Peak Alliance for a Sustainable Future

Mission: Promote the economic, social and environmental vitality of the Pikes Peak region by advancing "Looking to our Future – Pikes Peak Region 2030" (PPR2030), a strategic roadmap for achieving regional sustainability through collaboration and outreach.

Areas of Emphasis:

Agriculture
Arts & Culture
Built & Natural Environment
Economic Development
Education
Energy
Health
Materials Management & Procurement
Transportation
Water Quantity

Board Members: Mary Barber Brent Kennedy Konrad Schlarbaum

- Community needs for achieving PPR 2030 -•Awareness & knowledge •Involved citizens •Connected people & organizations •Innovation & creativity •Funding tied to plans •Action! Who will benefit? •Businesses
- •Government
- Non-Governmental institutions
- •Community
- •People
- ... now & in the future

<u>Web Site</u> peakallianceco,org

Why support PASF?

Programs & services offered -

- •Grow awareness of sustainability & the PPR 2030
- •Teach the value & fundamentals of sustainability
- •Inspire action to achieve goals
- •Cooperate with other agencies & organizations
- •Communicate to tell our stories, celebrate successes & share lessons learned
- •Collaborate to bring partners and resources together to put sustainability into practice
- Motivate & guide leaders, employees & citizens
 Demonstrate new & innovative technologies & processes
 Promote actions leading to a resilient, sustainable community, environment & economy

Find more information about Pikes Peak area sustainability on Facebook at <u>Sustainable and Resilient</u> <u>Pikes Peak Region</u>

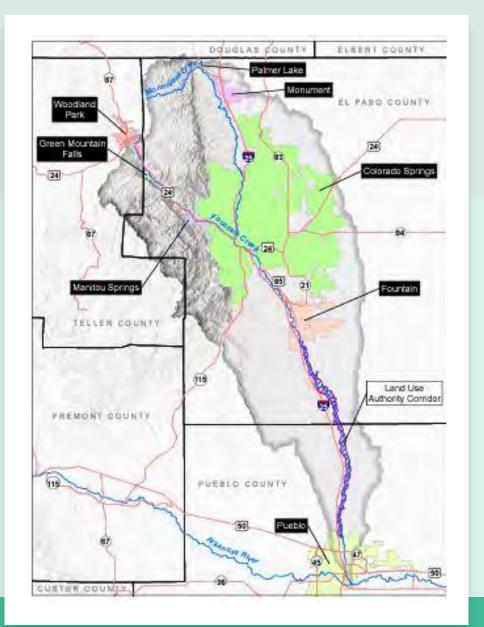
PASF is a nonprofit 501(c)(3) organization. Tax deductible donations can be made by contacting peakalliance.co@gmail.com

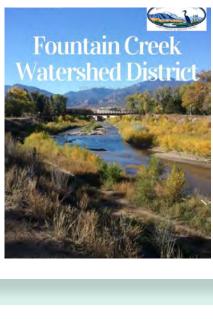
"UNLESS someone like you cares a whole awful lot, nothing is going to get better. It's not." – Dr Seuss, author of *The Lorax*

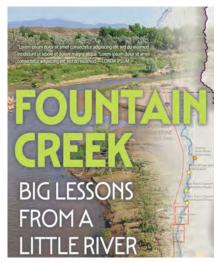
Future of Fountain Creek

A panel discussion & community conversation exploring the future of Fountain Creek

- **History**
- Environmental, Economic & Cultural Importance
- **Challenges & Opportunities**
- Conservation, Protection & Restoration
- **Community Collaboration**







Images courtesy of Fountain Creek Watershed District & author Jim O'Donnell



Fountain Creek Watershed District

For the thriving life of the watershed and all it touches



Alli Schuch Executive Director





Many downstream neighbors... The ocean starts in Colorado







Snapshot of the Fountain Creek Watershed

 927 square miles of land and water
 Two counties, seven municipalities
 Elevation change from 14,115' to 4,695' over 71 miles



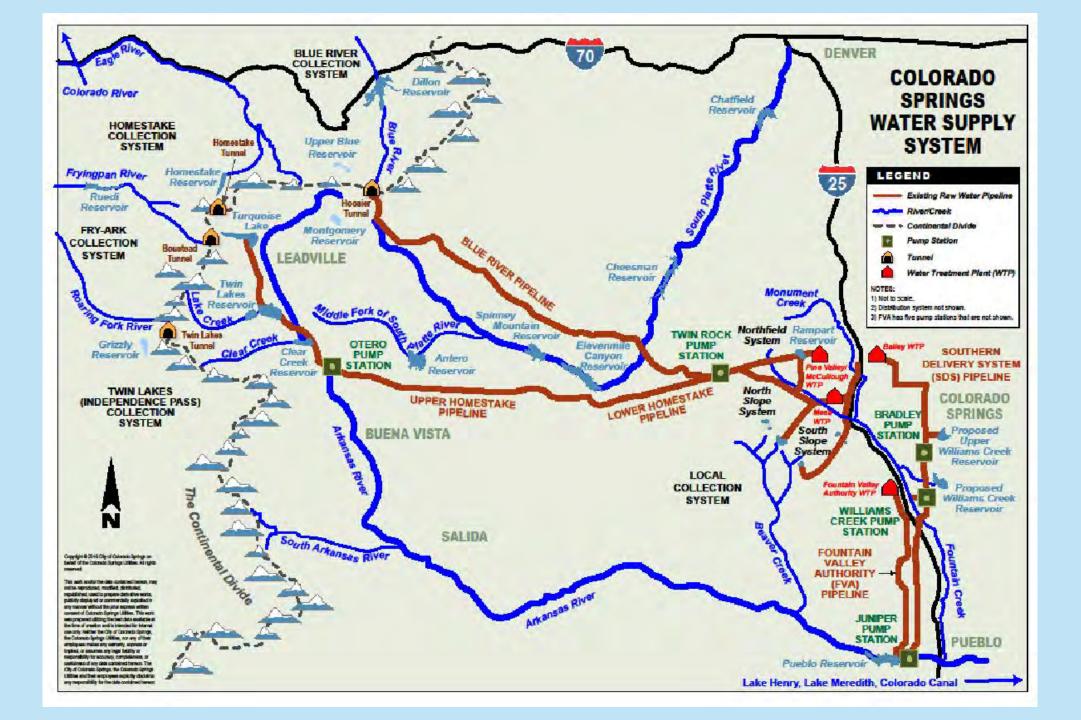
Extremes in slopes, soil types, temperatures, precipitation, ecosystems and multitudes of water uses

 Second most studied, and one of the most erratic watershed in the US



"I shall never forget my sudden sense of hopeless disappointment at the moment when I first looked on the town....small, straight, new, treeless." Helen Hunt Jackson









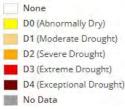


- Population growth
- Drought
- Post-fire conditions
- Wildfires
- Urban canopy
- Sedimentation/erosion
- Stormwater pollution
- Increased impervious surfaces
- Habitat fragmentation
- Water quantity
- Invasive species
- Increasing frequency/severity of storms

Watershed Risks... Not IF but WHEN

Map released: Thurs. March 13, 2025 Data valid: March 11, 2025 at 8 a.m. EDT

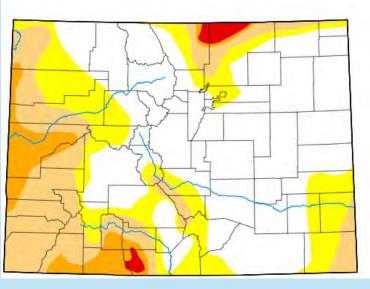
Intensity



Authors

United States and Puerto Rico Author(s): Richard Tinker, NOAA/NWS/NCEP/CPC

Pacific Islands and Virgin Islands Author(s): Brad Rippey, U.S. Department of Agriculture

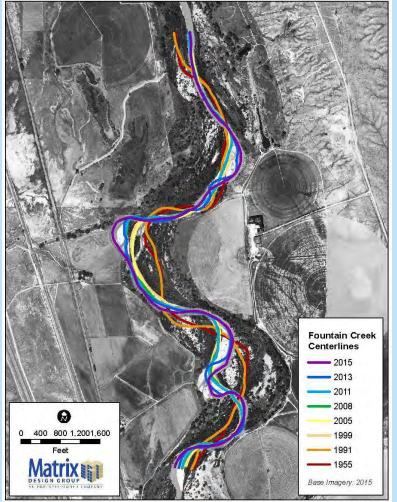




SOUTHMOOR DR Fountain

FC HISTORIC CHANNEL

MASCIANTONIO TRUST Pueblo County





OVERTON RD Pueblo County



Fountain Creek... Predictably Unpredictable





District Formation

2006 Senator Ken Salazar visit – Fountain
 Creek Watershed as a "Crown Jewel"

29-member Consensus Committee + Task
 Force – 2 years of monthly meetings

 Identified needs for additional funding and more dedicated management





District Formation – Happy 16th Birthday!

SB09-141 under Title 32 of the CRS April 2009

Authorized to manage, administer, and fund the capitol improvements

necessary in the Fountain Creek Watershed to:

Mitigate flooding, erosion, and sedimentation

Address water quality issues

Improve drainage





District Management

Board of Directors – all Jurisdictions Represented Member governments contribute General Fund \$ based on population size

- Terry Hart, CAG Representative, Chair
- Jessica Mills, Lower Arkansas Water Conservancy District, Vice Chair
- David Leinweber, Treasurer, City of Colorado Springs
- Tamara Estes, City of Fountain Secretary
- Miles Lucero, Pueblo County
- Bill Wysong, El Paso County
- Roger Gomez, City of Pueblo
- Jim Romanello, Small Municipalities (Monument, Palmer Lake, Green Mountain Falls, and Manitou Springs)
- Dr. Barr, Pueblo County Landowner

Monetary Mitigation Fund Advisory Committee

Technical Advisory Committee



District Funding

•9 member governments contribute annually to the District's General Fund, based on population size

■\$50 million from Colorado Springs Utilities to offset impacts on Fountain Creek due to increased return flows per the Southern Delivery System 1041 Permit Condition 6

New projects on Fountain Creek

Create significant and not merely incidental benefit to Pueblo County

Improvement of water quality, flood control, prevention of erosion and sedimentation

Grants, sponsorships, in kind support from member governments and partners



Project Selection

Conditions Assessments

Opportunities

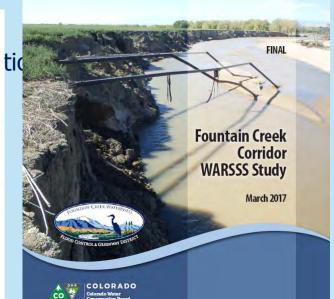
Strategic Plan for the Fountain Creek Watershed

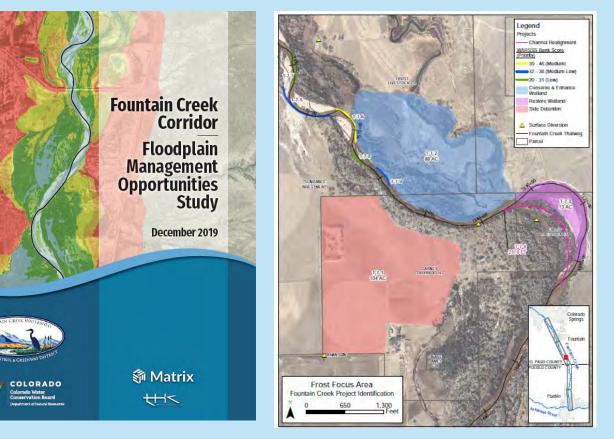


Prepared by the Fountain Creek Vision Task Force

Finalized on March 10, 2009

Available online at www.fountain-crk.org













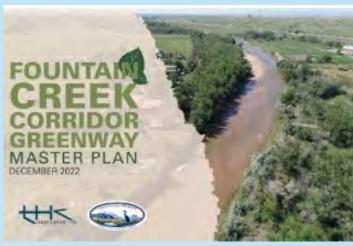


Master Plans











Project Selection

Prioritization

Condition 6 of SDS Permit

MME critoria EMOC Eccus Aroas

Table A-3. MMF Tier I and Tier II Project Evaluation Criteria

Water Quality	
Improves Water Quality (Sediment)	
Improves Water Quality Constituents of Concern	
Flooding	
Reduces Flooding Risk	
Improves Floodplain Connectivity	
Protects Life and Property	
Addresses Potential Loss of Public Infrastructure (in Pueblo County)	
Impacts to Water Rights are Resolved (for detention related projects	only)
Feasibility to Protect Infrastructure in Place is Better Than Cost of R	elocating
FC Stability	
Addresses Erosion and Sedimentation	
Address Sediment Source	
Protect Streams with Unchanged Hydrology	

Tier 2 – Criteria	
Environment and Habitat	1
Improves habitat quality or rehabilitates native vegetation	-
Protects high quality ecological systems	
Wetland and/or oxbow restoration	
Establishes riparian corridor connection	
Project Partners	
Additional funding partners	
Provides opportunity to partner on project implementation	
Recreation	
Provides creek access opportunity	
Provides regional trail connectivity	
Provides new recreational facilities	
Plan Relevance	. 1
Project identified in Fountain Creek Corridor Master Plan	
Projects identified in Army Corps of Engineers study for flood control, erosion, and sedimentation	
Sediment, erosion, or flood control found acceptable by District	
Rate of return for dollars spent for sediment removed	
Other Criteria	
Holistic solution - connectivity v. remote small sites	
Feasibility	
Public Interest	
Benefits X# of communities/stakeholders	4
Other Benefits to Pueblo County	
TBD	



Project Selection

Watershed-wide input from Technical Advisory Group, Citizen Advisory Group, recommendations to Board of Directors



FOUNTAIN CREEK WATERSHED DISTRICT WATER ACTIVITY ENTERPRISE

2025 CAPITAL IMPROVEMENT PLAN

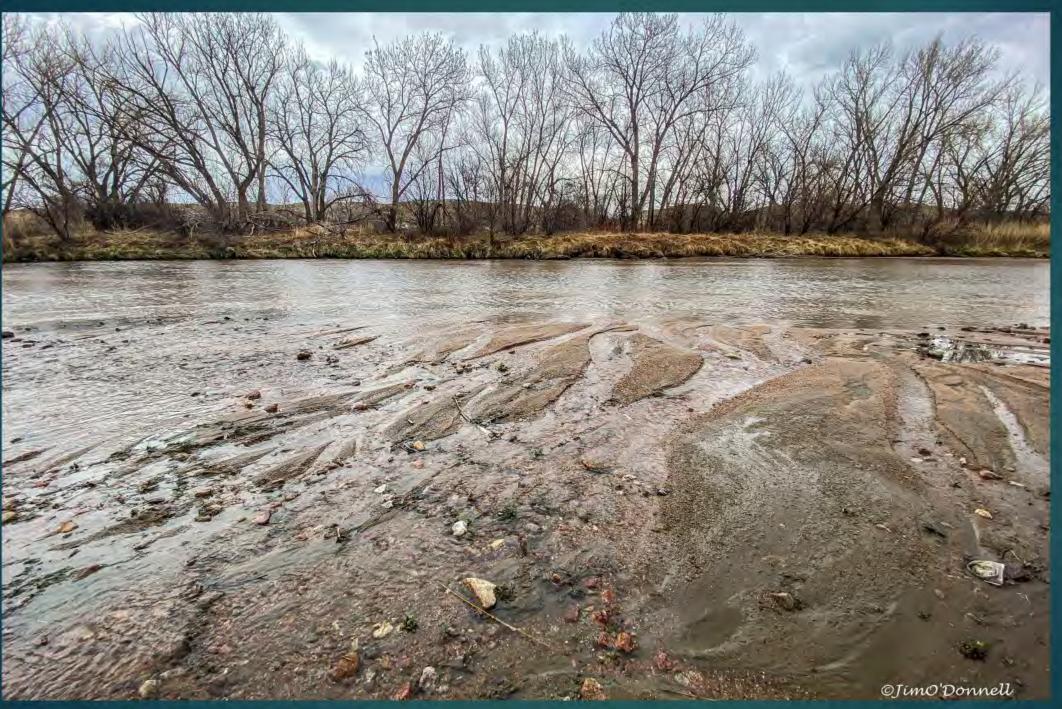
October 2024

This Document Prepared by the Monetary Mitigation Fund Advisory Committee for the Fountain Creek Watershed District Water Activity Enterprise Board.

What is a River?

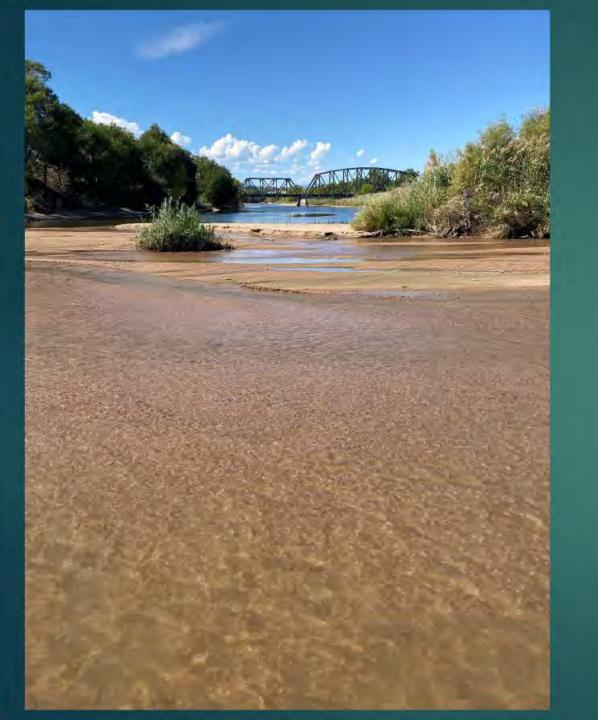
FOUNTAIN CREEK, COLORADO. BIG LESSONS FROM A LITTLE RIVER

"Every stream in the American West deserves a biographer as affectionate, thorough, and lyrical as Jim O'Donnell." -BEN GOLDFARB, Crossings and Eage **BIG LESSONS** FROMA LITTLE RIVER JIM O'DONNEL



"People don't pay attention. And then one day there's an accounting. And After that, nothing is the same."

- Cormac McCarthy









"Anyone who has ever struggled with poverty, knows how extremely expensive it is to be poor."

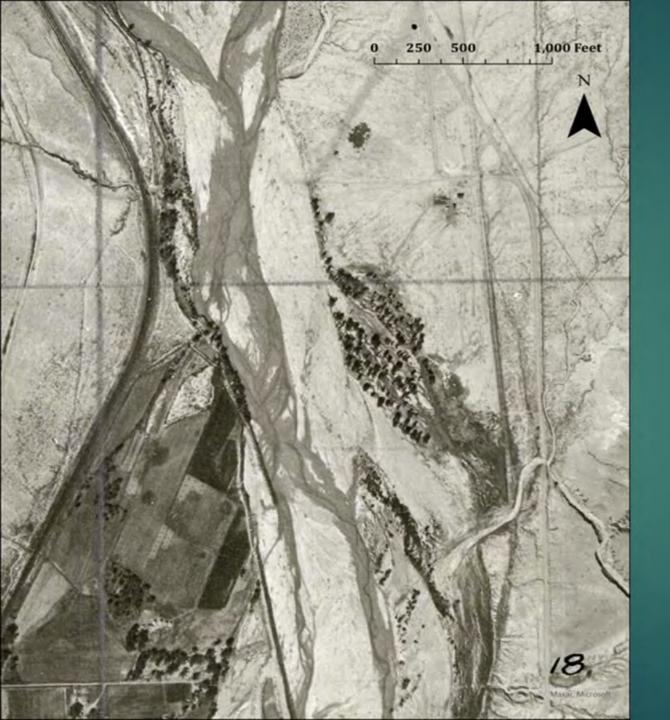
- James Baldwin







You can't fix the past, but you can mend the future



1937

Image courtesy: Dr. Sarah Schanz, Colorado College

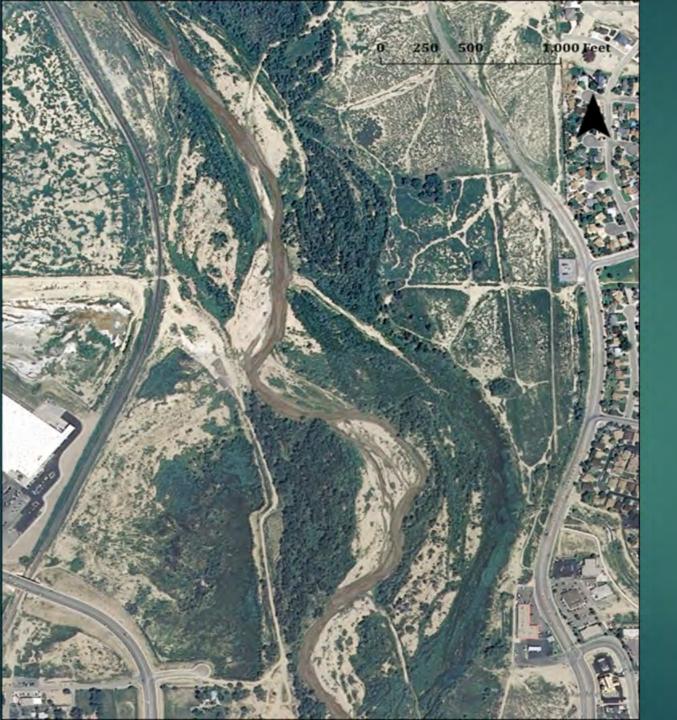
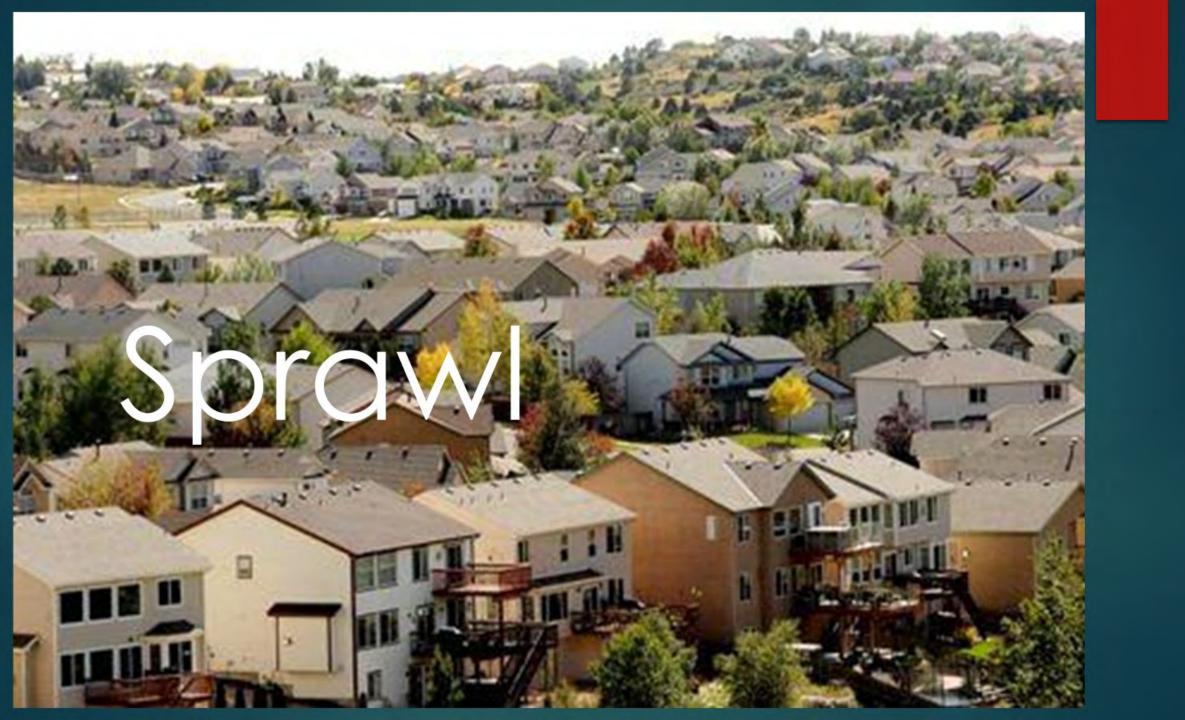




Image courtesy: Dr. Sarah Schanz, Colorado College





Water. Always. Wins.



"Trying to mitigate floods or improve water quality? There's a beaver for that. Hoping to capture more water for agriculture in the face of climate change? Add a beaver. Concerned about sedimentation, salmon populations, wildfire? Take two families of beaver and check back in a year."

- Ben Goldfarb, Eager

blue area indicates active stream coridor

Space to evolve

Blue = Fluvial Hazard Zone

Image courtesy Dr. Sarah Schanz, Colorado College

"WHEN WE SEE LAND (AND WATER) AS A COMMUNITY TO WHICH WE BELONG, WE MAY BEGIN TO USE IT WITH LOVE AND RESPECT."

- Aldo Leopold





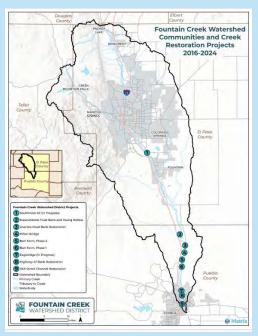




Construction Projects

- 1) Pueblo Sediment Collection/Removal (C 12/2011)
- 2) Pueblo Off-Channel Detention Basin (C 12/2011)
- 3) Frost Ranch Bank Stabilization (C 4/2014)
- 4) Pueblo Levee Dredging (C 8/2017)
- 5) Masciantonio Trust Bank Stabilization (C 4/2018)
- 6) HY47 Bank Stabilization and Channel Realignment (C 11/2018)
- 7) Pinon Bridge Bank Stabilization and Channel Realignment (C 6/2019)
- 8) Barr Farm Phase I Bank Stabilization and Channel Realignment (C 6/2020)
- 9) Barr Farm Phase II Bank Stabilization, Channel Realignment (C 6/2020)
- 10) Overton Road Bank Stabilization (C 6/2020)
- 11) Pueblo Channel at 13th Bank Stabilization, Channel Realignment (C 6/2021)
- 12) Fountain Creek at Hanson Trailhead (C 6/2021)
- 13) Pueblo Levee Floodplain Restoration (C 12/2022)

\$35M+ invested













Project Effectiveness

- Assess project objectives
- Project performance
- Lessons learned
- Bank assessment
- Compare to
 WARSSS

Project Effectiveness Evaluation Summary of Findings



2435 Research Pkwy, Suite 300 Colorado Springs, CO 80920 719-575-0100 Contact: Tori Mack, PE

February 1, 2024

Summary

- Lessons Learned
 - Rock and boulder
 - Revise toe wood soil lift designs
 - Vegetative success is key

Invited State	Recommendation	
Miscientonio Trust Bank and Young- Hollow	Weed control for minimum of two years with focus on salt cedar and Russian oflye.	
· Overton Road Bank Restaution ·	Monitoring of post-flood conditions in 2024, Weed control for minimum of two years with focus on salt order.	
Pinon Brillige	Monitoring of post-flood conditions in 2024. Vegetation monitoring and word control for minimum of two years.	
Barr Form, Phone 2	Monitoring of bend migration in 2024 and ennually. Vegetati monitoring and weed control for minimum of two yeers. Monitoring of the wood bend and confined area in 2024. Vegetation monitoring and weed control for minimum of two years.	
Bart Form, Phone 1		
Highway 47 Bank Restoration	Additional action recommended. In discussion, Vegetation monitoring and wood control for minimum of two years. Interseeding areas with low native cover.	
19 ⁴ Sinet Channel Restoration	Additional action recommended. In discussion, Vegetation monitoring and weed control for minimum of two years. Intersecting areas with low native cover.	



Highway 47 Bank Restoration

Before

- Completed November 2018
- Cost: \$6 million
- 3,000 feet
- Channel stabilization
- Infrastructure protection
- 30,000 tons/year sediment reduction
- Riparian habitat restoration



After



Highway 47 2023 Storm Damage







Masciantonio Trust Bank Restoration

- Completed: April 2018
- Cost: \$2 million
- 1,500 feet
- 13,653 tons/year sediment reduction
- Channel stabilization
- 5,000 cottonwood and willows + native seeds



Before



After



Southmoor Drive – Fountain - Underway



- Due to complete May 2025
- Cost: \$4.2 up to \$6.2 million
- 55,088 tons/year sediment reduction
- Channel stabilization
- 21,000 willows, 222 cottonwood poles + native seeds
- Funding partners: City of Fountain, Colorado Water Conservation Board
- First project in El Paso County









Southmoor Drive – Fountain - Underway



- Due to complete May 2025
- Cost: \$4.2 up to \$6.2 million
- 55,088 tons/year sediment reduction
- Channel stabilization
- 21,000 willows, 222 cottonwood poles + native seeds
- Funding partners: City of Fountain, Colorado Water Conservation Board









Challenges

- •MMF \$ is running out. What to do with remaining \$9M?
- \$1B in project work identified across the watershed
- Sustainable funding
- Population growth
- Risks mounting







Opportunities

Water is a shared resource We all have limited resources We are on borrowed time We must collaborate on shared solutions We are here to help













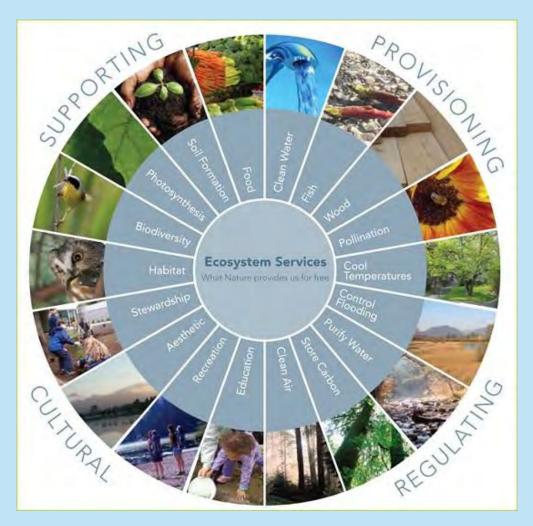
Powerful



Scarce



WATER IS EVERYTHING





Protecting Your Watershed

- Positive behavior changes leading to real impacts
 - Scoop the Poop
 - Plant natives reduce turf
 - Bag and tie your trash, don't litter
 - Conserve water fix leaks, take short showers

• Participate in District meetings, events

- Citizen Advisory Group, 2nd Fridays 930am virtual
- Technical Advisory Committee, 1st Weds 1pm virtual
- Liquid Lectures Pueblo and Colorado Springs
- Great American Cleanup Sat 5/3
- Rain Barrel Sale
- Join our e-newsletter
- Talk to your neighbors, friends, family, and elected officials
- Get Jim's Book!

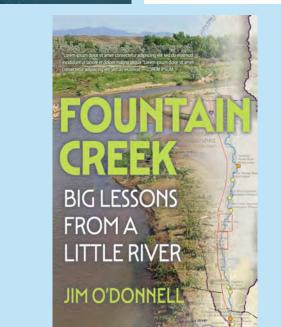


FOUNTAIN CREEK s like grabbers, buckets, gloves & bags provided by ND: Crew Leader registration opens March 24

www.fountain-crk.org









Thank You

Alli Schuch fountainckdist@gmail.com

Manitou Lake Feb 2024

Thank you for attending today!

Join us again on April 16th on Zoom at 12pm. Ms Annie Berlemann, Colorado Springs Utilities, will be speaking about water quality in the watershed.

Sign up to receive our newsletter & more information about upcoming events.

Visit our website at **peakallianceco.org**.

Join the <u>Sustainable and Resilient Pikes</u> <u>Peak Region</u> on Facebook or find us on LinkedIn.



Photo courtesy Sunnye Buesing & Fountain Creek Watershed District 2021 Photo Winner