

# What's this about? Exploring the Watershed Workspace

# **Good Samaritan Projects**

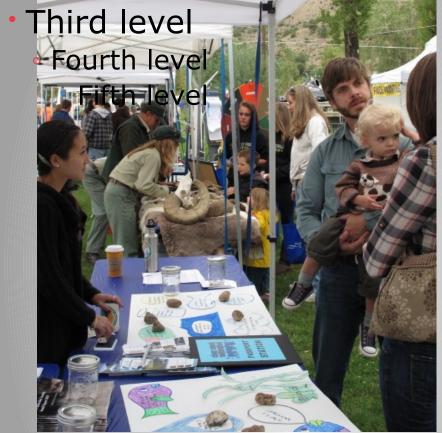
### Watershed Community Action

### **Clear Creek Watershed Foundation: A Watershed Community Resource**



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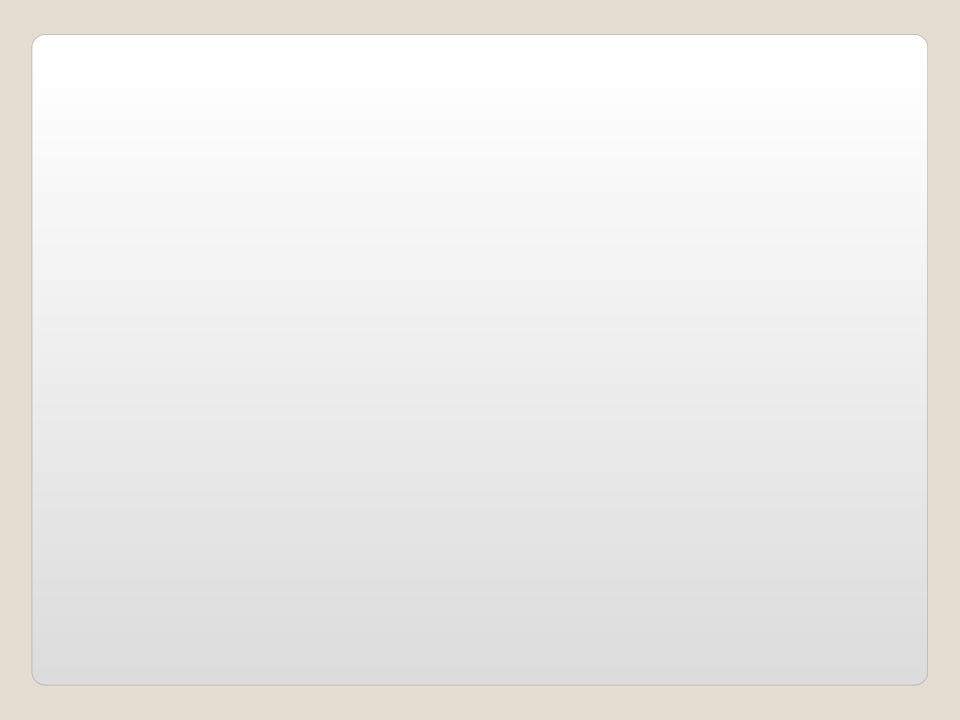
#### CCWF Many-varied Projects

 Fiscal Management-Public and private funds

Volunteer clean-ups and restoration projects

**Mine remediation** 

- Fish habitat construction
- Mine drainage improvement
- Renewable energy policy
- Wildfire Mitigation Planning
- Environmental Education & Public Outreach efforts
- Watershed community Support



- Local Communities
- Water providers
- State Agencies-WQCD; DWR, CWCB, CPW, CDOT; et al.
- Greenway Users
- Wastewater Treatment
  operators
- Regular watershed visitors
- Irrigators
- Rafting companies and their customers
- Beer makers
- Snow makers

#### **Clear Creek Watershed Community**

#### Partial List

- Clear Creek Forum created including project portfolio with priorities- 1990-1992
- Establishment of UCCWA- 1993
- Clear Creek Watershed Management Agreement
- Establishment of the Watershed Foundation
- Cooperative watershed monitoring
- Spill reporting and tracking
- Site-specific standards development
- Watershed Plan Development

### Clear Creek Watershed Community Action

### WATERSHED COMMUNITY ACTION:

- Achieve common understanding of problem(s)
- Agree to joint goals to address the problem
- Arrive at common indicators of success
- Create collective Impact

Source: Channeling Change: Making Collective Impact Work, Stanford Social Innovation Review, by Fay Hanley brown, John Kania, & Mark Kramer Balanced Stewardship

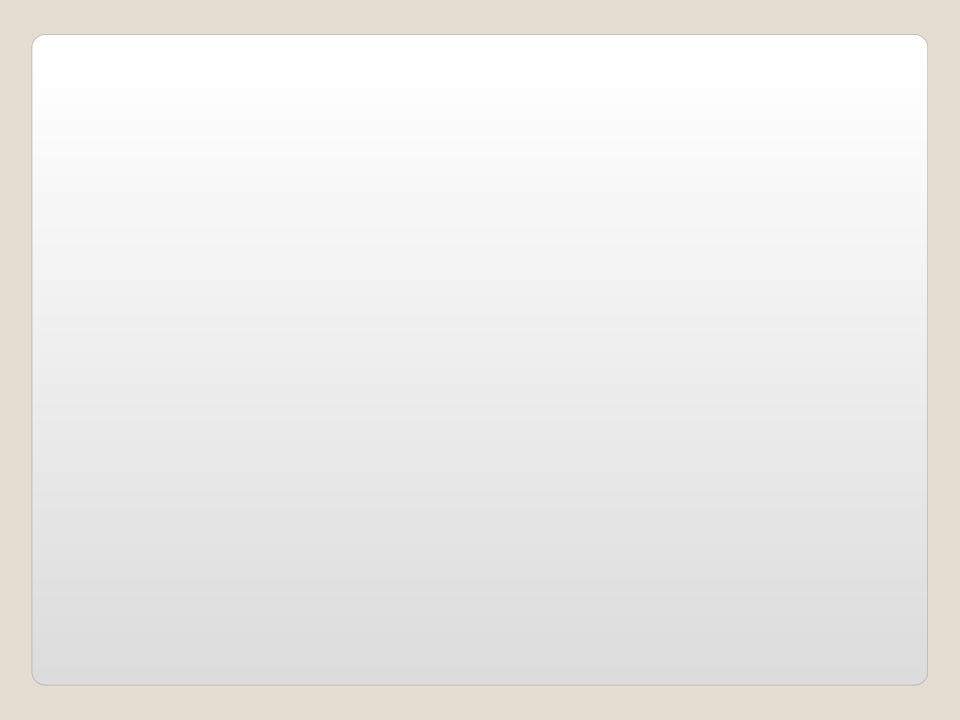
- Support community dialogue
- Organize Targeted Forums
- Participate in the community
- Build Consensus, Find Solutions

# **Balanced Stewardship**

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- Assist in data collection & analysis
- Coordinate community outreach
- Support prioritization of watershed Issues & Goals
- Mobilize funding

### **CCWF: A Watershed Community Backbone Organization**





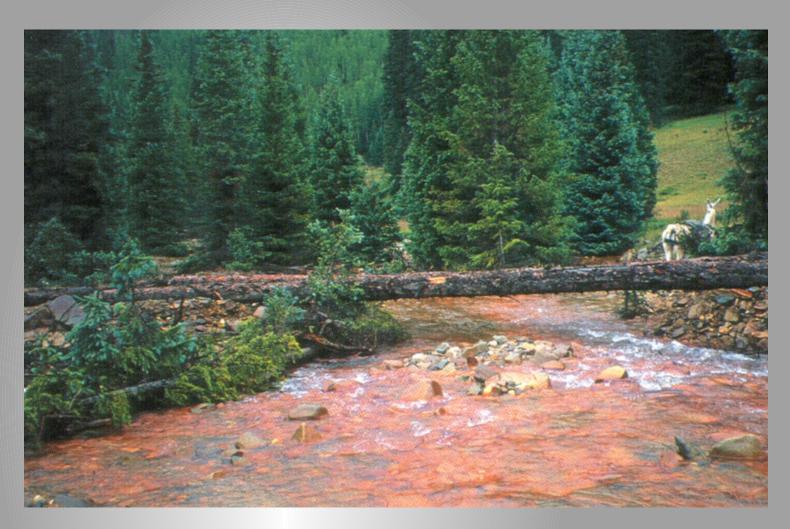
#### Clean Water

- Pollution Prevention
- Monitoring & Assessment
- Source Water Protection
- Development of Water Quality Standards
- Point & Nonpoint Source Pollution Control
- Clean Water Infrastructure Planning/Financing

# **Clean Water**



## **Storm Water**



# **Alpine Mine Drainage**



# **Point Source Impacts**

Beneficial Water Uses

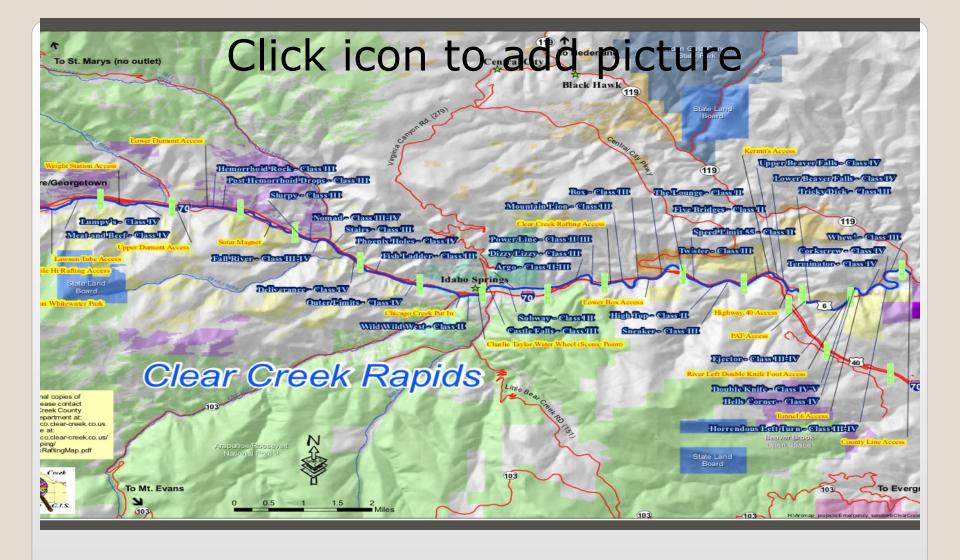
#### SAFE WATER

- Water Supply Withdrawals
- Aquatic Life Use of Stream
- In-stream Recreational Uses
- Agricultural Diversions

# **Beneficial Uses**



# **Recreational Fishing**



**Clear Creek Rafting Map** 



# **Irrigation Diversion**

Restored Lands

### **Better Water**

- Inactive / Abandoned Mine Reclamation
- Passive Mine Drainage Treatment
- Erosion Control
- Burned Land Restoration
- Stream Channel Stabilization
- Restoration of flooded lands

# **Restored Lands**

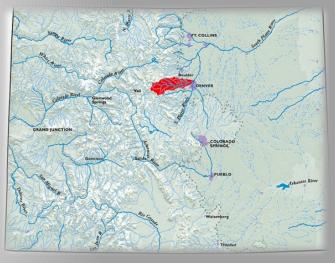
Restored Lands

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# **GOOD SAMARITAN**

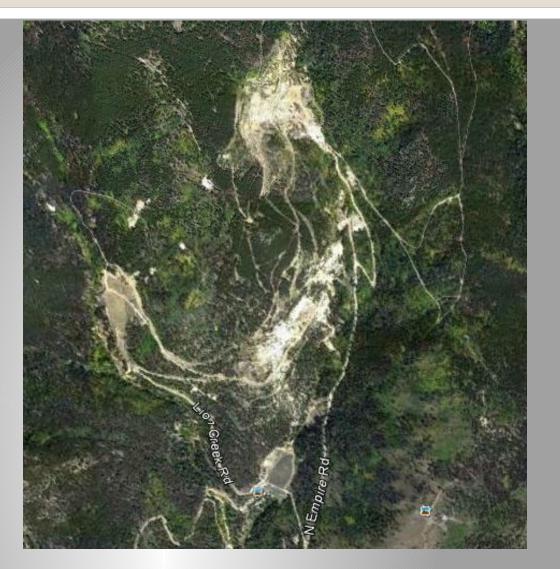
As a "Good Samaritan" entity per a 2003 EPA Action Memo, CCWF has been working with numerous stakeholders to facilitate cleanup of the 1,600+ orphan mine and mill sites not covered by the Clear Creek/Central City Superfund program:

- Silver Cycle
- Little Bear
- Minnesota Mine Runoff
- McClellan Mill
- Freeland Area
- North Empire Ck

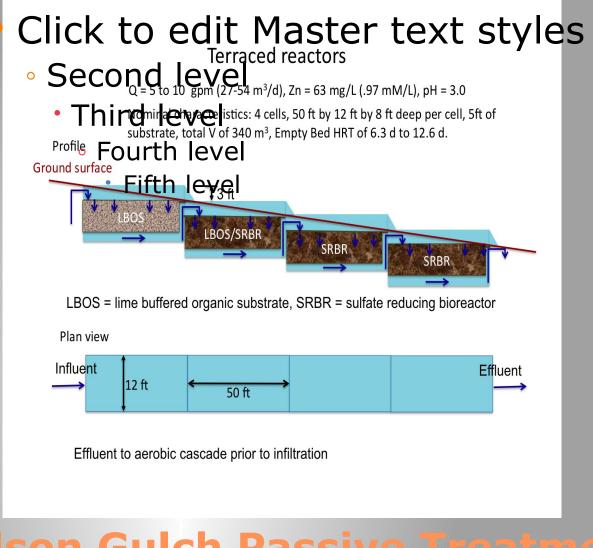


# EPA Good Samaritan Policy:

#### 2012 Interpretive Memorandum for 2007 Guidance



# North Empire Creek



#### **Gilson Gulch Passive Treatment**

#### Healthy Habitats

- In-stream Habitat Restoration & Improvement
- Wetland Protection & Enhancement
- Riparian Zone Revitalization
- Wildfire Risk Reduction

# **Healthy Habitats**



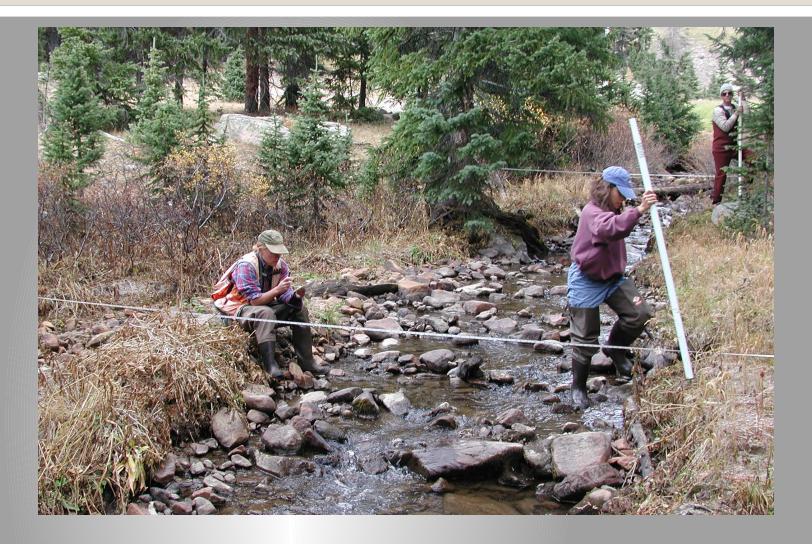
#### **Fish Habitat Enhancement**



#### Watershed Knowledge

- Water quality monitoring and assessment
- Natural history and ecology of the Watershed
- Historical/Cultural resources
- Community sustainability
- Outdoor learning opportunities
- Environmental education

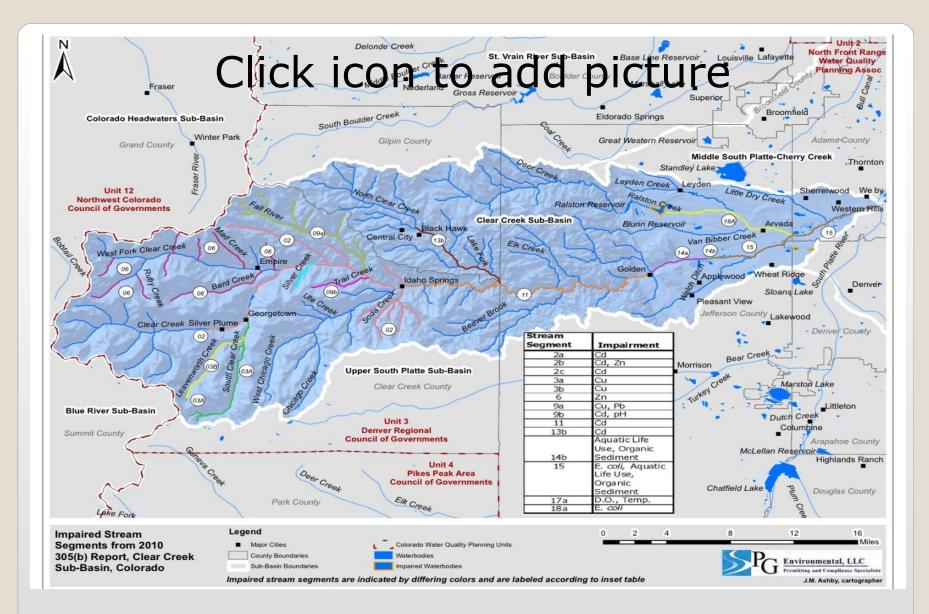
# Watershed Knowledge



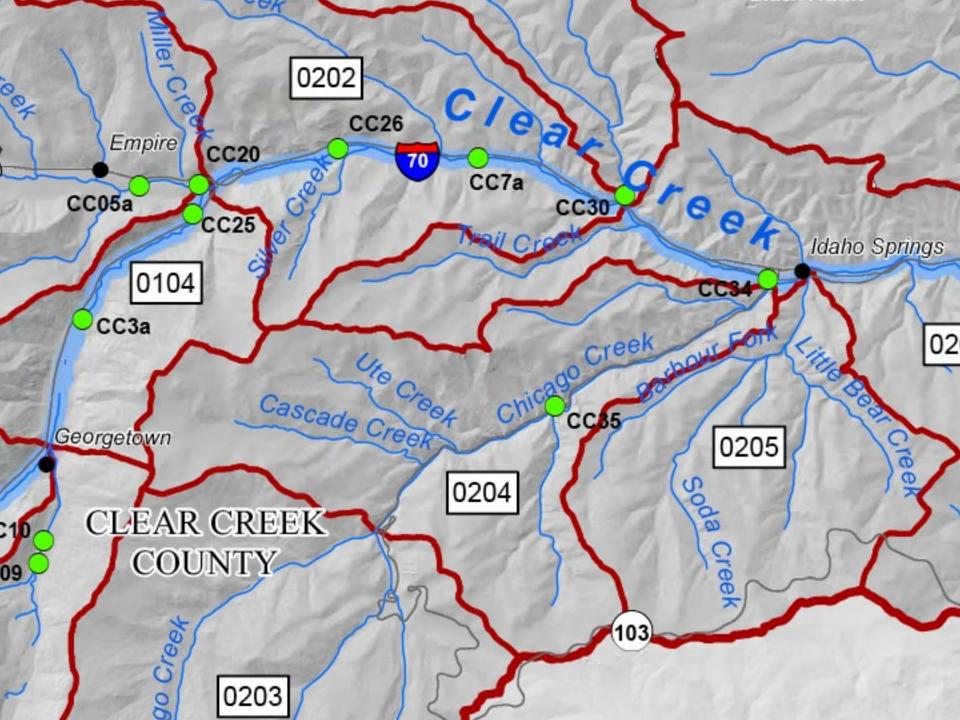
# **Monitoring and Assessment**



# Go to:www.clearcreekwater.org Clear Creek Flow at Kermit's Gage



#### **Clear Creek Monitoring Stations/Impaired Waters**



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