



Melanie Greene

Scientist

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EDUCATION

**B.S. in Applied Biology;
Aquatic Biology/Ecology
Focus, 1995**

**M.S. in Watershed
Science/Hydrology, 2003**

**AREAS OF
SPECIALIZATION**

- Program/Project Management**
- Planning**
- Environmental Compliance**
- Resource Management**
- Permitting**
- Public Involvement**
- Biological Surveys**
- Water Quality**
- Erosion and Sediment Control**
- Storm Water Management**
- Contract Staffing**

Ms. Greene is presently responsible for mitigation and monitoring, planning and preparation of National Environmental Policy Act (NEPA), California Environmental Quality Act (CEQA) and Tahoe Regional Planning Agency (TRPA) environmental documents and associated field work and data collection and sourcing. She has worked independently, as a member of project-level and regional-level interdisciplinary teams, and in conjunction with numerous government agencies and private entities.

She has 16 years experience working with government agencies (USDA Forest Service, US Environmental Protection Agency, National Park Service, Peace Corps, Americorps, NDEP, California State Water Resources Control Board, Regional Water Quality Control Boards, Caltrans, NDOT and a variety of county and city-level departments) in the areas of surface water hydrology, watershed science, land use planning, resource management and environmental monitoring. She has also worked within the CERCLA process for remediation of a closed public landfill and within the BAER process for emergency rehabilitation of lands impacted by wildland forest fires. She has over 10 years of experience in the Lake Tahoe Basin, working as the water resource specialist on collaborative, interdisciplinary teams to complete environmental impact analysis, documentation, mitigation and monitoring programs and permitting.

Ms. Greene is a Certified Professional in Erosion and Sediment Control (CPESC) and a Qualified SWPPP Developer and Practitioner.

EMPLOYMENT SUMMARY

- 2006-DATE: Hauge Brueck Associates,LLC. Scientist/Environmental Planner
- 2004-2006: Parsons Corporation. Scientist
- 2001-2004: USDA Forest Service. Hydrologist/Heavenly Ski Resort Field Liaison
- 1999-2001: USDA Forest Service. Hydrologic Technician/Field Crew Supervisor
- 1998-1999 Peace Corps Paraguay. Agroforestry Extentionist
- 1998: USDA Forest Service. Hydrologic Technician
- 1997: U.S. National Park Service - Great Basin National Park, NV. Biological Technician
- 1995-1997: Various teaching positions in Atlanta Georgia and Boulder Colorado

EMPLOYMENT

2006-DATE: Hauge Brueck Associates. Scientist and Environmental Planner. Ms. Greene is responsible for preparation of mitigation and monitoring plans and programs, planning and preparation of environmental documents and project permitting, along with data sourcing and analysis and associated field work and data collection.

She is a Certified Professional in Erosion and Sediment Control and Qualified Developer and Practitioner of Storm Water Pollution Prevention Plans and a developer, inspector and reviewer of Erosion and Sediment Control Plans. Ms. Greene has experience with CWE analysis and modeling and applications of MUSLE, WEPP, SWMM/LSPC and Tahoe-focused PLRM and BMP RAM.

Past and present collaborative Partners include: TRPA, Lahontan, LTBMU, NDEP, NDOT, Caltrans, CTC, El Dorado County, Placer County, Douglas County, Washoe County, Alpine County, CDWR, CDFG, STPUD, TCPUD, NTPUD, IVGID, City of South Lake Tahoe, League to Save Lake Tahoe, Tahoe Area Sierra Club, Friends of the North Shore, Friends of the West Shore, North Tahoe Preservation Alliance.

Ms. Greene also assists with plant, wildlife and avian field surveys and biological assessments for various projects in the Lake Tahoe Basin. She is serving as the co-chairperson for the Lake Tahoe Interagency Monitoring Program (LTIMP) for 2009-2011.

2010-Present. Tahoe Donner Public Utility District (TDPUD) and Sierra Green Building Association (SIGBA). Energy Conservation Specialist and Surveyor. Implementing two energy survey programs: Energy Survey Program (ESP) and Residential Energy Survey (RES) for TDPUD customers and for low income households, as qualified by the Truckee Family Resource Center. Energy surveys educate homeowners on basic residential energy use and methods of conservation. Homeowners receive conservation advice and energy saving devices such as door jams, weather stripping, low wattage lighting, water heater jackets, toilet leak detection kits, low flow faucet aerators and shower heads.

2004-2006. Parsons Corporation. Scientist. Ms. Greene was hired as part of the expanding South Lake Tahoe office to fulfill needs and complete tasks in the areas of watershed science and management, water chemistry and BMP compliance, environmental impact analysis, and project permitting. Ms. Greene was responsible for mitigation and monitoring planning, preparation of CEQA and NEPA environmental documents and collection of field data for completion of environmental analysis. During 2004 and 2005, Ms. Greene completed work for the Southern Nevada Water Authority, completing restoration and rehabilitation plans and cost estimates; riparian habitat delineations and vegetation mapping. She also wrote and coordinated the Pilot Recycling Program for Heavenly Mountain Resort and completed the Easy Street Run Hazard Reduction Program, a proposal for new environmentally-sound prescriptions for the construction of ski trails. Other projects included Heavenly Mountain Resort. Ms. Greene completed an EA and Draft EIR/EIS/EIS for the Master Plan Amendment; the Cumulative Watershed Effects Model update; capital projects and on-call planning and permitting services; wildlife surveys for Northern Goshawk and California Spotted Owl; analysis and reporting on over 20 years of surface water quality monitoring data; resort recycling plan; peer review of the Edgewood Creek and SEZ restoration plan; and general planning and permitting needs regarding two underground fuel tank replacement projects. She also was involved with project planning, SEZ evaluations, environmental analysis, and Admin Draft EIS/EIR preparation for the California Tahoe Conservancy's Highway 50 Bypass Bike Trail Project. She was hired on the interdisciplinary team with Jones and Stokes and HDR consultants working on the revision of the Regional Plan for the Tahoe Regional Planning Agency and worked with the UC Davis Research Station EIR/EIS/EIS.

2004: USDA Forest Service. Monitoring Hydrologist/Heavenly Ski Resort Field Liaison.

Ms. Greene administered the Heavenly Mountain Resort Monitoring Program and supervised field crews for the collection of a wide variety of environmental monitoring data to measure project success and inform adaptive management decision making. Duties included: scheduling and budgeting for field

evaluations and surveys for water quality, BMPs, effective soil cover, road conditions, stream condition inventories, air emissions and macroinvertebrate and bioassessment monitoring; assisting in long range planning and project prioritization; Cumulative Watershed Effects (CWE) modeling; statistical analysis and reporting for quarterly, annual, and comprehensive monitoring reports and long-term program development; and collaboration with regulatory agencies and multiple stakeholder. Ms. Greene supervised regional and forest level field crews for field training and data collection; data analysis and reporting for quarterly, annual, and comprehensive monitoring reports and long term program development; facilitate and interpret State discharge permits; work with multiple parties/agencies towards TMDL development and compliance for Heavenly Valley Creek. She also worked on Region 5 interdisciplinary team developing and testing protocols for Class I Wilderness long-term and synoptic lake sampling for purposes of determining effects from air emissions in support of on-going litigations. Protocol tested included: lake water chemistry sampling for determination of acid neutralizing capacity; shore zone macroinvertebrate and amphibian surveys; fish gill netting, identification, morphology, and tagging; vegetation zoning and soil sampling. Ms. Greene performed maintenance and weekly monitoring of a "Pump and Treat" Ozonation System for the Meyers Landfill Project; collected weekly well samples for analysis of vinyl chlorides, benzene and MTBE; relayed lab results to STPUD for permit requirements; composed quarterly and annual reports; served as the project librarian and database manager and Community Relations Liaison.

2000-2001: USDA Forest Service. Hydrologic Technician/Field Crew Supervisor. Ms. Greene assisted with development and implementation of water quality and soil monitoring programs, served on the Forest Monitoring Team and project-specific interdisciplinary teams. Completed Watershed Inventory Needs (WIN) assessments, which required the sourcing, analysis, and interpretation of watershed data for input into environmental reports and formulation of management recommendations for planners, designers, managers, and the public. Duties included: contracting for, maintaining and supervising the LTBMU Water Quality Laboratory and its equipment, performing sample preparation for nutrient analysis, turbidity, specific conductivity, and suspended sediment, recording and maintaining laboratory logs in fulfillment of QA/QC protocols, and preparation of quarterly, annual and comprehensive monitoring reports. She was charged with the maintenance and weekly monitoring of a "Pump and Treat" System for the Meyers Landfill Project; collected weekly well samples for analysis of vinyl chlorides, benzene and MTBE; relayed lab results to South Tahoe Public Utility District for permit requirements; project librarian and database manager; Meyers Landfill Community Relations Liaison. Ms. Greene also collaborated with a variety of stakeholders, including TRPA and Lake Tahoe Environmental Education Committee staff, to organize the First Annual Lake Tahoe Snapshot Day to promote watershed education, volunteer monitoring and stewardship.

1998-1999: Peace Corps Paraguay. Agroforestry Extensionist. Implemented methodologies and field applications of integrating tree plantings and tree nurseries into traditional agricultural practices of developing countries, focusing on community involvement and sustainability; lived and worked in a remote village setting, working primarily with small farmers and cooperatives; Designed and installed soil conservation and erosion control structures on steep farmlands and roads; Seed collection, preparation, germination, and seedling transfer; nursery design and maintenance; Worked with Community and Women's Cooperative groups to develop alternative economic resources; Beekeeping

1998: USDA Forest Service. Hydrologic Technician. Duties included: baseline and spring runoff water quality monitoring; storm sampling; stream condition inventorying; riparian health evaluations (Pfankuch); BMP efficiencies monitoring, evaluations, reports (prescribed burns, mechanical treatments, timber harvesting, road obliteration) and Monitoring Evaluation Process (MEP) Program design; effective soil cover surveys (Heavenly Valley Ski Resort); monitoring of prescribed burn projects; vegetation indexing; collection of GPS data and creation of GIS map products

1997: U.S. National Park Service-Great Basin National Park, NV. Biological Technician. Rapid Assessment of the health of 55 miles of perennial and intermittent stream corridor and 55 acres of lentic ecosystem utilizing Bureau of Land Management's Proper Functioning Condition guidelines; Determined trends in watershed health and active rangelands; formulated management strategies and recommendations for the Natural Resources Department for watershed improvement projects

1995-1997: Various Teaching Positions. Atlanta, GA and Boulder, CO. Biology Teacher and Special Education Para-Professional-Boulder County School District; Americorps Volunteer with Greater Atlanta Community Corps (Environmental Outreach and Outdoor Education); Internship with the Environmental Protection Agency, Region 4-Water Resources Division

PROJECTS

Environmental Documentation

City of Sutter Creek, CA	Virgin and Muddy Rivers
Housing Element Negative Declaration 2007	Surface Water Development Project
Redwood City, CA	Three Lakes Groundwater Project
Saltworks Project Environmental	Coyote Springs to Moapa Pipeline
Documentation, 2010-date	Tahoe Regional Planning Agency (TRPA), CA
California Tahoe Conservancy, CA	and NV
Revised Greenway Shared-Use Trail Project	Boulder Bay Community Enhancement
IS/IEC	Program Project EIS, 2009
Regional Water Quality Control Board - Lahontan	TRPA & El Dorado County, CA
Region	El Dorado County Playing Fields EA/MND,
Bishop Mill Project IS/MND	2005
South Tahoe Public Utility District, CA	TRPA and Placer County, CA
Indian Creek Reservoir TMDL and	Homewood Mountain Resort Ski Area
Oxygenation System Neg Dec, 2007	Master Plan Draft and Final EIR/EIS
Recycled Water Facilities Master Plan	TRPA & South Tahoe Public Utility District, CA
EIR, 2007-2009	Luther Pass Pump Station EA, 2009
Recycled Water Facilities Master Plan	Bayview Well EA, 2007
Supplemental EIR, 2007-2009	TRPA, USFS, & Heavenly Ski Resort
Recycled Water Facilities Master Plan CEQA	Heavenly Ski Resort Master Plan Amendment
Plus documentation	EIR/EIS/EIS,2004-2007
Headworks Replacement Project MND	Tulare County
Headworks Replacement Project Stormwater	Bosman Dairy EIR and Use permit
Pollution Prevention Plan	Decision Documents, 2010
Southern Nevada Water Authority, NV	U.S. Bureau of Reclamation & SNWA
In-State Water Resource Development	South Valley Facilities Expansion EIS,
Projects	2007-2008
Clark Lincoln and White Pine Counties	
Groundwater Development Project	

Public Outreach and Consent Building

Heavenly Ski Resort and TRPA, CA & NV	South Tahoe Public Utility District, CA
Ski Area Master Plan Amendment	Recycled Water Facilities Master Plan
Community Workshops, 2004-2007	and EIR public meetings, 2007 - 2011
CTC, TRPA and USDA Forest Service, CA	
Greenway Shared Use Trail Project	
Community Workshops and public scoping	
meetings, 2004 - 2011	

Environmental Monitoring and Reporting

Heavenly Valley Ski Resort Annual
Environmental Monitoring-Water Years, 1998 -
2004

MEMBERSHIPS, REGISTRATIONS, AND CERTIFICATES

Certified Professional in Erosion and Sediment Control (2010 - Present; CPESC # 6120)
Lake Tahoe Interagency Monitoring Program (LTIMP) Co-Chair (2009-Present)
LTIMP Participant (1999-Present)
Lake Tahoe TMDL Stormwater Symposium (2010)
NPDES Phase II Public Elements: Promoting Sustainable Behavior (2011 - Forester University)
Fluvial Geomorphology 101 (2011 - Forester University)
BMP Maintenance (2011 - Stormwater USA)
Linear Construction - Stormwater Construction for Road and Utility Construction (2011 - Stormwater USA)
Residential and Small Business Energy Auditing (LTCC GSE131B)
Burn Area Emergency Rehabilitation (USDA Forest Service Region 5 – 2001 to 2004)
HAZWOPER (Cal-OSHA Title 8) Certification: 40 Hour Health and Safety Training for Hazardous Waste Workers (1999-2008);
USFS Contract Officer Representative (COR) Levels I, II and III (1999-2001)
Wildland Firefighter “Red Card” Certified (1999 to 2004)
Heavenly Master Plan Amendment ID Team (2004-Present)
CTC Bike Trail Project ID Team (2004-2011)
Lake Tahoe Environmental Education Coalition (LTEEC-1999-2004)
California Alpine Resort Environmental Cooperative (CAREC-2001-Present)
Various Project-Level Interdisciplinary Teams for the Lake Tahoe Basin Management Unit (LTBMU-1998-2004)
Various Burn Area Emergency Rehabilitation (BAER) Interdisciplinary Teams across California (1999-2004)
USDA Forest Service-Region 5 Synoptic Lake Monitoring Team (2000-2003)
South Lake Tahoe Women’s Center Volunteer (2000-Present)
Blue Lake Aikido (2000-Present)
Various Project Interdisciplinary Teams (1999-Present)
Lake Tahoe Community College Green Club (2008-2009)
American Planners Association - Green Team (2008-2009)
California Alpine Resort Environmental Committee (2001-2004)
Lake Tahoe Snapshot Day Committee (2001-2004)
Lake Tahoe Environmental Education Coalition (1999-2003)
Earthship Biotechnology Intern (2006)
Americorps Volunteer – Atlanta, GA (1995-1996)
EPA Region 4 Intern – Atlanta, GA (1995)

PUBLICATIONS

Greene, Melanie. 2003. Thesis: Analysis of Relations Between Environmental Factors and Stream Attributes: USDA Forest Service, Region 5, Sierra Nevada Range. Colorado State University, Department of Forest, Rangeland and Watershed Stewardship.

Greene, M. and Mann, M. 1997. Great Basin National Park-Proper Functioning Condition Report. National Park Service, Baker, NV.