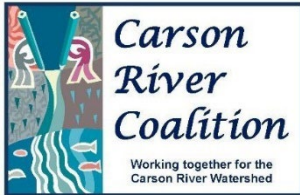


CRC Floodplain Management Working Group

Meeting Notes

Wednesday, October 22, 2025

1:30 -3:30pm



Attendees:

First	Last	Title	Acronym	Organization
Taylor	Allison	Emergency/Communications Manager	Lyon	Lyon Co. Emergency Mgmt
Jon	Bakkedahl	Deputy Emergency Manager	CC	Carson City Fire Dept
Rob	Beltramo	Tribal Planner	Washoe	Washoe Tribe of Nevada and California
Mitch	Blum	Professional Engineer, Cert. Floodplain Mgr.	HDR	HDR, Inc.
Kristina	Burnette	Environmental Scientist	WEPD	Washoe Environmental Protection Dept.
Kathy	Canfield	Planning Manager, AICP	Storey	Storey County Planning Dept.
Lisa	Christiansen	Project Manager	WTNC	Washoe Preparedness Resource Dept.
Katie	Clancey	Civil Engineer, Special Studies Division	BOR	Bureau of Reclamation
Daniel	Conley	Risk Analyst	FEMA	FEMA Region IX Mitigation Division
Ron	Coupland	Stormwater Engineering Project Manager	W&C	Wilson & Company
Tom	Dallaire	Director	DC	Douglas Co. Community Development
Tanner	Dye	Emergency Management Coordinator	DC	Douglas Co. Emergency Mgmt.
Kara	Easton	Emergency Manager	DC	Douglas County
Sarah	Fichtner	Floodplain Mapping Coordinator	NDWR	NV Division of Water Resources
Katie	Hay	Stormwater Technician	DC	Douglas Co. Stormwater
Brenda	Hunt	Watershed Program Manager	CWSD	Carson Water Subconservancy Dist.
Jeremy	Hutchings	County Engineer	DC	Douglas Co. Community Development
Ed	James	General Manager, PE	CWSD	Carson Water Subconservancy District
Bella	Kurtz	Headwaters Coordinator	AWG	Alpine Watershed Group
Lori	Leonard	River Fork Ranch Preserve Manager	TNC	The Nature Conservancy
Marennna	Lovejoy	Sr. Natural Resource Specialist	CCPROS	Carson City Parks, Rec & Open Space
Lindsay	Marsh	Water Resource Specialist 1	CWSD	Carson Water Subconservancy District
Lisa	Nash	Senior Planner	Lyon	Lyon County Community Development
Debbie	Neddenriep	Water Resource Specialist 2, CFM	CWSD	Carson Water Subconservancy District
Kelly	Nicholas	Senior Watershed Clerk	CWSD	Carson Water Subconservancy District
Dean	Patterson	Senior Planner	Church	Churchill Co. Public Works
Karin	Peternel	Carson City Stormwater Manager	CCPW	Carson City Public Works
Hari	Raghavan	Senior Water Resources Technologist	W&C	Wilson & Company
Rachel	Schmidt	Conservation Technician	DVCD	Dayton Valley Conservation District
Eric	Simmons	Senior Engineer, CFM	HDR	HDR, Inc.
Amanda	Singleton	Assistant Project Manager	CCPW	Carson City Public Works
Christy	Sullivan	District Clerk	LVCD	Lahontan Valley Conservation District
Sherman	Swanson	UNR Professor, retired	C&C	Nevada Creeks and Communities
Courtney	Walker	Stormwater Program Manager	DC	Douglas County Public Works
John	Warpeha	Environmental Scientist	WEPD	Washoe Environmental Protection Dept.
Rich	Wilkinson	Manager	CVCD	Carson Valley Conservation District

Presentation by Wilson & Company: [Ron Coupland](#) and [Hari Raghavan](#) from Wilson & Co. in Phoenix presented their work on an alluvial fan physical map revision of the flood insurance rate map for the City of Pahrump in Nye Co. The area floods every two-five years, which prompted their study. Primary flooding sources are the Wheeler Wash and roads that become de facto water channels. They used FLO-2D for their models and created 10 maps for their study area. The study area incorporates two alluvial fans, but only one was used for the study. The package has been provided to the county. See slides for presentation and chat for version incompatibility question and answers.

River projects and program updates:

Rich Wilkinson, CVCD – Have worked extensively in Genoa; CVCD over the last five years has identified 13 locations for bank stabilization. Focused on that area because NDEP identified that area as impaired. All but five of those projects have been completed. Three projects were started this year and he expects to have them finished up by next month; the in-channel work has been completed and bioengineering remains. Three more projects are in the permitting stage; there has been some confusion as to whether they can work under a nationwide permit. This has led to a process change; they now submit a pre-construction notification, which allows them to work directly with USACE staff to determine if they need a nationwide permit or letter of permission.

Christy Sullivan, LVCD – They have been working with TCID on clearing and snagging, removing trees near bridges up to 200 ft.; they are interfering with the river flow. Addressing debris on or by bridges, especially the Bafford bridge; debris clogs the bridge. The increase is attributed to an increased homeless presence with both trash and log moving.

Bella Kurtz, AWG – West Fork Carson Prioritization Plan is getting stakeholder analysis feedback. Design is moving forward on Willow Creek, Red Lake Creek projects, which is part of Phase 2. Hope Valley restoration aquatic habitat enhancement has stalled because of needed permits. For Markleeville Creek restoration, will be finished in 2026. The Markleeville public utility district portion is wrapping up; Meyers is trying to finish before winter, while AWG's floodplain project got a variance so they can wrap it up this week. Weather depending, they may be able to get an additional variance to remove the west flood wall. Next year the parking lot will be done in the spring. The ["Build Like a Beaver"](#) program recently held in Faith Valley reported six BDAs repaired and three additional built.

Denver Workshop: Integrating Natural Hazard Mitigation and Clean Water Act Planning and Project Implementation – Really great workshop.

Taylor Allison, Lyon – Biggest takeaway was the nexus between the hazard mitigation plan and other required plans that focus on similar things – comprehensive land use planning, floodplain management plan, etc. How can we reduce redundancies and focus on solutions? There's a lot of funding mechanisms for each of those spaces. Some tools that came out of the workshop include the [River Network](#) and the Colorado Healthy Rivers Plan (<https://cwcb.colorado.gov/colorado-water-plan>, <https://cwcb.colorado.gov/colorado-healthy-rivers-fund>); these incorporate a nexus model where the plans integrated to help map funding sources for each one's components. This has been shared with the NV OEM to see if Nevada can model it as FEMA funding streams are restructured. The Mile High Flood Control District also hosted a tour of a flood control project that incorporated nature-based solutions.

Karin Peternel, CCPW – Montana seemed to be way ahead in terms of funding and flood regulations. She'd like to invite them to present on lessons learned. One tactic the workshop used was grouping everyone by regions to get the perspectives of different states and lessons learned. Good relationship-building opportunity.

Brenda Hunt, CWSD – The mobile workshop was very high-level; the Mile High Flood Control District moved two miles of river because the wash was in residents' backyards. They excavated; they created a new train station; and there are parks and trails and a nature playground for STEM interaction; the process has created a better neighborhood and is better for the environment. It was very beautiful and appeared to be in a lower-income neighborhood, so having the transportation corridors available was amazing. One of the takeaways was that they talked about the project but not the process of how they got there; she hopes that will be presented in the future.

-- Debbie mentioned that Arizona has a statewide flood control district fund that provides match and seed money for projects. In Mojave County specifically they have built three large basins to infiltrate recharge. Both they and Montana have heavy support from federal delegations.

Round Robin Updates:

Lori Leonard, TNC – There have been a lot of native tree and shrub plantings at the River Fork Ranch preserve

Kathy Canfield, Storey – There will be an emergency flood exercise in Lockwood 12/13, and an exercise 12/12 at Lockwood Elementary. 11/12 there will be a town hall meeting about sheltering in place. There will be two emergency prep workshops, one this spring in Mark Twain and a summer one in the VC Highlands.

John Warpeha, WEPD – Implementing EPA 319 funding by stabilizing 623 feet of streambank; they also have BIA funds for addressing tamarisk and Russian olive near the WEPD facility. Working on aquatic invasives w/USFW. Cale Pete is the new WEPD Executive Director.

Katie Hay, DC – Stormwater Utility will host its annual Flood Awareness Week event 11/13 at the Community Center.

Courtney Walker, DC – She has been doing community presentations, which have been well received. Flooding in Ruhenstroth has kept Public Works busy. Board meeting is 11/20.

Tom Dallaire, DC – There will be a presentation on the Ruhenstroth event 11/6; the root cause was the June Connor Fire in the Pine Nuts.

Marena Lovejoy, CCPROS – Carson City has entered the writing phase of its river master plan. Still permitting on the Mexican Dam portage; work will hopefully begin this fall. Marena has been installing riparian plants. CCPROS has hired PT staff to inventory cottonwoods, especially recruitment and beaver damage.

Mitch Blum, HDR – Eric Simmons started working at HDR.

Lisa Christiansen, WTNC – FEMA reached out re: WTNC's hazard mitigation plan. The focus will be on Alpine Co. with a community resiliency center.

Amanda Singleton, CCPW – Two projects are in design phase.

Karin Peternel, CCPW – FAW proclamation will be issued 11/6. They never received a letter re: their CRS submittal. Brenda – the CC planning manual requires LID but for large new parcels, not retrofitting existing residences.

Jon Bakkedahl, CC – Could use CWSD's help organizing public comment for the entire month of December between Thanksgiving and Christmas

Taylor Allison, Lyon – Wants to incorporate Ready Set Go into county materials/programs

Dean Patterson, Church – News needed on their floodplain remapping. Advised to talk to Zach, Daniel Conley with FEMA.

Sherm Swanson, C&C – Creeks & Communities will host a Zoom webinar Proper Functioning Condition workshop starting Feb. 16, 2026. Contact him for more details and to sign up.

Brenda Hunt, CWSD – Last week she went to a [DRI collaborative for wildfire](#).

Nevada Division of Water Resources Updates (Sarah Fichtner, DWR) –

Floodplain Management/NFIP – NFIP lapsed with the shutdown but may come back. CTP grants have not been renewed. State program lost one flooding position.

Silver Jackets and FAW Outreach - For FAW they have increased radio messaging re: preparedness. Messaging is also in a variety of newspapers and billboards in Elko and Washoe counties. They are using new art for social media and are running a reel with featuring building a preparedness kit. Next FACT (Flood Awareness Communications Team) meeting is first week of November.

Next Watershed University will be held spring 2026; can use topic suggestions.

Other upcoming outreach:

Saturday, October 25, 2025	Fall Volunteer Celebration	CCPROS	Silver Saddle Ranch / Or Community Center
Tuesday, October 28, 2025	Fall Work Day	Riverview ES	Dayton State Park
Wednesday, October 29, 2025	Dayton ES 4th grade	CCRWD	Dayton State Park
Thursday, October 30, 2025	Flood Outreach	Boonanza	Mills Park
Thursday, October 30, 2025	Flood Outreach	Boonanza*	Mills Park, CC
Friday, November 7, 2025	Flood Outreach	Montessorrie	Boys & Girls Club, CC
Wednesday, December 3, 2025	Flood Outreach	St. Teresa	Carson City

Grant updates not previously mentioned

Watershed Program Updates

QAPP – Brenda, Kelly, Karin and Amanda anticipate going out with NDEP during a sampling run sometime this fall, date TBD. This way we can get an idea of their sites on the ground, protocols, and equipment gaps we may have.

Watershed-Literacy (Re) Survey – Brenda and Kelly have been reviewing the new survey questions. Currently we're concerned about the survey length but we'll find out how long it is during testing. We anticipate it will be administered later this fall.

Ag BMPs through 319

Snapshot Day – It was a successful event on a clear, sunny day with student participation at multiple sites, including Dayton State Park, East Silver Saddle Ranch, and a van of middle school students.

Virtual Fencing workshop and connection to the river and riparian areas – In September Brenda and Kelly attended a virtual fencing workshop in Fallon that outlined how virtual fencing can improve grazing operations. A demonstration of applying collars at Rambling River Ranch followed.

FEMA

COMS 3 – The NOFO is a NO GO. CWSD was slated to receive \$400K; ASFPM has issued a letter to FEMA, but we do not expect we will get funded for this grant.

COMS 2 – Progressing; we asked for September payment, but response came back that payment could not be issued during shutdown.

COMS 1 – closing out. The Floodplain Management Plan has been adopted by all Carson River Watershed counties.

Web-based Flood Hazard Viewer - Update in process:

December 3, 2025: County staff will meet from 10–11 a.m. to ensure the viewer will meet their needs.

January 28, 2025: Flood Hazard Viewer training during FP Mgt Working Group meeting. Come with questions.

OEM grant status - Drought Management, North Dayton Valley BCA

Next Quarterly Meeting (Save the Date): January 28, 2025, 1:30-3:30 pm – Will include a webinar of the Flood Hazard Viewer

Chat (edited):

From Eric Simmons to Everyone: Hi everyone, I'm happy to share that I started this week with HDR. I'm excited to begin this next chapter in water resources and flood risk management. Feel free to reach out at eric.simmons@hdrinc.com.

From Ron Coupland: @Mitch Blum HDR I would suggest directing the question you asked to Jim & Karen O'Brien with FLO-2D and perhaps folks at FCDMC like Kathryn Gross and Bing Zhao will have some good input. However, my thought is that for these models, future use will require using FLO-2D Pro even if there is a newer version of FLO-2D and not only that, but the FLO-2D EXE that we used should be used even 20 years in the future so that the results don't change, unless it is verified that a new EXE doesn't change the results by comparing the runs. For your case with FLO2D v.2009 to FLO-2D Pro conversion, I haven't had to deal with that case yet.

From Mitch Blum HDR: @Ron Coupland Thanks Ron. I just know that some practitioners in this region have had frustrations using Effective FLO-2D models generated in previous versions.

From Ron Coupland: Understood, the version compatibility is an issue. Hopefully FLO-2D Pro will still be robust enough compared to other models in the future so that updating the version won't be necessary.

Other Items of Interest:

[Nevada Nonpoint Source Pollution Reduction 319\(h\) Grant Funding Opportunity](#) – Due Nov. 3, 2025, 5pm.

Applicant Support Webinars

Webinars will be held virtually by BWQP and will cover details of this solicitation. Topics include eligibility, intent, proposal structure, etc. The 2025 GFO webinars will be hosted on:

General GFO Webinar – 10/8/2025 at 9:00 AM PST

General GFO Webinar – 10/15/2025 at 2:00 PM PST

Implementation Proposal Webinar – 10/22/2025 at 9:00 AM PST

Watershed-Based Planning Webinar – 10/29/2025 at 9:00 AM PST

[California Water Boards 2026 NPS Grants](#) – Due Dec. 19, 2025, 5 pm:

The 2026 Nonpoint Source Grant Program Guidelines (Guidelines), posted on the NPS Grant Program website (https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html), describe program preferences, eligibility requirements, application process and instructions, project selection criteria, and the grant award process. Please note one of the minimum eligibility requirements is to consult with the NPS Grant Coordinator in the

corresponding Regional Water Board listed in Appendix 7 of the Guidelines.

Complete proposals are due by 5:00 pm on Friday, December 19, 2025, using the State Water Board's FAAST system at <https://faast.waterboards.ca.gov>.

For questions or comments about the Nonpoint Source Grant Program, please contact the Program at [NPS GRANT Program@waterboards.ca.gov](mailto:NPS_GRANT_Program@waterboards.ca.gov) or (916) 341-5980

Oct. 30, 2025 – [Carson City Boonanza](#) from 4-7pm at Mills Park – 1111 E William St, Carson City, NV 89701

Nov. 20, 2025 ASFPM Arid Regions Committee will discuss policy statement update.

Nov. 12, 2025 Planning Information Exchange Webinar (ASFPM/APA) NWS Presentation about Nationwide Inundation maps

November 9-15, 2025: Flood Awareness Week

November 13, 2025 Douglas County FAW Outreach 3:30 – 5:30 pm

November 13, 2025 Lyon County FAW Outreach 5:30-7:30 pm

February 16- 21, 2026: Sherm Swanson will host Zoom PFC training, contact him to sign up: swanson@unr.edu



AGENDA

Tuesday, September 16, 2025

12:30pm Greetings and opening remarks

Welcome delivered by the National Association of Wetland Managers and the Association of State Floodplain Managers. Time will be set aside to set workshop goals, discuss logistics, and give the cohort a chance to introduce themselves to others.

1:00pm Floodplains, Wetlands, and Green Infrastructure

A key component of nature-based natural hazard mitigation is restoring and/or replicating the functions of naturally occurring ecological resources. This session will focus on the interplay of floodplains and wetlands within a watershed, the benefits they provide for both clean water and hazard mitigation, and how green infrastructure can be used to restore watershed functionality. Case studies will be drawn from Colorado, Montana, and New Mexico.

- Karen Menetrey, Director of Ecological Opportunities, Rio Grande Return
- Becky Pierce, Wetland Program Manager, Colorado Department of Transportation
- Traci Sears, CFM, MT National Flood Insurance Program (NFIP) Coordinator, Montana Department of Natural Resources and Conservation

2:00pm BREAK

2:15pm Integrated Water Quality and Hazard Mitigation Planning

Both hazard mitigation and Clean Water Act programs rely on strong cooperation across multiple levels of government to achieve their goals and outcomes. This session will feature presentations from federal agency professionals representing EPA and USACE discussing their integrated watershed planning efforts. Panelists will speak about their roles and experience and outline collaboration opportunities between agencies and among hazard mitigation and Clean Water Act planning.

- Ellie Flaherty, Biologist, U.S. Environmental Protection Agency
- Estella Moore, Life Scientist, U.S. Environmental Protection Agency
- Derek Schriner, Engineer/Nebraska Silver Jackets Coordinator, U.S. Army Corps of Engineers

3:45pm BREAK

4:00pm Coming to a Common Language

Often water quality and hazard mitigation professionals use their own unique terminologies and acronyms that are not readily understood outside of their respective fields. This discussion will focus on defining terminology used in both water quality and natural hazard mitigation practices and identifying the dual benefits of many projects implemented.

- Ian Grosfelt (facilitator)

5:00pm State and Local Huddles

Building off the last session, these state and local huddles will be an opportunity for each state and local pair to talk with one another about their work, and to then talk as a one state group about opportunities for collaboration with one another.

5:30pm Adjourn for Day



Wednesday, September 17, 2025

8:30am **Wildfires and Water Management**

Wildfires can cause a plethora of water quality hazards in addition to their destructive force against communities and ecosystems. They can lead to soil erosion, increased flooding risk, and water pollution from the flow of debris contaminants. This session will cover various integrated watershed strategies and programs at both state and regional levels in from a western context.

- Jocelyn Harimon, Nonpoint Source Program, New Mexico Environment Department
- Jeff Sickles, Technical Expert, Olsson
- Alex Funk, Director of Water Resources, Teddy Roosevelt Conservation Partnership

9:30am **Planning for Water Scarcity**

Water quantity and availability is a persistent issue faced by the semi-arid regions throughout the Western US. This session will delve into resources available through the National Integrated Drought Information System and what a water conservation district in Colorado is doing to plan for and mitigate the risks of water scarcity.

- Sean Cronin, Executive Director, St Vrain and Left Hand Water Conservation District
- Veva Deheza, Executive Director, NOAA National Integrated Drought Information System

10:30am **BREAK**

10:45am **Exercise #1: Barriers to collaboration and implementation (10:45-12:00pm)**

This exercise will engage participants in breakout roundtable discussions on successes and challenges they have faced related to collaboration around integrated planning and implementation of joint projects. Exercise worksheet attached at the end of the agenda. K

12:00pm **LUNCH**

1:00pm **Permitting & Regulations Across Water Quality and Mitigation Projects (1:00-2:00pm)**

Understanding the permitting and regulatory requirements for constructing nature-based mitigation and water quality projects is a key element to the successful design and implementation of these strategies. This session will talk through permitting processes and resources available through the U.S. Army Corps of Engineers and will feature a conversation of how a Mile High Flood District navigated permitting.

- Aaron Eilers, Senior Project Manager, U.S. Army Corps of Engineers
- David Skuodas, Director of Design, Construction, and Maintenance, Mile High Flood District
- Mary Powell, Environmental Manager, Mile High Flood District

2:00pm **Mobile Tour of Project Sites Hosted by Mile High Flood District (2:00-5:00pm)**

The Little Dry Creek is a large watershed located in an older neighborhood at the inner northwest part of the Denver metro. Mile High Flood District's Little Dry Creek Project was a nature-based infrastructure project that converted grey infrastructure from the 1970s into a diverse plant palette of grasses, shrubs, and trees to stabilize the stream channel and create biodiversity. The project fully incorporated flood and stormwater management, along with environmental and public interests. The design exemplifies working with the inherent character of natural systems, rather than forcing a fixed single objective solution into a setting, allowing the water and system to behave naturally as much as possible. This mobile tour will stop at multiple locations along the watershed including Westminster Station.

- David Skuodas, Director of Design, Construction, and Maintenance, Mile High Flood District
- Mary Powell, Environmental Manager, Mile High Flood District

5:00pm **Adjourn for Day**



Thursday, September 18, 2025

8:30am Funding Mechanisms and How to Combine Funding Sources (8:30-9:30am)

There are a number of potential funding opportunities available to assist with hazard mitigation and water quality improvement project planning and construction. This session will focus on the current state of conservation finance and touch on innovative funding sources including various loan, grant, and financing programs currently being used by the Salt River Project, a utility agency in the state of Arizona. Participants will be invited to share their own project funding experiences and challenges.

- Collete Pansini, Water and Forest Planning Analyst, Salt River Project
- Katie Michaels, Director of Partnerships, Conservation Finance Network

9:30am Exercise #2: Project development scenario to work through with your cohort

Participants will break into small groups to develop a plan and process for integrating nature-based practices in and around their community to achieve flood risk reduction and water quality benefits. Discussions should take into account issues, regulations, and agencies that should be engaged. At the end, everyone will reconvene to discuss what came up in their conversations.

10:45am BREAK

11:00am Building and sustaining relationships

This session will focus on strategies to break down silos and strengthen relationships between water quality and hazard mitigation programs as well as between levels of government. It will include a discussion around approaches to building local coalitions for project targeting and implementation and include examples from Colorado and the western US. The goal is to be able to take lessons and connections from the entire workshop and discuss how to maintain progress towards future collaboration.

- Brian Murphy, River Network
- Katherine Rowden, USACE Silver Jackets

11:45am State and Local Huddles

Building off the Building and Sustaining Relationships session, state and local pairs will huddle to strategize as a group around how they may bolster their collaboration and actions they might take to ensure their relationships are sustained beyond this program.

12:25pm WRAP UP

12:30pm ADJOURN