

Sonja Dorrance Jernstrom
Assistant Scientist
Waterstone Environmental, Inc.

Ms. Jernstrom's primary responsibility at Waterstone involves conducting Phase I Environmental Site Assessments. Ms. Jernstrom has managed and performed Phase II soil investigations, water sampling, and walk-through building inspections for properties throughout Southern California. Ms. Jernstrom began her career by participating in a number of internships in the environmental field, including assignments as a field scientist with the Bureau of Land Management and the Public Works Department of the City of Salem, Oregon. These experiences have provided her with experience in sampling and collection protocol, environmental land use acquisition and management, and governmental agency regulations and procedures. Ms. Jernstrom earned a Bachelor's Degree in Environmental Science with an emphasis in Microbiology from Willamette University in 2003 and is in the process of completing an environmental management course from the University of California-Irvine.

Education

- B.A. Environmental Science, Minor in Biology, Willamette University, Salem, OR, 2003
- Environmental Management Certificate, University of California-Irvine, Irvine, CA, 2006 (in progress)

Specialized Training and Certifications

- OSHA 40-HR HAZWOPER Supervisor Training, 2005
- OSHA 40-HR HAZWOPER Refresher Training, 2006
- CPR and First Aid Training, 2006
- 24-HR AHERA Building Inspector Training, 2005
- 40-HR AHERA Supervisor Training, 2005
- California Asbestos SST (in progress)
- California Lead Assessor (in progress)
- Parcel Platform Proficient

Capabilities

- Environmental Site Assessments
- Groundwater and Soil Sampling
- Fieldwork Activities
- Litigation Support
- Data Compilation and Processing

Key Projects and Experience

Environmental Site Assessments

- Ms. Jernstrom has completed numerous Phase I ESAs on industrial, commercial, residential, and undeveloped properties in Los Angeles, Orange, Riverside, San Diego, and San Bernardino Counties for major Southern California developers, large commercial banks, and wireless communications providers. Each of these projects required arranging site visits with representatives of the property, visual assessing the property with a site walk, researching the potential environmental concerns at the property and its neighbors at local agencies by requesting information and conducting file reviews, performing interviews with site contacts, and completing a report that summarized the potential for environmental impact to the property.
- Ms. Jernstrom is proficient in Parcel Platform, the online assessment service provider used by several national corporations for Phase I ESAs. This system is compliant with the updated AAI and ASTM standards.

Fieldwork Capabilities and Supervision

Ms. Jernstrom has supervised and participated in a variety of field work activities, including several Phase II Environmental Site Assessments on commercial and undeveloped parcels in throughout Southern California. Work has included the identification of abandoned oil wells, underground storage tanks (UST's), clarifiers, and historical agricultural uses. Subsequent Phase II work has included soil sampling for volatile organic compounds, metals, total petroleum hydrocarbons, and polychlorinated biphenyls. Phase II work has also included management of geophysical surveys to locate wells and UST's. During each soil sampling activity, she was responsible for monitoring health and safety for herself and subcontractors, classifying and logging soil samples, and making decisions with the assistance of the on-site field supervisor for additional sampling at each field location. Ms. Jernstrom marked boring, arranged for subsurface utility clearance, and coordinated with laboratories for pick-up and analysis of soil and/or groundwater samples.

Litigation Support

- Ms. Jernstrom has worked on expert witness testimony presentations for litigation cases in Southern California. She was responsible for researching past historical property functions, and hazardous chemical usage and consumption by property owners. She participated in field surveys, data collection, organization and compilation. She oversaw the production of multi-layer site schematics and worked to develop interactive presentations for expert witness testimony in California courts for properties including oil refineries and large parcels slated for development.

Health and Safety

- Ms. Jernstrom prepared several Health and Safety Plans for various Phase II soil and groundwater investigations.