

# Fire & Rain: The Second Responders

## Post-Incident Preparedness

October 30, 2018  
Mission Valley Marriott  
8757 Rio San Diego Drive  
San Diego, CA

### Focus of the Workshop:

The purpose of this workshop is to provide guidance for cities, communities, homeowner associations, water districts, utilities and other stakeholders in the development of a post-incident preparedness plan (PIP) to address erosion, sediment and stormwater issues following the incidence of wildfire. The intent of a PIP is to identify the resources available to characterize – and thus prioritize for remediation – watersheds within the boundary of a burned area that have the potential to experience accelerated erosion, sedimentation, flooding and debris flows post-fire that may impact human health and safety and infrastructure. The PIP can also identify upfront sources of labor, materials and equipment to address immediate action items as well as to plan the more long-term sustainable management practices (SMPs). Subjects that will be discussed include:

**Organizational Concerns:** In-house resources and responsibilities; Contractor/Consultant roles; Communication; Documentation and accountability; Health & Safety program.

**Funding and Permitting Issues:** USDA/NRCS Emergency Watershed Protection Program (EWP); Exigency work; Sources of funding and time frames; Permits and approvals; Documentation.

**Available Resources:** Burned Area Emergency Response (BAER) reports; Aerial imagery (satellite, aircraft, drone); geology, soils, topography, vegetation; drainage features and infrastructure;

**Immediate Action Plans (IAP):** Inspection and maintenance of existing drainage facilities;

**Hazard Assessment and Mitigation Plans (HAMP):** Field hazard assessments; Prioritization of remediation sites; Selection of sustainable remediation practices (SMPs); Cost estimates and preparation of documents for bids.

**Deployment of Sustainable Management Practices (SMPs):** Education and training; Supervise application/installation of SMPs; Monitor and maintain installations throughout first rainy season; Documentation of as-builts.

### AGENDA and INSTRUCTORS

**8:00am Introduction and background**

**MIKE HARDING, HALEY & ALDRICH** has played a key role in the emergency soil stabilization efforts at over seventy (70) wildfire incidents. His efforts have focused on leadership, financial assistance, and technical guidance in the form of post-fire hazard assessment, design of mitigation strategies, and oversight of extensive mitigation implementation efforts.

**8:15am Organizational Concerns**

**CID TESORO, PORT DISTRICT OF SAN DIEGO** was the Director of San Diego County's Watershed Protection Division during the 2003 Cedar Fire and the 2007 Witch Fire. Cid directed post-fire remediation activities and worked with funding agencies to secure federal reimbursement for soil stabilization practices.

**8:45am Funding and Permitting Issues**

**TBD The USDA Natural Resource Conservation Service** administers the Emergency Watershed Protection Program (EWP) was created by Congress to respond to emergencies caused by natural disasters. The program provides financial assistance to help reduce imminent hazards to life and property.

**10:45am Immediate Action Plans (IAP)**

**NANCY GARDINER, HALEY & ALDRICH** has extensive experience in water resources, stormwater quality management, and erosion and sediment control. Having lost her home in the Oakland Hills fire of 1991, she understands first-hand the human tolls that wildfires inflict upon those who lose their property to firestorms and appreciates the importance of preventing secondary impacts due to erosion and mudslides.

**11:15am Hazard Assessment & Mitigation Plans (HAMPS)**

**CHRISTIAN BRAUN, PORT DISTRICT OF SAN DIEGO**, conducted post-fire hazard assessments during while employed by the County of San Diego Department of Public Works and Geosyntec Consultants. He produced damage survey reports (DSRs), cost estimates and engineering specifications for bid documents, implementation and reimbursement.

**ROBERT LEEPER, HALEY & ALDRICH** is a Staff Geologist and small Unmanned Aerial Vehicle (sUAV) pilot. Robert previously worked for the USGS where he conducted post-wildfire debris flow and flash flood monitoring along the wildland-urban interface. Robert's technical training is extended by the unique aerial perspective of the drone, allowing quick assess and rapid documentation of post-fire conditions in previously inaccessible areas.

**1:00pm Implementation of Hazard Mitigation Practices (MIKE HARDING)**

**2:30pm-4:30pm FIELD DEMONSTRATIONS**

**For Information and to Register for Workshop, Please Contact: Mike Harding, Haley & Aldrich, Inc.**

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