



## **BARRY HECHT**

Principal Hydrologist/Geologist

### **Education**

PhD Cand.      Geography, University of California, Berkeley, 1975  
M.A.            Geography, University of California, Berkeley, 1972  
B.S.            Geology (Honors), University of California, Santa Cruz, 1970  
A.B.            Geography and Regional Planning (Honors), University of California,  
Santa Cruz, 1970

### **Registrations and Certifications**

Registered Geologist (#3664), California  
Certified Engineering Geologist (#1245), California  
Certified Hydrogeologist (#50), California  
Registered Geologist (#232), Alaska  
Registered Geologist (#1262) and Engineering Geologist (#E1262), Oregon  
Registered Environmental Assessor (#22), California  
Certified Ground Water Professional (#235), Association of Ground Water Scientists & Engineers  
Certified Professional Geologist (#7786), American Institute of Professional Geologists

### **Summary of Experience**

For more than 35 years, Mr. Hecht has directed geomorphically- and geologically-oriented investigations of complex hydrologic, water quality, and sediment issues, in both surface and ground water systems.

### **Experience**

1988-Present            Principal, Balance Hydrologics, Inc.  
  
Directs and conducts investigations of geology geomorphology, ground water, water quality, sedimentation and sediment quality. Principal areas of activity are habitat hydrology, aquifer recharge and other surface/ground water interaction, channel stability, naturally-occurring trace metals and geologic water-quality influences, post-fire and –flood channel recovery and effects of land-use practices on surface and shallow ground waters. Responsible for overall technical direction and integration of the firm.

1982-1988            Chief Hydrologist and Geologist, Kleinfelder  
  
Responsible for investigations of hydrologic, hydrogeologic and geologic investigations, initially in California and then firm-wide. Directed studies of sediment transport and water quality conditions as they affected streams and wetland habitats for federal, state and local agencies. Supervised studies and

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analyses of ground water movement or quality at both the site and regional scale. Directly managed firm-wide alluvial hydrology program, providing integrated analysis of surface and ground waters in alluvial systems. Led firm's pesticide mitigation group, including managing remedial investigations at a pesticide-formulator Superfund site, plus major leachability studies at golf courses, cut flowers and row crop sites.

1977-1982

Principal Hydrologist, H. Esmaili & Associates

Responsible for hydrologic, geomorphic and geologic investigations at HEA. Directed sediment transport and water quality monitoring programs in many western states. Established a sedimentologic laboratory. Directed multi-disciplinary groundwater investigations in several areas of California, Oregon and Idaho; led radionuclide and hazardous waste migration studies. HEA merged into Kleinfelder during August 1982.

1973-1977

Doctoral studies at U. C. Berkeley. Woodrow Wilson Fellow, and U.C. Santa Cruz. Lecturer in Environmental Studies and Director of student field program.

Primary research in hydrology and geomorphology. Served as scientific assistant at the USGS Bedload Research Project near Pinedale, WY. Worked with USFS personnel at Idaho Panhandle National Forest in field surveys of channel geometry and sediment transport rates. Taught courses in hydrology, field methods, geomorphology, and watershed management. Field instruction programs were carried out for 150 students with three-member staff team. Led resource-planning team for Ahtna, Inc., Copper Center, AK.

1968-1972

Santa Cruz County Planning Department, California. Assistant Planner.

Compiled geologic and hydrologic data, coordinated aquifer management, drafted quarry ordinance and chaired County's Watershed Committee.

### **Other**

2006- Present

Member, Science Advisory Panel, Southern California Coastal Watershed Restoration Program (SCCWRP)

2001-Present

Lead Hydrologist, Tiger Salamander Recovery Team (USFWS)

2000- Present

CalFed, Technical Merit Evaluator

1993-Present Instructor (intermittent), University of California Extension: *Hydrology for planners; Channel restoration; Geomorphology*

1991-1999 On-call Expert (Geomorphology and Hydrology): State of California Coastal Conservancy

1983-1997 Instructor (intermittent), San Francisco State University Extension:

*Glacial and periglacial geomorphology; hydrology and geomorphology field course (Wrangell St. Elias National Park)*

1982-1992

Member, Upper Sacramento River Salmon and Steelhead Advisory Committee, California Department of Fish and Game

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### **Professional Affiliations**

American Geophysical Union  
American Water Resources Association  
Association of State Floodplain Managers  
Association of Ground Water Scientists and Engineers  
Groundwater Resources Association of California  
Society of Wetland Scientists  
American Society of Agricultural Engineers  
Association of Environmental Professionals  
California Watershed Management Council  
Northern California Geological Society

### **Expert Testimony**

EPA Administrative Law Hearings  
U.S. Attorney's Office  
State of California, Water Resources Control Board  
State of California, SWRCB Division of Water Rights  
State of California, Coastal Commission  
County of Santa Clara (California)  
County of Santa Cruz (California)  
County of Trinity (California)  
Joint Federal/State Land Use Planning Commission (Alaska)  
State of Alaska, Department of Natural Resources  
City of Santa Barbara  
Marin Municipal Water District  
Montecito Water District  
Cenaliurrit (Southwest Alaska Coastal Zone Management District)  
Association of Village Council Presidents, Bethel, Alaska  
Yurok Tribe of Northern California  
Santa Maria Valley (California) Adjudication  
Klamath River UE170 FERC Re-Licensing Hearings  
Civil Litigation (Miscellaneous)

### **Publications**

List of over 35 technical publications provided upon request