JENNIFER BAUER MORTON, PG


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Education

BS – Earth Sciences, University of California, San Diego

Professional Licenses

Professional Geologist – California (No. 8617)

Specialty Certifications

OSHA 40-Hour HAZWOPER Training

Professional Affiliations

San Diego Association of Geologists (Past President, 2015)
Commercial Real Estate Women (CREW)
San Diego Environmental Professionals

Professional Experience

Ms. Morton has worked as an environmental consultant since 2001. As a staff and project geologist, she conducted environmental site assessments (ESAs) for numerous leaking underground storage tank (LUST) projects, installing groundwater monitoring wells, collecting soil and groundwater samples, writing workplans and reports, assisting with remediation, and evaluating data. After several years of primarily conducting Phase II site assessments for open environmental cases, Ms. Morton shifted to due diligence environmental consulting, initially conducting Phase I/Phase II assessments for gas stations, and later providing these services for a wide variety of properties throughout California, as well as in Las Vegas, Nevada, and Tucson, Arizona. As a Project Manager, Ms. Morton has overseen numerous Phase I and Phase II site assessments and remediation projects, developing workplans, managing staff and field work, writing and reviewing Phase I and Phase II site assessment reports, developing remediation plans, and interfacing with clients, property owners, and regulatory agencies.

Her recent project experience is summarized below.

Phase I ESA, Cold Storage Facility, Downtown Los Angeles, CA. Ms. Morton conducted a Phase I ESA at a cold storage facility, constructed in the 1880s in downtown Los Angeles, that was slated for redevelopment. The facility was located adjacent to railroad tracks and in close proximity to a large remedial excavation for multiple LUSTs. The cold storage facility included heavy equipment and stored used oil. Historical fire insurance maps revealed that a large transformer had previously been located at the site during the time period when polychlorinated biphenyls (PCBs) were likely used. Ms. Morton also identified the former presence of machine shops and spray paint booths, and provided recommendations for soil and soil vapor sampling prior to redevelopment of the site.

Phase I, Phase II, and Remedial Excavation, Auto Salvage Yard, Chula Vista, CA. Ms. Morton conducted a Phase I ESA at an auto salvage yard slated for redevelopment as an office building complex. She identified historical use of the property as a dairy farm. Due to the potential presence of petroleum hydrocarbons associated with auto dismantling activities, she recommended and conducted soil sampling throughout the property. During grading activities, a large, 20-foot-deep illegal landfill was uncovered. Ms. Morton developed a plan for a remedial excavation and confirmation sampling in conjunction with the local oversight agency, leading to case closure and allowing for redevelopment of the property.

Phase I, Phase II, and Soil Vapor Extraction, Vacant Land/Former Commercial Property, Long Beach, CA. Ms. Morton oversaw Phase I, Phase II, health risk assessment, and remediation activities for a property in Long Beach that was slated for redevelopment as mixed-use commercial and low-income housing. A former dry cleaner and automotive repair facility were identified on site. Adjoining properties included automotive repair facilities and an upgradient LUST site. Petroleum hydrocarbons and tetrachloroethylene were identified in soil and groundwater at the site. Ms. Morton oversaw the installation of groundwater monitoring wells, permanent soil vapor probes, soil vapor extraction wells, and a soil vapor extraction system. She developed a Removal Action Workplan and worked with the Department of Toxic Substances Control (DTSC) to achieve approval in a short time period to accommodate construction schedules.

Phase I Site Reconnaissance at a Large Apartment Complex, Los Angeles, CA. Ms. Morton was part of a team conducting a site reconnaissance for a Phase I ESA at a large apartment complex in the La Brea neighborhood of Los Angeles. The complex included high-rise apartment towers and garden apartment homes constructed in the 1940s above a shallow oil field. Ms. Morton implemented a radon survey during the site reconnaissance. She identified locations of oil collection sumps and methane monitoring equipment, and discovered that underground storage tanks (USTs) used for fueling residents' vehicles were historically located on the subject property.

Phase I ESA, Historic Inn, Rancho Santa Fe, CA. Ms. Morton conducted a Phase I ESA at a hotel and associated residential properties. She identified former agricultural land using historical aerial photographs of residences located on the hotel property, and provided a recommendation for soil sampling prior to redevelopment of the properties.

Phase I and Phase II ESA, Palm Tree Farm, Carlsbad, CA. Ms. Morton conducted a Phase I ESA on a property that had been used as a palm tree farm and residence. She discovered regulatory records indicating that a UST had also been located at the property. Based on the historical site usage, she recommended soil sampling to determine if the site had been impacted by organochlorine pesticides, as well as by petroleum hydrocarbons from the UST. She collected shallow soil samples using a hand auger for pesticide analysis, and oversaw direct push drilling in the location of the former UST identified by the property owner to collect soil samples for petroleum hydrocarbon and VOC analysis.

LUST Investigations Throughout Southern California. Ms. Morton worked on a portfolio of LUST projects at gas stations for a major oil company. She conducted groundwater monitoring well installations, soil and groundwater sampling, workplan development, site assessment, and groundwater monitoring report preparation.

Apartment Complex, San Diego, CA. Ms. Morton conducted a Phase I ESA at a 448-unit apartment complex per Freddie Mac guidelines. Although the subject property did not appear on any regulatory databases, she determined that the complex was constructed within the footprint of a former missile manufacturing facility impacted by chlorinated solvents. She completed an extensive file review at the San Diego County Department of Environmental Health, as well as a limited health risk

assessment. She determined that the continued presence of volatile organic compounds (VOCs) in soil vapor beneath the subject property at concentrations representing a potential human health risk could not be ruled out, and were therefore considered a recognized environmental condition.

Los Angeles Unified School District (LAUSD), Los Angeles, CA. Ms. Morton conducted a Phase I ESA in conformance with California Department of Education requirements at an LAUSD elementary school. She prepared Phase II workplans in conformance with DTSC and LAUSD requirements for several school projects slated for redevelopment, and oversaw soil sampling at one LAUSD property.

Oxnard School District, Oxnard, CA. Ms. Morton oversaw Phase I and Phase II ESAs for a portfolio of projects in the Oxnard School District. Soil sampling was conducted in accordance with DTSC requirements. She further oversaw the disposal of contaminated soil encountered during the Phase II assessment at several schools where playgrounds were to be reconstructed.

Terramar Environmental Consulting, Encinitas, CA. As the Owner and Principle Geologist, Ms. Morton provided Phase I and Phase II environmental consulting services. Projects included industrial facilities, gas stations, dry cleaners, schools, agricultural land, multi-family residential properties, office buildings, medical facilities, and shopping centers. Services included Phase I ESA site reconnaissance and reporting; Phase II soil, groundwater, and soil vapor sampling; data analysis, reporting, and interfacing with regulatory agencies; and remedial excavation oversight, waste disposal coordination, confirmation sampling, data analysis, and reporting.

Rincon Consultants, Inc., Carlsbad, CA. Senior Project Manager responsible for managing Phase I, Phase II, and remediation projects throughout California. Duties included preparing proposals; managing budgets; invoicing; writing and reviewing workplans, Phase I and Phase II environmental site assessment reports, and remediation plans and reports; overseeing soil, soil vapor, and groundwater sampling; writing hazards and geology sections for California Environmental Quality Act (CEQA) documents; managing a soil vapor extraction remediation project; technical input and oversight; and interfacing with regulatory agencies, clients, landowners, city governments, and developers. Projects included drycleaners, former gas stations, agricultural land, auto repair facilities, former industrial facilities with multiple recognized environmental conditions; peer review of site assessment documents and remedial action plan for a State Response site; and a geohazards study on a 120-mile oil pipeline.

Palomar College, San Marcos, CA. Instructor of Oceanography and Geology responsible for teaching Oceanography and Geology courses to majors and non-majors for fulfillment of general physical science requirement. Served as Assistant Advisor to the Geosciences Connection, the campus geosciences club.

Conestoga-Rovers and Associates, Irvine, CA. Project Manager overseeing all aspects of ESA and remediation projects. Duties included budgeting; invoicing; interfacing with clients and regulatory agencies; writing and reviewing workplans, quarterly status reports, site assessment reports, remediation system optimization reviews, sensitive receptor surveys, and site conceptual models; managing field work, including groundwater monitoring and remediation well installations, groundwater sampling, remediation system installation and monitoring; evaluating laboratory analytical data; and reviewing historic and current geologic and environmental information.

GeoTek, Inc., Vista, CA. Environmental Geologist and Project Manager responsible for managing environmental Phase I and Phase II site assessment projects and remediation projects. Duties included writing proposals, property mitigation plans, and Phase I, Phase II, and remediation reports; managing and conducting field work, including drilling, soil vapor surveys, soil sampling, and a large remedial excavation; evaluating laboratory data; reviewing historic and current geologic and

environmental information; communicating with clients and regulatory agencies; and managing budgets.

SECOR International, Inc., San Diego, CA. Project Geologist responsible for conducting all aspects of environmental assessments for gasoline service stations. Duties included review of historic and current geologic and environmental data; preparing proposals, workplans, Phase I/Phase II site assessment reports, and groundwater monitoring reports; communicating with clients and government agencies; overseeing drilling and groundwater monitoring well installations; generating soil boring logs, geologic cross-sections, and groundwater gradient maps; and evaluating laboratory analytical data.

MACTEC, Inc., Irvine, CA. Staff Geologist who conducted environmental assessments for LUST sites. Duties included review of historic geologic and environmental information; writing interim remedial action plans, corrective action plans, and workplans for excavations, soil and groundwater sampling, and monitoring well installations; communicating with regulatory agencies; obtaining drilling and encroachment permits; coordinating field activities for soil and groundwater sampling and well installations; monitoring drilling projects, well installations, well development, and well abandonment; performing groundwater gauging and sampling; generating soil boring logs and geologic cross-sections; coordinating waste handling; assisting with preparation of site conceptual models; and preparing site assessment and groundwater monitoring reports, groundwater gradient maps, and hydrocarbon isoconcentration maps.

Publications and Presentations

Kuhn J, Legg M, Shleman R, Bauer J. “Neotectonics and Coastal Instability: Orange and Northern San Diego Counties, California.” Neotectonics in the North Coastal Area, San Diego County, California. Vol. 1.

Morton, Jennifer, Editor, “Coast to Cactus: Geology and Tectonics, San Diego to Salton Trough.” San Diego: Sunbelt Publications, 2014.