

The workshop ranges across engineering, planning, operational, legal, and political realms and includes academics, professionals, technicians, decision makers, and regulated and regulatory communities. The scope is introductory, conceptual, and interactive, and covers basic TMDL program information, technical approaches, example applications of these approaches, hands-on TMDL problem-solving, emerging legal and technical concerns, and opportunities for cooperation and collaboration. Workshop co-sponsored by the:

- **Hawaii Local Technical Assistance Program (LTAP), College of Engineering, University of Hawaii**
- **Environmental Health Administration (DOH-EHA), State of Hawaii Department of Health**
- **U.S. Environmental Protection Agency, Region 9 (USEPA-R9)**
- **Water Resources Research Center (WRRC), University of Hawaii**
- **Department of Environmental Services (ENV), City and County of Honolulu,**
- **Department of Transportation, Highways Division (DOT), State of Hawaii**
- **College of Tropical Agriculture and Human Resources (UH-CTAHR), University of Hawaii**

A photograph of a city skyline across a body of water. In the foreground, numerous sailboats are moored along the waterfront. The water is calm, reflecting the sky. The background features a dense urban skyline with several prominent skyscrapers, including a tall, cylindrical building. The sky is overcast and grey.



A 1.5 day water quality training experience for practitioners, policy advisors, decision makers, and concerned citizens.

**October 23-25, 2007
Pagoda Hotel
1525 Rycroft St.
Honolulu, Hawaii**

Workshop Agenda

TIME	TOPIC	PRESENTERS
SESSION I – TUESDAY October 23		
8:30-8:50	Introduction/Overview	Hawaii LTAP, DOH-EHA, USEPA-R9
8:50-9:20	Water Quality Management Planning Provisions under the Clean Water Act	Clark Liu (UH-WRRC)
9:20-10:00	Status and Future Directions for the TMDL Program Nationwide	Paul Freedman (Limno-Tech, Inc.)
10:00-10:20	BREAK	
10:20-11:00	State of Hawaii TMDL Process – Lessons Learned, Current Status & Future Directions	Dave Penn (DOH-EPO), Peter Kozelka (USEPA-R9)
11:00-12:00	Perceptions of the State TMDL Process – Panel of ENV, DOT, DOH-EPO, USEPA-R9 ... with open discussion and Q&A	Paul Freedman - Moderator and Discussant
12:00-1:00	LUNCH	
SESSION II – TUESDAY October 23		
1:00-1:45	Hawaii DOT's Large MS4 - plans for WLA implementation and monitoring	Chin Lien (PB Americas/DOT)
1:45-2:15	Small MS4 Permit Requirements and Challenges for Oahu Commercial Harbors	Randal Leong, HDOT Harbors
1:45-2:15	Small MS4 Permit Requirements and Challenges for Oahu Commercial Airports	Allen Thomas, HDOT Airports
2:15-2:30	BREAK	
2:30-3:00	How does the regulated community participate in the TMDL process?	Erika Powers (Barnes & Thornburg LLP)
3:00-4:30	Putting it all together – TMDL Case Studies from Hawaii (Kaneohe Stream, Oahu) and abroad	Jack Smith (DOH-EPO), Brian Benham, Kevin Brannan, Gene Yagow (Virginia Tech Center for TMDLs)
SESSION III – WEDNESDAY October 24		
8:30-9:15	Understanding and Overcoming Technical Challenges in the TMDL Process/Introduction to group planning exercise	Brian Benham, Kevin Brannan
9:15-10:00	Using stream restoration and watershed stormwater retrofit as an effective means to address TMDLs	Chin Lien (PB Americas/DOT)
10:00-10:15	BREAK	
10:15-12:15	Hands-on group planning exercise (Practicum)	Brian Benham, Kevin Brannan, Russ Yost (UH-CTAHR)
END OF WORKSHOP		
THURSDAY October 25 – MSB 114, UH Manoa Campus (optional)		
3:00-4:00	UH-WRRC Seminar "Watershed Modeling Approaches for TMDL Development: The Virginia Experience"	Kevin Brannan

DOH-EPO = State of Hawaii Department of Health, Environmental Planning Office
 MS4 = Municipal Separate Storm Sewer System (regulated by NPDES permit)
 NPDES = National Pollutant Discharge Elimination System
 WLA = Waste Load Allocation (implemented via NPDES permit)

Presenters

Clark Liu - Professor of Civil and Environmental Engineering, University of Hawaii.

Paul Freedman - Co-founder and President of LimnoTech, Ann Arbor, Michigan.

Dave Penn - TMDL Coordinator, State of Hawaii Department of Health.

Peter Kozelka - TMDL Program Leader, U.S. Environmental Protection Agency Region 9, San Francisco, California.

Chin Lien - Senior Engineering Manager, PB Americas Inc. (Parsons- Brinckerhoff) Water Service Center, Baltimore, Maryland

Randal Leong - Head, Environmental Section, Harbors Division, Engineering Branch, Department of Transportation, State of Hawaii.

Allen Thomas - Acting head of the Environmental Section for the Airport Division, Engineering Branch, Department of Transportation, State of Hawaii.

Erika Powers - Partner, Barnes & Thornburg LLP, Chicago, Illinois.

Jack Smith - Consultant to the State of Hawaii Department of Health TMDL program.

Brian Benham - Director, Center for TMDL and Watershed Studies and Associate Professor and Extension Specialist, Biological Systems Engineering, Virginia Tech.

Kevin Brannan - Research Associate, Biological Systems Engineering, Virginia Tech.

Gene Yagow - Research Scientist, Biological Systems Engineering, Virginia Tech.

Russ Yost - Professor of Tropical Plant and Soil Sciences, University of Hawaii College of Tropical Agriculture and Human Resources.

Registration- Please fill out this form and return no later than Friday Oct. 12.
Attendance is limited. Lunch/parking is provided on day 1. On day 2 parking will cost \$3 upon exiting with validation.

Name: _____

Address: _____

City: _____

ZIP: _____

Affiliation: _____

email: _____

Fees (check one box):

☐ **Day 1 - \$50 Includes lunch.**

☐ **Day 2 - \$25 No lunch (ends at 12:15).**

☐ **Both days - \$75.**

For more information contact Gail Ikeda at 956-8367 or gail@eng.hawaii.edu

Please make checks payable to the Research Corporation of the University of Hawaii (RCUH) and mail with this form to:

**Hawaii LTAP
 University of Hawaii
 Holmes Hall 383
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