivators, and the California Cannabis Track-and-Trace system. She spent ten years with the California Beverage Container Recycling Program in several capacities, most recently as a Senior Management Auditor where she implemented statewide technical assistance and compliance program, that included investigations, license revocation and prosecutions of system fraud. Prior to her tenure with CalRecycle, Tabatha served ten years with the California Conservation Corps conducting emergency response and public service conservation activities with participation in administrative and health and safety investigations, budgetary, policy, and legislative functions.

Justin Malan, Justin Malan since 1994 has been an environmental consultant, serving as Executive Director to several associations including the California Conference of Directors of Environmental Health (CCDEH), the California Ocean Science Trust and the California Aquaculture Association. In this capacity Justin has worked extensively with the California Legislature, public interest groups and state regulatory agencies and has served on numerous state-wide committees and task-forces dealing with a wide array of resource management and environmental health issues. Justin's firm, Ecoconsult, currently has a diverse group of "green" clients including CCDEH, US Green Building Council-California, StopWaste.Org, California Compost Coalition, California Climate and Agriculture Network, Community Alliance with Family Farmers, CYRQ Energy, and CERES. Justin graduated from the University of Cape Town with a Bachelor's Degree in Law and Public Administration and a Master's Degree in Environmental Studies.

Mourad Gabriel, M.S., Ph.D., co-founded IERC with Greta Wengert in 2004. Mourad earned his B.S. in Wildlife Biology at Humboldt State University, his M.S. in Wildlife Ecology at Humboldt State University, and his Ph.D. in Comparative Pathology (emphasis on wildlife disease ecology) at the University of California Davis, School of Veterinary Medicine. Dr. Gabriel is also a Research Associate Faculty at the One Health Institute, Wildlife Health Center at the University of California Davis, School of Veterinary Medicine.

Griffin Perea, P.G., began work at the Central Valley Regional Water Quality Control Board in the Forest Activities Program in 2013 and in 2015 moved into the Cannabis Cultivation Waste Discharge Regulatory Program. He was promoted to Senior Engineering Geologist for the Regional Board in 2016, and is tasked as the Program Manager for the Central Valley Water Boards Cannabis Regulatory Program as well as overseeing cannabis related enforcement efforts out of the Board's Redding office. Prior to working at the Regional Board, Griffin worked as a geologist on remediation of contaminated groundwater from underground storage tanks for a private consulting firm and he worked on large scale construction projects and drilling projects while employed with the Bureau of Reclamation. He has a Bachelor of Science Degree in Geology from the California State University, Chico.

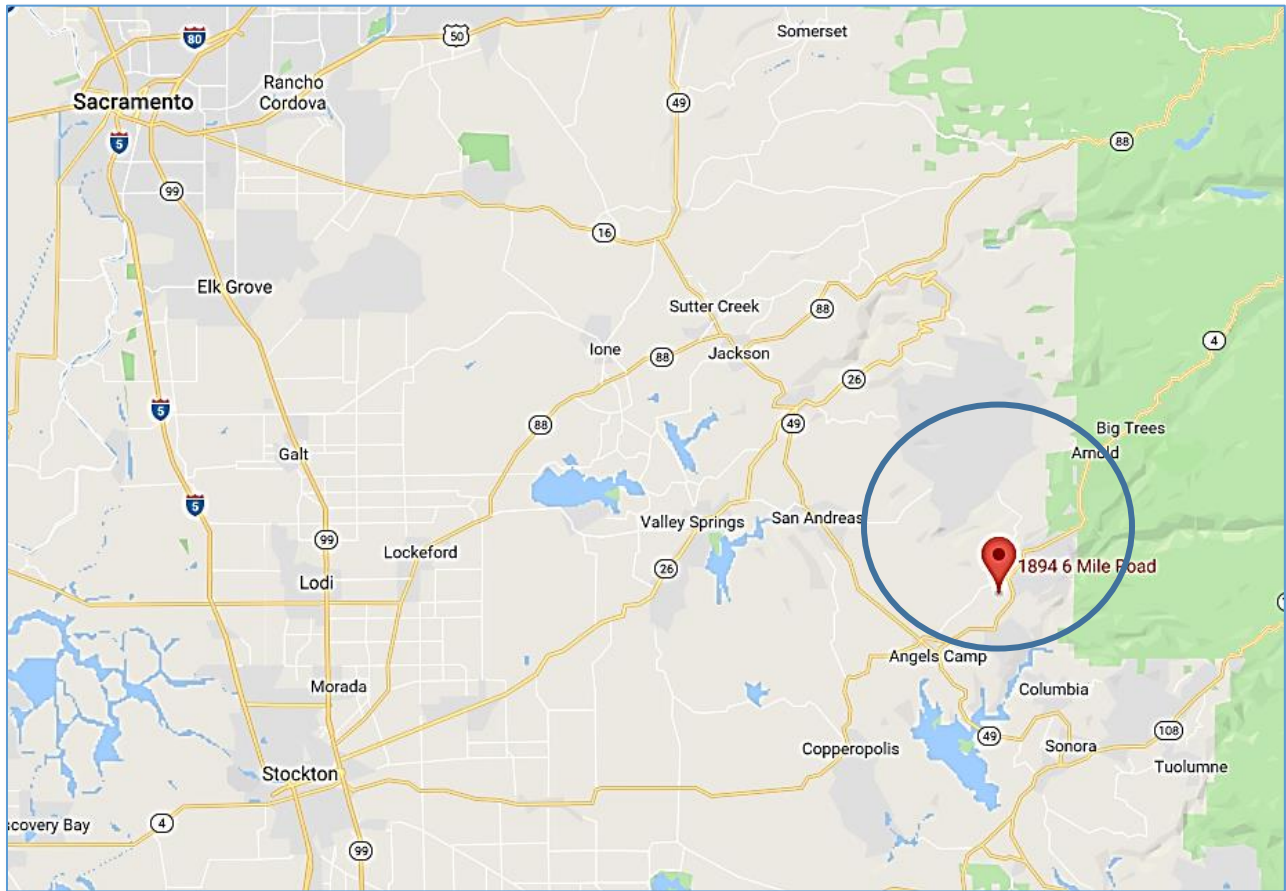
Kyle Stoner, M.S., is a Senior Environmental Scientist at the Department of Fish and Wildlife and is responsible for permitting and environmental review of cannabis cultivation and licensing projects in 17 counties within the North Central Region of the state. He has a Bachelor's Degree in Environmental Science, Technology, and Policy, with a concentration in Watershed Systems, and Master's Degree in Coastal and Watershed Science and Policy, both from CSU, Monterey Bay.

Van Butsic, Ph.D., is an Assistant Cooperative Extension Specialist and Adjunct Professor at UC Berkeley in the Department of Environmental Science Policy and Management where he conducts research on land system science, fire and forest policy, land use planning and Cannabis. Dr. Butsic is the co-director of the Center for Cannabis Research at UC Berkeley where he works with an interdisciplinary team to conduct research on cannabis policy, communities and the environment. He holds a PhD in Forestry and MS in Agricultural and Applied Economics both from the University of Wisconsin - Madison, and a BA in economics from Reed College.



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Location



Accommodations

Murphys Suites

134 CA-4, Murphys; (209) 728-2121

Room rate: \$90.00

Bank of 25 rooms reserved through April 14 for nights of May 29 and May 30

Murphys Inn Motel

76 Main St, Murphys; (209) 728-1818

Room rate: \$100.80

Bank of 25 rooms reserved through April 14 for nights of May 29 and May 30

Further Assistance with Lodging

For assistance in booking lodging, utilize Murphys' new online booking service at:

<https://www.gocalaveras.com/location/places-to-stay/murphys-lodging/>



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Registration Information

Fee: Registration before May 15: **\$75**
Registration after May 15: **\$100**
Included: Continental breakfast, lunch, and afternoon snacks, plus REHS contact hours

Payment: There are two alternatives for paying the registration fee:
(1) Check: Mail a check payable to: [California Association of Environmental Health Administrators, PO Box 2017, Cameron Park, CA, 95682](#)
(2) Online Payment: Log on and pay at www.ccdeh.com

Mail: Complete the registration form below and send it to:

Sheryl Baldwin
CAEHA
Post Office Box 2017
Cameron Park, CA, 95682
sheryl@ccdeh.com

Questions: For questions about payment of fees or other aspects of the workshop, contact Brad Banner at (209) 754-6632, or send him an email at bbanner@co.calaveras.ca.gov.

Please complete this registration form and remit with payment to CAEHA for each person attending the workshop from your agency or business no later than May 15, 2019.

Attendee:

Name

7.5 REHS
Contact
Hours
Included

Address

City

Zip

Telephone

Email (print clearly!)

Company/Agency: _____

Payment Type:

☐ Online

☐ Check

Are you an REHS?

☐ No

☐ Yes, Registration #: _____

Are you a CACEO member?

☐ No

☐ Yes

Comments: _____