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 229 Tewksbury Ave., Pt. Richmond, CA 94801
 TEL: 510-307-9943; FAX: 510-232-2823



James A. Jacobs, P.G., C.H.G., C.P.G., QSP/QSD has 34 years of experience as a geologist and environmental scientist focused on answering geologic, environmental impairment and forensic questions. Since 2002, he has also been an elected official of a publically owned treatment works (POTW), the Sewerage Agency of Southern Marin (SASM) and a sewer collection agency, Tamalpais Community Services District (TCSD). He has served as president for both agencies.

He co-founded an environmental company in 1990 and has supervised a team of scientists on a variety of environmental projects. Other types of technical projects relate to peer review and contractor evaluation or performing geological resource potential studies and teaching seminars and classes. Since 1990, he has worked extensively on and written widely about the assessment and remediation of soil and groundwater impacted by petroleum hydrocarbons, chlorinated solvents, and heavy metals. He is the qualifying individual for the California contractor license (#799370) in general engineering, drilling, building, hazardous waste removal, and asbestos removal. He has supervised dozens of underground storage tank removal projects. He strongly believes in student mentoring, and since 2010, has been the founder and AIPG Sponsor for the University of California at Davis AIPG Student Section and enjoys teaching undergraduate and graduate students as well as professionals. His current research focus has been on the potential for vapor migration of methane and other volatile compounds into sewer systems and possible exposure pathways in homes and offices.



Publications: He has developed, co-authored and edited books on topics such as MTBE (2000), Chromium(VI) (2005) and most recently, Acid Mine Drainage, Rock Drainage and Acid Sulfate Soils (2014; Wiley and Sons), Oil Spills and Gas Leaks: Environmental Response, Prevention, and Cost Recovery (2014, McGraw-Hill) and Fracking and Development of Unconventional Oil and Gas Resources (in press, McGraw-Hill). Jacobs has bachelors and masters degrees in geology. He has co-authored over 100 technical articles on water treatment and environmental issues and has given over 50 technical presentations with abstracts.

Fulbright Scholar: He won four Fulbright Senior Specialist awards in environmental engineering and science teaching post-graduate workshops in risk-based subsurface environmental management and sustainable remediation methods, including field sampling methods, laboratory analysis, data evaluation and reporting. The Fulbright grants were for University of West Indies (Mona Campus), Jamaica (2003 and 2004); Afeka Engineering College, Israel (2008), and SRTM University, India (2012). He also taught at the Technical University of Munich, Germany in 2011. He served on the Fulbright Peer Review Committee for the Environmental Science/Geology candidates from 2007-2011.

Sewer Collection Agency Director and Wastewater Plant Commissioner: As a public policy specialist and an elected public official, Mr. Jacobs has also been involved with park and recreation areas at the community services district, including trail building and trail maintenance. He has been a leader in local storm-water and wastewater issues and treatment at two local sewer plants. Since 2002, he has served on the Board of Directors of the Tamalpais Community Services District (<http://www.tcsd.us/>), the local sewer, refuse and recycling agency serving 2,500 homes. He is an elected Commissioner of the Sewerage Agency of Southern Marin (SASM) since 2002, and was president (2009-2011) at the wastewater agency that operates the treatment facility in Mill Valley, California. From 2002 to 2009, he has been a TCSD representative to the Sausalito-Marín City Sewer Agency. He has promoted and supported sustainable environmental practices within the TCSD, a certified green business which now offers residents recycling of electronic waste, fluorescent bulbs, medicines, batteries, paper and cardboard. In 2009, 1 million less lbs of waste were processed by TCSD than in 2006. In 2013, TCSD won the Marin County Green Business of the Year award due to the successful recycling efforts and reduction in wastes shipped to the local landfills.

Laboratory Feasibility Testing for Remediation: Jacobs has designed and implemented laboratory feasibility testing programs and performed *in-situ* soil and groundwater treatment of chromium (VI), petroleum hydrocarbons, solvents as well as recalcitrant compounds such as perchlorate, MtBE and metals. He has served the environmental community as an officer or board member in a variety of professional societies, including the



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Groundwater Resources Association, the California Council of Geoscience Organizations and the California Section of the American Institute of Professional Geologists. He is on the Scientific Advisory Board of the Association for Environmental Health and Sciences.

Education: Degrees

M.A. Geology, University of Texas, Austin, Texas, USA, August 1981
B.A. Geology, English, Franklin and Marshall College, Lancaster, Pennsylvania, USA, June 1978

Academic Awards

1981: R.K. DeFord Field Scholarship Award; University of Texas at Austin
2003: Fulbright Senior Scholar Award, Univ. of West Indies, Kingston, Jamaica; February–March; CIES
2004: Fulbright Senior Scholar Award, Univ. of West Indies, Kingston, Jamaica; March–April; CIES
2008: Fulbright Senior Scholar Award, Afeka Engineering College, Tel Aviv, Israel; March–April; CIES
2007–2011: Selected and Served on Fulbright Peer Review Committee; CIES
2012: Fulbright Senior Scholar Award, SRTM University, Nanded, India; January – February; CIES

Professional Awards

1999–2004: Elected to the Board of Directors, Groundwater Resources Association of California
1996–1998; 2009–2010: Elected President of San Francisco Branch, Groundwater Resources Association
1998: Groundwater Resources Association; President's Tribute Certificate
2000: Elected National Advisory Board, American Institute of Professional Geologists
2001: American Institute of Professional Geologists, National Presidential Certificate of Merit
2004: California Council of Geosciences (CCGO) “Gold Award”
2010: American Institute of Professional Geologists, National Presidential Certificate of Merit
2005–2011: Selected for Advisory Board, Association for Environmental Health and Sciences
2011: American Institute of Professional Geologists: Honorary Membership Award
2013: American Institute of Professional Geologists: Elected National AIPG Vice President

Public Service as a Publicly Elected Official

2002–2014: Director; Tamalpais Community Services District; President or Vice President (2004-2012)
2002–2014: Director; Sewerage Agency of Southern Marin; Vice President (2008), President (2009-2011)

Classes and Workshops Taught

Jacobs designed and taught the Sustainable Remediation Methods for Soils and Water (X-451) for the University of California, Berkeley Extension program for Spring 2011 and Fall 2011. Jacobs has taught other environmental workshops and graduate classes focused on sustainable environmental practices, recycling, and practical remediation efforts as part of the Fulbright grant program. He has also taught workshops at national meetings, including the following:

Two Phase Extraction Methods, Application for Groundwater and Soil Remediation. A four hour Workshop presentation given by Mehmet Pehlivan, James Jacobs and others: American Institute of Professional Geologists, 2009 National Meeting, Grand Junction, Colorado; Association for Env't. Health and Sciences, 2008, National Meeting, San Diego, California; Association for Environmental Health and Sciences, 2010, National Mtg., San Diego, California; Battelle Chlorinated Solvent Conference, 2008, Monterey, California

RBCA Grows Up: Introduction to Environmental Hazard Evaluation and Advanced Approaches for Site Investigations. A four hour Workshop presentation given by Roger Brewer, James Jacobs and others: Association for Environmental Health and Sciences, 2009, National Meeting, San Diego, California

Licenses and Certificates

Registered/Licensed Geologist: California #4815; Alaska #A227, Arizona #39066, Idaho #693, Oregon #G-1147, Pennsylvania: # 1152G, Texas Geology #11552, Wyoming: #PG-2328, Washington #1815



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Certified Hydrogeologist: California #0088, Washington #1815
Certified Professional Geologist, American Institute of Professional Geologists, # 7760
Certified Petroleum Geologist, American Association of Petroleum Geologists, #6231
Registered Environmental Assessor I: California # 1511; REA II: #20171 (program discontinued).
Registered Asbestos Inspector and Management Planner: AHERA Accredited; OLA Registration # 0000450
Responsible Managing Officer: License #624461: General Engineering Contractor,
Certified for Asbestos Abatement, Hazardous Materials Removal, C-57 Well Drilling.
California Commercial Driver License: C with Hazmat Endorsement
California Qualified SWPPP Developer (QSD) and Preparer (QSP); Certificate #21430
Responsible Managing Employee: California State License Board (CSLB): General Engineering (A), certified
for Haz-Mat Removal, Drilling (C-57), Asbestos Abatement and Building (B)

Peer Review

Mr. Jacobs serves in a peer review capacity for several organizations. He served from 2006 to 2011 on the Fulbright Peer Review Committee, screening potential Fulbright scholars in environmental sciences. From 2005 to 2010, he served on the National Screening Committee for the American Institute of Professional Geologists for candidates applying for the Certified Professional Geologist designation. Since 2005, he has been on the Advisory Board for the Association for Environmental Health and Sciences. The duties include the review of abstracts submitted for presentations for the annual San Diego, California Soils, Sediments, and Water conference and reviewing student presentations. For litigation support services, offered since 1990, professional peer review is occasionally required. In October 2011, Jacobs performed a peer review requested by the Lahontan Regional Water Quality Control Board for the University of California of the 2007 PG&E Hinkley Site California Chromium Background Study Report. The Cr(VI) (sometimes called hexavalent chromium) contamination at the Hinkley site was at the center of the Erin Brockovich movie.

Professional History

1990- present; Principal Geologist; The Auger Group, Inc., dba Clearwater Group and Environmental Bio-Systems. Supervised dozens of employees. Focused on over a thousand soil vapor, soil, and groundwater sampling and subsurface remediation projects. Participated as an expert witness in numerous environmental forensic cases. Areas of work: California, Arizona, Oregon, Washington, Montana, Pennsylvania

1989-1990 Project Geologist, Harding & Lawson Associates (now AMEC), Novato, California. Environmental projects in California and Arizona.

1986-1989 Senior Oil Geologist, Petrofina Delaware (now Total), Houston, Texas. Review oil prospects and farm-in opportunities in California.

1981-1985 Exploration Geologist, SOHIO Petroleum, San Francisco, California and Anchorage, Alaska. Perform well site operations on the North Slope of Alaska, generate oil and gas prospects offshore Alaska.

1979-1981 Hydrogeologist, Institute of Applied Sciences, North Texas State University, Denton, Texas. Developed an archeological exploratory method using fluvial geomorphology with over 80% success rate.

Professional Affiliations/Societies

Groundwater Resources Association of California: Member, 1994 to present; Director for 8 years, President of SF Branch for 5 years

American Institute of Prof. Geologists: Member; Certified Professional Geologist, since 1989, National VP, Pres. Cal. Section, UC Davis AIPG Student Section Sponsor; National Screening Committee 2005-2010.

National Water Well Association: Member since 1989

American Association of Petroleum Geologists: Member since 1979, Certified Petroleum Geologist

Assoc. for Env't, Health and Sciences (AEHS): Member, since 2002, Scientific Advisory Board: since 2005

ASTM International: Member; Rock, Soil and Water Sampling Standards Group; since 2014.