Jacqueline Sequence

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PROFILE

With over 17 years of experience in environmental consulting specifically related to subsurface soil and groundwater assessments, site characterizations, and groundwater monitoring programs, I have successfully managed a wide range of technical projects, budgets and on-time, on-budget delivery of quality products. In addition, I have participated in multi-volume reporting efforts for CERLCA and RCRA sites. Work experience includes field studies, analytical support, and senior review of other technical professionals.

My background includes extensive field experience working with a wide variety of drilling rigs and sampling equipment in settings ranging from industrial to residential, and I bring first-hand knowledge of the importance of safety and planning to the successful completion of these assignments.

Most recently, my skills addressed the needs of the insurance industry and their counsel, where I evaluated technical and financial reports in the context of common insurance policy provisions. Specific to the needs of legal counsel, I provided litigation support, assistance in the development of expert opinions and critical review of the expert opinions prepared by others. Settlement negotiations were supported by my detailed evaluation of the reported costs incurred and preparation of realistic future environmental cost estimates. As a client service, I routinely lead training presentations on topics of environmental interest.

EDUCATION

University of California, Berkeley, M.S., Civil Engineering, 1989
University of Nevada, Reno, B.A., Geology, 1983

CERTIFICATIONS AND SAFETY TRAINING

- California Professional Geologist
- California Certified Hydrogeologist
- OSHA 40-hour Hazardous Waste Operations Training
- OSHA 8-hour Hazardous Waste Operations Annual Refresher Training
- OSHA 8-hour Hazardous Waste Supervisor Training

CAREER SUMMARY

WestEKO Environmental Risk Services, *Senior Project Manager*, 2005-Present
The Mullen+Watkins+Everett Group, *Senior Hydrogeologist*, 2000-2005
ENTRIX, Inc., *Supervising Hydrogeologist*, 1998-2000
ENVIRON International Corp., *Senior Project Hydrogeologist*, 1989-1998
Shell Geosciences, *Geophysical Technician*, 1984-1989

TECHNICAL PROJECT HIGHLIGHTS

PETROLEUM SITES

Catalina Refinery, Long Beach, California
Lead project manager for development of the hydrogeologic conceptual site model portion of the Corrective Measures Study for the 2,100-acre refinery. Project included re-evaluation of the hydrogeologic conceptual site model encompassing data collected from over 20 years of environmental investigations and geotechnical assessments, and data gathered as part of site Corrective Measures Study, in tandem with regional numerical and fate and transport modeling studies. Conceptual site model addressed 12 solid waste management units (SWMUs), four man-made process water canals, and five surface water impoundments and 30 other project areas. Study elements included aquifer testing, tidal studies, and groundwater/surface water levels transect studies. Results were integrated into main report and supporting appendices of the 12-volume Corrective Measures Study (CMS) Report. As part of the effort, managed the installation of numerous temporary water level piezometers and monitoring wells with zero reportable injuries. Supported and attended company led and client led project safety meetings.

Atwater Slag Site, Half Moon Bay, California.
As site project manager oversaw preparation of a human health and ecological risk assessment (HHERA) and site conceptual model, and coordinated work on a site feasibility study/remedial action plan (FS/RAP) on behalf of a multi-party client group for this California state superfund site. Responsible for implementing company and client safety policies and procedures for all aspects of site investigations. Site investigations and disposition of investigation-derived wastes were completed in compliance with all local, state and federal regulations.

UST Site and Bulk Fuel Storage Facility, Elko, Nevada
Provided technical oversight of a Risk Based Corrective Action (RBCA) field investigation and report for a former retail gasoline station impacted by petroleum hydrocarbons and located near a bulk fuel storage facility impacted by DNAPL across the same hydrogeologic interval. Project entailed extensive review of ten years of previous environmental reports, collection of dissolved phase and product phase samples for forensic analyses, evaluation of parameters to demonstrate natural attenuation, and preparation of the report.

School Bus Refueling Site, Chino, California
Managed a soil and groundwater investigation at a former elementary school in a rural area for which a water supply well installed into a bedrock aquifer system was impacted by methyltertbutyether (MTBE). Investigative techniques employed included soil borings, water well sampling, down hole video camera logging, vertical flow evaluation using a heat pulse flow meter, and depth discrete water sampling. Results of this investigation and subsequent quarterly monitoring were used to evaluate the physical and chemical characteristics of the subsurface as they related to the fate and transport of MTBE at the site. This evaluation and subsequent source removal work were used to support recommendations to remove the impacted well from the water supply network and permit site closure.

INSURANCE INDUSTRY

Petroleum Underground Storage Tank (UST) Site, Eureka, California
Provided litigation support to counsel for an insurance company regarding the probable sources of releases of petroleum hydrocarbons to soil and groundwater at a former construction company site. Evaluated soil and groundwater data at the site and surrounding properties to differentiate between several possible contaminant releases scenarios and developed a draft opinion.

Former Municipal Landfill, Eugene, Oregon
For an insurance company client, provided a hydrogeologic review and evaluation of the effectiveness of existing remedial systems at a former municipal landfill. Remedial design components included monitored natural attenuation, groundwater extraction and phytoremediation. In addition, evaluated the current state of implementation of the total maximum daily load (TMDL) program in Oregon and the potential implications of the program on the remedial systems. Prepared a probabilistic future environmental cost estimate to support future insurance claim settlement negotiations.

Dry Cleaner, Carson City, Nevada
Developed alternate conceptual scope of work to investigate and remediate dry cleaning site with solvent impacts to soil and groundwater for which a key issue was potential vapor intrusion to surrounding residences. Performed detailed review of existing soil and groundwater data, initial indoor air sampling results, and guidance documents to put together a more cost effective approach. Provided ongoing technical oversight of local environmental consultant.

Ship Building, Puget Sound, Washington
Assisted counsel to an insurance company in evaluation of a Natural Resources Damage (NRD) claim related to ship building activities in a waterway to Puget Sound. Evaluated cost assessment methodology and basis for assessed damages.

Small Arms Firing Range, San Martin, California
Reviewed site soil and groundwater data and information on regional geology and hydrogeology to evaluate the source of perchlorate in groundwater beneath a small arms firing range on behalf of an insurance company client. Results of evaluation were used by the insurance company to assess their coverage obligations.

SOLVENT SITES

Former Electronics Site, Mountain View, California
Remedial Investigation/Feasibility Study: Oversaw numerous soil and groundwater investigations involving well installations, soil borings, soil gas surveys, cone penetrometer testing for site redevelopment projects, property transfers, and underground storage tank investigations. Provided geologic review of soil samples collected for lithologic descriptions, and designed well construction based upon interpretation of geologic data.

Groundwater Monitoring/ Operations and Maintenance Programs: managed groundwater monitoring/operation and maintenance programs at a CERCLA site impacted by solvents including trichloroethene (TCE) and tetrachloroethene (PCE). The monitoring network consisted of over 200 groundwater monitoring wells, extraction wells and observation wells installed across a large urban area, which required extensive coordination with residents, businesses, city representatives and regulators. Program encompassed synthesizing chemical and water level data collected from groundwater monitoring wells and data obtained from operating soil and groundwater remedial technologies, including groundwater extraction, soil vapor extraction and dual phase extraction systems. Negotiated technically sound reductions in the groundwater monitoring programs through phased curtailment of the number of wells sampled, analyses required and monitoring frequency with the lead regulatory agency and involved community members. Activities included preparation and management of program budgets, oversight of field sampling personnel, quality control review of laboratory data, interpretation of groundwater flow and chemistry data, and preparation of technical reports.

Aquifer Testing: Performed hydraulic testing in three groundwater extraction wells installed as part of remedial measures for a CERCLA site to estimate optimum pumping rates for each extraction well. These data were used to evaluate the appropriate size of the extraction well conveyance lines.

Former Semiconductor Manufacturing Facility, San Jose, California
Implemented a soil and groundwater investigation for a former semiconductor manufacturing facility to address the extent of solvents in soil and groundwater and the relationship to impacted groundwater at neighboring facilities in response to pending litigation. Project entailed extensive review of state and local agency records, coordination and supervision of field personnel and operations. Provided testimony regarding the nature of the field investigations in the form of a deposition.

INDUSTRIAL SITES

Former Metals Fabrication Facility, Richmond, California
Managed the reporting effort and data analyses associated with a RCRA Facility Investigation (RFI) that encompassed numerous volumes of data generated by the analyses of several rounds of groundwater and surface water testing, sediment sampling, soil borings and soil gas testing, and fish tissue testing. Project site was impacted by solvents, primarily PCE, and cadmium. Data collected from these programs were validated in accordance with EPA Region I Level II data validation protocols, and managed using a combination of databases and graphical interfaces to produce a cost-effective, high quality report.

Commercial Water Supply Well Pump Manufacturer, more than 50 locations in California
Managed a domestic water system sampling program involving the collection of numerous water samples from over 100 private residential water systems in response to litigation brought under California's Proposition 65. Activities included contacting and responding to questions from residents, supervising field personnel, conducting statistical evaluations of the collected data, and preparing a report documenting project activities and findings.

Former Electronics Manufacturing Facility, Los Angeles, California
Conducted a Phase I/II site assessment of a former electronics manufacturing facility to evaluate environmental liabilities prior to a property transfer. Included coordination of subcontractors, supervision of field personnel, interpretation of chemical results of soil and groundwater samples obtained from soil borings, and preparation of a report on project findings.

PROFESSIONAL AFFILIATIONS

Member, Association of Environmental Professionals
Member, Association of Environmental & Engineering Geologist
Board Member, University of Nevada, Reno, Alumni Association

REFERENCES

References will be furnished upon request.