

Michael Parenti

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Projects

Emergency Response and Disaster Recovery

Camp Fire Disaster Recovery Operations. Conducted Phase 1 Site Assessments of burned properties within the Camp Fire in Butte County, CA. Utilized ArcGis Collector to record site features. Collected soil samples to confirm that debris removal operations complied with contaminant removal objectives.

Fire Management. Evaluated the potential impacts of fire suppression strategies and tactics on 2018 Delta and Hirz Fires Shasta Trinity National Forest. Made recommendations to the Operations Section on control line locations that would minimize resource impacts. Identified and provided oversight for fireline erosion control and vegetation management treatments. Utilized ArcGis Collector to map fireline locations and completed treatments.

Fire Suppression. Member of three Interagency Hotshot Crews (Tahoe, Redding and Dalton). Highest qualification obtained Strike Team Leader Crew. Deployed on over 100 wildfires in California, the Western US and Alaska.

Burned Area Emergency Response. Modeled hydrology and water quality impacts, stream channel morphology responses, and effects on aquatic ecosystems in areas affected by large wildfires. Developed flow model inputs from satellite imagery and modeled flows using a GIS flow model. Modeled post-fire sediment yields and sediment delivery using RUSLE, WEPP, GIS debris flow models and analysis of reservoir sedimentation.

Vegetation Management

PG&E Quality Control Specialist. Conducted quality control inspections of tree work completed and inventory trees for distribution and transmission facilities (2023). Identified trees that were not in compliance with the PG&E vegetation management scope of work for distribution and transmission facilities. Verified accuracy and completeness of tree inventory data for the PG&E Enhanced Vegetation Management (EVM) Program (2019-2022). Identified trees that were missing from the inventory or were assigned incorrect prescriptions.

PG&E Work Vegetation Management Inspections and Safety Observations (2020). Point of Contact for five Atlas Field Services Safety Observers. Provided oversight for the Safety Observers and worked to solve field issues they encountered. Conducted safety observations and vegetation management inspections and input data into Safety Net and Survey 123. Worked with tree trimming companies to correct any safety issues.

Timber Harvest Plans. Prepared Timber Harvest Plans for private landowners according to the California Forest Practices Act.

Alameda County Flood District Hazard Tree Identification. Developed evaluation factors and digital field data collection forms used to assess trees that had the potential to cause damage to private landowner property and structures adjacent to flood control channels in Alameda County.

National Environmental Policy Act

United States Forest Service, Region 5, Regional Office. Prepared responses to appeals of Forest Land Management Plans, Environmental Impact Statements, and Environmental Assessments. Worked with the Department of Justice to develop litigation strategies for appeals.

United States Forest Service, Lake Tahoe Basin Management Unit, Tahoe, Stanislaus and Shasta Trinity National Forest. Prepared the water quality and hydrologic impacts sections of Environmental Impact Statements and Environmental Assessments for a wide spectrum of forest management activities including timber harvest, road construction and the use of herbicides.

Cal Fed Bay Delta Program. Assisted in the development of the water quality and hydrologic impact sections of the Programmatic Environmental Assessment.

Storm Water Management Plans and Permitting

Caltrans Statewide Permit and Storm Water Management Plan. Led the development of a statewide storm water management program for highway maintenance activities and maintenance facilities. Member of a team that assisted Caltrans in negotiating statewide permit requirements.

San Diego Unified Port District. Conducted reviews of SWPPP's and Urban Storm Water Mitigation Plans submitted to the Port by developers and construction contractors. Assisted the Port in developing Urban Storm Water Mitigation Plan guidance for construction activities.

Storm Water Compliance

Steve Manning Construction. Water Pollution Control Manager for Caltrans District 2 Capstone Project State Highway 299 and Big French Creek Slide Emergency Repair.

Mercer Fraser Company. Water Pollution Control Manager for Caltrans District 2 Middle Buckhorn Project State Highway 299.

Tutor-Saliba Corporation. Water Pollution Control Manager for Caltrans District 2 Antlers Bridge Project Interstate 5.

Storm Water and Erosion and Sediment Control Design

San Diego County Regional Airport Authority. Led a design team that developed plans, specifications, and estimates for a 60-inch outfall, a pervious infiltration area, and storm water treatment filtration system.

San Diego Unified Port District. Developed an Urban Storm Water Mitigation Plan for the Tenth Avenue Marine Terminal. The plan included a porous pavement system and an underdrain system.

Carson Hill Gold Mine. Developed erosion and sediment control plans, specifications, and estimates to support the closure of the Carson Hill Gold Mine.

Water Quality

Catellus Development Corporation. Designed and implemented a storm water monitoring program to test the effectiveness of structural storm water treatment devices.

Santa Clara Valley Water District, Reservoir Oxygenation Study. Analyzed water quality conditions in three reservoirs in Santa Clara County. Developed oxygen demand curves for each reservoir and provided recommendations for oxygenation systems.

Dumbarton Quarry Associates, Dumbarton Lake Quarry. Evaluated water quality conditions of potential sources of water for the conversion of a rock quarry to a recreational lake.

East Bay Municipal Utilities District. Designed Best Management Practices (BMPs) to remove sediment from construction site dewatering activities. Developed and implemented a testing program to determine the sediment removal effectiveness of BMPs.

Hydrologic Studies

Los Angeles Metropolitan Water District. Modeled flow conditions in support of a bridge crossing for pipeline construction.

Riverine and Wetland Restoration

South Bay Salt Ponds Restoration Project. Managed the design of water control structures and the cost estimate for the NEPA/CEQA analysis. Worked closely with wildlife biologists, wetland ecologists, and coastal engineers to develop representative unit costs for levee construction, levee breaching, and pond grading.

City of Fairfield, OH Stream Channel Stabilization. Designed in-stream rock structures to address property damage due to channel incision and lateral migration.

Professional Registration

Registered Professional Forester, #2565

Professional History

Atlas Field Services October 2019 to Present

Clear Creek Technology, President, 2012 to Present

Essel, January 2019 to October 2019

ENPLAN, Senior Environmental Scientist, 2011

ETIC Engineering, Senior Project Manager, 2010

AECOM, Senior Scientist, 2009

URS, Senior Scientist, 2007 - 2008

Brown and Caldwell, 2004 to 2007, Senior Scientist

M. Parenti & Associates, 2000 to 2004, President

URS Greiner Woodward Clyde, 1996 to 2000. Senior Scientist

Uribe & Associates, 1994 to 1996, Senior Scientist

United States Forest Service, Region 5, 1987 to 1994

Education

Bachelor of Science, Natural Resources Planning, Humboldt State University.

Technical Papers and Presentations

Parenti, M. 1997. Altered fire regimes and changes in stream channel morphology. In: Proceedings of the Symposium on Fire in California Ecosystems: Integrating, Ecology, Prevention and Management, November 17-20; San Diego, California.

Parenti, M and S. Loadholt. 2002. Methods for predicting post-fire flows, erosion potential, and debris flow hazards. Poster Presentation Geological Society of America Conference, Denver, CO.

Parenti, M and S. Loadholt. 2003. Analyzing and prescribing post-wildfire erosion control treatments using GIS models. Poster Presentation International Erosion Control Conference, Las Vegas, NV.

Parenti, M. 2008. A Post-Fire Flood Hazard Predictive Methodology. Presentation at Floodplain Management Association 2008 Annual Conference. San Diego, CA.