

David M. Bloom

Project Manager / Senior Environmental Geologist

QUALIFICATIONS

Professional experience consulting in the environmental geology field since 1990, currently a project manager assigned to support environmental projects for primarily U.S. Navy customers in the southern California region. Primary project management responsibilities included budget, task planning, coordination, and execution of site assessment and remediation projects at sites under state and local regulatory oversight. Project management typically requires planning data collection, executing sampling and analysis plans, and communicating data results in real-time and at the conclusion of the project. Types of projects include assessment of the nature and extent of contaminated soil and groundwater to comply with the Navy Installation Restoration Program, modeled after U.S. EPA's CERCLA cleanup protocols, compliance with RCRA and storm water regulations, and underground storage tank assessment and cleanup. Some sites are under Cleanup and Abatement Orders by regulatory oversight agencies, Preliminary Endangerment Assessments for hazardous waste requiring a great deal of interaction, cooperation, and communication with local and state agencies. Such communication tools include the Triad website, email, and meetings. Communicating large amounts of data may benefit from data visualization in graphical format using, for example, Geographic Information System (GIS) tools. Where applicable, this position includes integrating GIS technology into project applications.

Responsibilities include close communication with customers to make sure project activities meet the expectations envisioned by the customer, frequent communication with oversight agencies and other regulators so that an acceptable conclusion may result with minimal difficulty and expense. As project manager, responsibilities include making sure project budgets are met, properly trained and experienced staff are assigned to field and office tasks, and project documents receive an appropriate level of quality control.

Project budgets ranged from \$27,000 to \$460,000 in 2004-2008.

EDUCATION

BA, 1985, Geology, Pomona College, California.

Graduate courses in hydrogeology and multi-phase flow, Geological Sciences, SDSU, Calif.

REPRESENTATIVE PROFESSIONAL ASSIGNMENTS:

Anteon (General Dynamics as of 6/8/06), San Diego, CA. – 2002-Present

- *Dugway Proving Ground, Utah.* Soil sustainability study. Designed and executed study to measure physical and biological effects of military vehicles on desert soil.
- *Naval Air Facility El Centro, CA.* U.S. Navy, Naval Facilities Engineering Command. Interpreted historical data including aerial photography and collected field data on soil using field portable x-ray fluorescence to show that hazardous conditions existed at suspected former dumping site.
- *Naval Air Facility El Centro, CA.* U.S. Navy Region Southwest and Naval Facilities Engineering Command. Environmental Compliance. Removal of Underground Storage

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Tanks (USTs). Assessment and cleanup of leaking underground fuel tanks. Prepared master work plan to manage underground tank program. Compiled historical maps and data, and current data in GIS database. Created an accurate master base map of NAF El Centro for locating previously “missing” USTs.

- *Naval Air Facility El Centro, CA*. U.S. Navy Region Southwest. Natural Resources Management. Collected position data on natural resources present on the four training ranges of NAF El Centro. Used GPS, historical maps, historical aerial photos, and GoogleEarth.
- *Point Loma IR Site 1, CA*. Installation Restoration. U.S. Naval Facilities Engineering Command Southwest. Provided technical oversight of documents prepared for a Time-Critical Removal Action for cleanup of this rubble site containing buried automobile shredder residue. Prepared an analysis of assessment data and prepared a technical report on the findings of 58 subsurface borings. Prepared a construction Storm Water Pollution Prevention Plan to support cleanup. Provided as-needed support to U.S. Navy Remedial Project Manager.
- *Naval Weapons Station Seal Beach and Detachment Fallbrook, CA* Compliance. U.S. Navy Region Southwest. For both facilities, created a 5-year update to Storm Water Discharge Management Plans, Storm Water Pollution Prevention Plans, and Storm Water Management Plans. Performed annual site compliance inspections at all 38 SWPPP-eligible industrial facilities in 2005 and 2006.
- *Point Loma Fuel Farm Site, CA* U.S. Navy Region Southwest and NAVFAC Southwest. Created budget, task plans, coordinated, and executed site assessment projects at major fueling facility. Site is under state and local regulatory oversight. Efforts included assessment of areas suspected or actually affected by contaminants, including fuels, PCBs, metals, and semi-volatile and volatile organic compounds. Specific projects include assessment and closure of four leaking underground fuel tanks, assessment of the extent and nature of suspected contaminated soil, and an evaluation of risk to marine ecology if the adjacent soil and bay water will have been effected by releases at the fuel farm.
- *Point Loma Fuel Farm Site, CA* Defense Logistics Agency, Defense Energy Support Center. The long history of fueling at this facility made incorporating historical analytical data and aerial imagery into the GIS dataset critical to understanding the nature and extent of suspected contamination. The GIS was used to analyze contaminant concentrations and distribution to optimize sampling plans and communicate results.

Ninyo & Moore, San Diego, CA. – 1993 - 2002

- *Investigations in and adjacent to San Diego Bay, CA*. Program manager for environmental investigations.
 - Created sampling plan and lead sampling team to assess the extent and nature of contaminated sediments at a former shipyard in San Diego Bay as part of a redevelopment project. Used innovative sediment core device to collect discrete sediment samples in relatively deep water from a boat.

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- Performed Phase I and Phase II Environmental investigations to support a land transfer between major property holders adjacent to San Diego Bay. Authored Quality Assurance Project Plan prepared in accordance with Data Quality Objectives agreed to among the major parties and stakeholders.
- To evaluate the presence and possible sources of potential persistent contaminants, collected soil and stream sediment samples in Sweetwater River and adjacent wetlands, Telegraph Canyon at its confluence with San Diego Bay, and Switzer Creek within the tidal influence of San Diego Bay.
- Prepared an Action Memorandum and lead the assessment and remedial design team of a former inactive landfill, north San Diego Bay.
- Prepared a Storm Water Pollution Prevention Plan for airport facility adjacent to San Diego Bay.
- Prepared contractor documents and observed contractors practices for compliance with Air Pollution Control District regulations, OSHA requirements, and Solid Waste Local Enforcement Agency guidelines for redevelopment of harbor terminal facilities, part of a former burn dump site and the site of manufactured gas plant waste.
- *City Schools, San Diego, CA.* Performed Preliminary Endangerment Assessments (PEAs) for industrial and school sites.
- *City of San Diego, CA.* Prepared technical documents for air emission, geological, hydrogeological, and hazardous waste elements of NEPA/CEQA projects.
- Established and updated company-wide technical standard operating procedures.
- Supervised and trained staff to perform Phase I environmental site assessments (ESAs).

Geraghty & Miller, Inc., West Covina, CA – 1990 - 1992

- Field geologist at sites contaminated by LUSTs and industrial waste. Collected samples of soil and groundwater for assessment. Logged borings. Modeled groundwater basin using finite-element techniques. Plotted chemical contaminant patterns and aquifer test data. Managed databases of chemical parameters for LUST and CERCLA sites. Specific projects included:
 - *San Gabriel Valley, CA Superfund Site* Compiled and analyzed data from a multi-level aquifer system contaminated with chlorinated solvents. Made comprehensible over 10 million individual data values using graphical presentation.
 - *Visalia Pole Yard, Visalia, CA.* Acquired data during 5-day aquifer test. Analyzed drawdown and recovery data in real time.
 - *Burbank, CA. Superfund Site.* Conducted a comprehensive investigation of potentially responsible parties (PRPs) related to a chlorinated volatile organic compound plume in a

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San Fernando Valley drinking water aquifer. Over 50 viable PRPs were identified in support of remedial action cost allocation.

- *Nitrate Study, Oxnard, CA.* Used finite element modeling to evaluate nitrate contamination in groundwater underlying the Oxnard Plain for the water district.
- *ARCO, Southern California* Used groundwater monitoring wells and remediation systems at various gasoline stations to assess and cleanup contaminated groundwater.

Benton Engineering, Inc., San Diego, CA – 1990

Collected, processed, prepared, and tested disturbed and undisturbed samples for foundation design.

PUBLICATIONS AND PRESENTATIONS

Officer since 2004 and immediate past president (2007), San Diego Association of Geologists.

“This Rock Tells A Story” a permanent public installation interpreting the geology at the 70th Street Trolley Station, Metropolitan Transit System, San Diego, 2007.

Lead editor, “Geology and History of Southeastern San Diego County, California” published by San Diego Association of Geologists, San Diego, 2006.

Appointed Member of Technical Advisory Committee and Subject Matter Expert, California Board for Geologists and Geophysicists, Sacramento, CA. Participate in quarterly TAC meetings to advise the Board. Attend workshops to improve State licensing examinations and establish passing scores. Wrote items for California Geology, Engineering Geology, and Hydrogeology specialty examinations, April 2000-present.

Co-Author "Painting the PCB Picture" published in Environmental Protection magazine, October 2000.

CERTIFICATIONS

California Professional Geologist #6192, 1995

California Certified Hydrogeologist #585, 1998

California Certified Engineering Geologist #2111, 1998

Hazardous Materials Management Professional Certificate, University of California, San Diego, 1994

Site Assessment and Mitigation Professional Certificate, University of California, San Diego, 1996

TRAINING

Human Health Risk Assessment, Naval Civil Engineer Corps Officers School (CECOS), Port Hueneme, CA, April 2003.

Geographic Information Systems (GIS) and Geostatistics, CECOS, Port Hueneme, CA, March 2003.

Environmental Background Analysis, CECOS, Port Hueneme, CA, January 2003.

Health and Environmental Risk Communication Workshop, CECOS, Port Hueneme, CA, December 2002.

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Ecological Risk Assessment, CECOS, Port Hueneme, CA, September 2002.

Unexploded Ordnance (UXO) Identification and Safety Class, NAVSEA, EOD Technology Division, August 2002

OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER), 40-hour with annual 8-hour updates, November 2007 (last update).

OSHA Supervisor (HAZWOPER) Training 8-hour Course, ETAC, 1998.

Permit Required Confined Space Operations Course, 8 Hours, Ninyo & Moore, San Diego, CA, 1998. OSHA 40-Hour HAZWOPER

REFERENCES AVAILABLE UPON REQUEST