

Tuesday, June 20 Morning Session

- 8:30 am** **WELCOMING REMARKS**
Kevin Lombard, NMSU, on behalf of NM WRRRI Director Sam Fernald
David Sypher, Public Works Director, City of Farmington
- 8:45** **CONGRESSIONAL STATEMENTS**
Senator Tom Udall
Senator Martin Heinrich
Congressman Ben R. Lujan
- 9:00** *New Mexico's Scientific Response to the Gold King Mine Spill*
Nelia Dunbar, Director, NM Bureau of Geology and Mineral Resources
- 9:10** *Geologic Setting and History of Mining in the Animas River Watershed, Southern Colorado*
Virginia T. McLemore, NM Bureau of Geology and Mineral Resources ([Abstract 16](#))
- 9:30** *Let's Not Wait for Catastrophic Spills to Happen: Holistic, Long-Term, Multi-Jurisdictional Monitoring in Legacy Mining Areas*
Dennis McQuillan, NM Environment Department ([Abstract 20](#))
- 10:00** *Characteristics of Metals Concentrations in the Animas and San Juan Rivers During Passage of the Gold King Mine Release Plume*
Kathleen Sullivan, U.S. Environmental Protection Agency, Athens, GA ([Abstract 19](#))
- 10:20** **BREAK AND POSTER SESSION**
- 11:00** *The Gold King Mine Spill in the Context of Historical Water Quality Impacts to Utah's San Juan River and Lake Powell*
Christopher L. Shope, Utah Division of Water Quality ([Abstract 3](#))
- 11:20** *An Overview of the Gold King Mine Release and its Transport and Fate in the Animas and San Juan Rivers*
Kathleen Sullivan, U.S. Environmental Protection Agency, Athens, GA ([Abstract 17](#))
- 11:40** *The Colorado Data Sharing Network: A Useful Tool for Visualizing Water Quality Data in the Animas Watershed*
Melissa May, San Juan Soil & Water Conservation District ([Abstract 5](#))
- 12:00 pm** **LUNCHEON**

Tuesday, June 20 Afternoon Session

- 1:30 pm** *Surface Water Geochemistry During Snowmelt and Monsoons in the Animas and San Juan Rivers*
Johanna M. Blake, U.S. Geological Survey ([Abstract 8](#))
- 1:50** *Potential Surrogate Methods for Monitoring Concentration of Metals in Real-time, Animas and San Juan Rivers, Northwestern New Mexico*
Jeb Brown, U.S. Geological Survey ([Abstract 9](#))
- 2:10** *Illustration of a Fingerprinting Method to Isolate Gold King Release Metals from Background Concentrations in the San Juan River*
Kathleen Sullivan, U.S. Environmental Protection Agency, Athens, GA ([Abstract 18](#))
- 2:30** *Continued Monitoring of the Animas River Valley Groundwater Level after the Gold King Mine Mine-Water Release of 2015*
Ethan Mamer, NM Bureau of Geology and Mineral Resources ([Abstract 15](#))
- 2:50 pm** **BREAK**

- 3:10 *Geochemical Characterization of Shallow Groundwater Near the Animas River, Northwestern New Mexico*
Talon Newton, NM Bureau of Geology and Mineral Resources (Abstract 22)
- 3:30 *Source Identification for Metals in the San Juan River System*
Logan Frederick, University of Utah (Abstract 21)
- 3:50 pm **ADJOURN**

Wednesday, June 21 Morning Session

- 9:00 am *Mine Spills and Antibiotic Resistance – What is the Connection?*
Jean E. McLain, University of Arizona Water Resources Research Center (Abstract 7)
- 9:20 *Ecological and Chemical Analysis of Heavy Metal Transduction in *Salix exigua* on the Animas and Florida Rivers*
Magen Marzonie, Fort Lewis College (Abstract 1)
- 9:40 *Application of Newly Identified Solar-Atmospheric Connections Towards Improved Forecasts of the Animas River and Other Streams in the Western US*
Michael Wallace, MW&A (Abstract 2)
- 10:00 *Water Quality and Sediment Monitoring of the San Juan River, Three Major Tributaries, and Two Irrigation Canals within the Navajo Nation*
Steve Austin, Navajo Nation EPA (Abstract 30)
- 10:20 **BREAK**
- 10:40 *Lead and Arsenic Concentrations in the Lower Animas Irrigation Ditch Sediments*
Sam Fullen, New Mexico State University (Abstract 24)
- 11:00 *Metal Concentrations in Soil and Sediments after Gold King Mine Spill*
Gaurav Jha, New Mexico State University (Abstract 25)
- 11:20 *AML Project: Inventory and Characterization of Inactive/Abandoned Mine (AML) Features in New Mexico*
Virginia T. McLemore, NM Bureau of Geology and Mineral Resources (Abstract 13)
- 11:40 am **LUNCHEON**
Tó'łitso, the water is yellow: Water quality results of the San Juan River on the Navajo Nation One Year after the Gold King Mine Spill
Karletta Chief, University of Arizona (Abstract 26)

Wednesday, June 21 Afternoon Session — Open to the public at no charge

- 1:15 pm *Communicating River Data to the Public: the Animas River Community Forum Monitoring Gaps Analysis Committee*
Chara Ragland, Querencia Environmental (Abstract 27)

1:35 *Three-Minute Summary Talks by Conference Presenters*
Moderated by: Stacy Timmons, NM Bureau of Geology and Mineral Resources

Stacy Timmons, NM Bureau of Geology and Mineral Resources
Virginia T. McLemore, NM Bureau of Geology and Mineral Resources
Jean McLain, University of Arizona Water Resources Research Center
Melissa May, San Juan Soil & Water Conservation District
Kate Sullivan, U.S. Environmental Protection Agency, Athens, GA
Johanna Blake, U.S. Geological Survey
Jeb Brown, U.S. Geological Survey
Ethan Mamer, NM Bureau of Geology and Mineral Resources
Talon Newton, NM Bureau of Geology and Mineral Resources
Tom Schillaci, Producer of Environmental Documentary Videos
Karletta Chief, Department of Soil, Water and Environmental Science, UA
Chara Ragland, Querencia Environmental

2:30 pm **BREAK**

3:00 *Panel: Making the Community Whole Again*
Moderated by: Virginia T. McLemore, NM Bureau of Geology and Mineral Resources

Kim Carpenter, San Juan County
Karletta Chief, Department of Soil, Water and Environmental Science, UA
Rich Dembowski, Gold King Mine Citizens' Advisory Committee
Dennis McQuillan, NM Environment Department
Steve Austin, Navajo Nation EPA
Kevin Lombard, New Mexico State University, Farmington
Bonnie Hopkins, New Mexico State University, San Juan County

4:30 pm **ADJOURN**

Thursday, June 22 Field Trip

6:45 am – 9:00 pm
Animas River and San Juan watersheds of northern New Mexico and southwestern Colorado

Conference Planning Committee

Diane Agnew, NM Environment Department
Johanna Blake, U.S. Geological Survey
Robert Cook, U.S. Environmental Protection Agency
Laura Crossey, University of New Mexico
Sam Fernald, NM WRRRI
Jesus Gomez-Velez, NM Tech
Fernando Herrera, NM WRRRI
Forrest John, U.S. Environmental Protection Agency
Trais Kliphuis, NM Environment Department
Michaelene Kyrala, NM Environment Department
Kevin Lombard, New Mexico State University, Farmington
Melissa May, San Juan Soil & Water Conservation Dist.

Virginia McLemore, NMBG&MR
Dennis McQuillan, NM Environment Department
Paul Montoia, City of Farmington
Catherine Ortega Klett, NM WRRRI
Cynthia Peterson, U.S. Environmental Protection Agency
Kristine Pintado, NM Environment Department
Jesslyn Ratliff, NM WRRRI
Jamie Shockey, San Juan Generating Station, PNM
Andy Shuler, The University of New Mexico
Stacy Timmons, NMBG&MR
Butch Tongate, NM Environment Department
Thomas Turner, University of New Mexico