

Andrea Moore | Senior Staff Professional

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Professional Summary:

Ms. Moore is an environmental consultant specializing in resolving complex environmental issues for property owners and managers. She is an active team member responsible for client reporting, operations management, cost control, and schedule analysis. She is also involved in proposal development and execution of contracts for environmental site assessments, hazardous material identification, remediation, and spill investigations.

- Phase I Environmental Site Assessments
- Phase II Environmental Site Assessments
- Remediation
- Asbestos

Licenses and Certifications:

Asbestos Building Inspector, TX, #601772
HAZWOPER, OSHA

Project Experience:

Regency Center, Voluntary Cleanup Program (VCP) The Woodlands, Texas

Ms. Moore has supervised the installation of soil borings and monitoring wells, as well as collected soil and groundwater samples to determine the vertical and horizontal extent of chlorinated solvent contamination from a dry cleaning facility on the Subject Property. Ms. Moore has assisted the client in enrolling the site in the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP). As part of the enrollment of the site into the VCP Program, Ms. Moore has prepared an Affected Property Assessment Report (APAR) with monitoring well construction logs and groundwater flow drawings, conducted quarterly groundwater monitoring sampling, completed Monthly Status Reports (MSRs), prepared a Remedial Action Plan (RAP), and application for the installation on injection wells with the TCEQ Underground Injection Control (UIC) division. Approval for the injection wells has been granted by the TCEQ and Ms. Moore installed 108 injection wells at the site and oversaw the in-situ-chemical oxidation activities using sodium persulfate. This site was granted a Certificate of Completion in June 29, 2012. Ms. Moore assisted in the plug and abandonment of the on-site monitoring wells.

University of Houston Downtown, VCP Houston, Texas

EFI conducted a Phase I Environmental Site Assessment, which identified historical business activities and operations that would potentially generate contamination at the site.

Ms. Moore developed a Phase II Environmental Site Assessment and Work Plan that involved installing soil borings, collecting surface and subsurface soil samples, and laboratory analysis throughout the site to determine if the soils have been impacted from the historical businesses. The analytical results identified heavy metal contaminated soil at the site. Based on the buildings design and analytical results, approximately 22,000 cubic yards of Class II non-hazardous soil and

125 cubic yards of Class I hazardous soil was excavated and disposed from the site. Ms. Moore has supervised the installation on monitoring wells at the sites, as well as conducted soil and groundwater sampling during the installation. Additionally, Ms Moore assisted the University of Houston in submitting their VCP Application to the TCEQ. Ms. Moore has completed and submitted an APAR, a Response Action Completion Report (RACR), and MSRs in association with this site. This site was granted a Certificate of Completion in May 4, 2009. Ms. Moore assisted in the plug and abandonment of the on-site monitoring wells.

University of Houston, Spill Prevention, Control, and Countermeasure (SPCC), Houston, Texas

Ms. Moore prepared a SPCC for the purpose of oil spill prevention, preparedness, and response to prevent oil discharges to navigable waters and adjoining shorelines.

**Cobalt, VCP
Carrollton, Texas**

Ms. Moore assisted Cobalt in the delineation of heavy metal contaminated soil at this light industrial warehouse facility. Ms. Moore installed soil borings and as a result of the analytical results, installed groundwater monitoring wells. On behalf of Cobalt, Ms. Moore prepared and submitted an APAR to the TCEQ. Based on the lithology of the site, it was determined that the soil contamination was not a threat to the groundwater and issued a Certification of Completion for this site. Ms. Moore assisted in the plug and abandonment of the on-site monitoring wells.

**University of Houston, Tank Closure
Houston, Texas**

Contaminated surface soil was discovered at the site. EFI conducted a Phase II investigation, which involved the advancement of soil borings in the area of the contaminated soil to collect soil and groundwater samples. The scope of work performed determined the vertical and horizontal extent of contaminated at the site. An approximate 700 square foot area was identified to have contaminated soil. During the remediation efforts, Ms. Moore supervised the removal and disposal of the contaminated soil, as well as documenting and reporting the identified contamination with the TCEQ. Due to EFI's efforts, the TCEQ concurred with the scope of work and issued a No Further Action (NFA) letter.

**4300 OST, Environmental Closure
Houston, Texas**

Ms. Moore assisted the client in the removal of twelve hydraulic lifts, a diesel Underground Storage Tank (UST), an oil/water separator, and a sump. Ms. Moore collected surface and subsurface soil samples from the areas surrounding these features. Ms. Moore completed and submitted a Closure Report to the TCEQ. Based on EFI's efforts, the TCEQ concurred with the scope of work and issued a NFA letter.

**Woods Partners, Oil/Gas Wells and Mud Pits
Houston, Texas**

Ms. Moore utilized geophysical technology on a vacant tract of land to determine the location of a historical oil well and associated mud pits. Ms. Moore installed three monitoring wells on the property to determine if the subsurface medias had been impacted by the former oil well production activities. Ms. Moore worked in coordination with the Texas Railroad Commission (RRC) VCP Program to determine the course of action for this site.

**Woods Partners, Tank Closure
Fort Worth, Texas**

Approximately 20' of a UST was exposed to soil with approximately 10' of the UST protruding through the building basement wall. EFI found no detectable concentrations of hydrocarbons in the soil samples collected from around the UST. The contents of the UST were removed and the tank was filled with concrete slurry. Ms. Moore completed and submitted a Closure Report to the TCEQ. Based on EFI's efforts, the TCEQ concurred with the scope of work and issued a NFA letter.

**Harris County Hospital District, Tank Closure
Houston, Texas**

Ms. Moore assisted in the monitoring of a release documented at the site. Ms. Moore completed and submitted a Closure Report to the TCEQ. Based on EFI's efforts, the TCEQ concurred with the scope of work and issued a NFA letter.

**Legacy Partners, Corrective Action
Austin, Texas**

Ms. Moore assisted the client in receiving closure for lead contaminated soil by conducting a voluntary Phase II Environmental Site Assessment, receptor evaluation, and Tier 1 Exclusion Criteria Check list. Based on EFI's efforts, the TCEQ concurred with the scope of work and issued a NFA letter.

**Triten, Prepare Notification of Registration (NOR)
Houston, Texas**

Ms. Moore classified and registered hazardous waste streams and storage practices to the TCEQ.

**Landry's Restaurants, Innocent Owner/Operator Program (IOP)
Galveston, Texas**

Ms. Moore prepared an IOP application for a property impacted from a release by an adjacent gas station. The TCEQ concurred with the application and issued a Certificate of Completion.

**Cobalt, Phase II, Houston
Texas and Atlanta, Georgia**

Ms. Moore Installed borings and collected soil and groundwater samples to determine the extent of petroleum and solvent contamination from an oil/gas well production area.

**Aegon, Phase II
Miami, Florida**

Ms. Moore installed borings and collected soil and groundwater samples to determine the extent of dry cleaning chlorinated solvent contamination on the Subject Property. Additionally, Ms. Moore collected soil and groundwater samples to determine if a former UST had impacted the Subject Property.

**Transwestern, Phase II
Houston, Texas**

EFI installed borings and collected soil samples to determine if a hydraulic elevator had impacted the Subject Property.

**Spring Branch Independent School District, Phase II and Remediation
Houston, Texas**

During the construction expansion of an elementary school, unstable soil and evidence of a burn pit was discovered. Ms. Moore collected soil samples from several test pits that identified silver contamination on the school property. Ms. Moore supervised the excavation and disposal of

approximately 1,404 cubic yards of silver contaminated soil from the property. Ms Moore collected confirmation soil samples until the soil sampled was below the regulatory standards.

**Hines, Phase II and Remediation
Houston, Texas**

Ms. Moore supervised the excavation, removal, characterization, and confirmation sampling of identified lead contaminated soil in a fifty-foot by fifty-foot grid from a downtown property. The property was formerly a parking garage, which was demolished for the redevelopment of a high-rise office building. Using a trackhoe, the soil was excavated to a depth of six feet. A total of ninety-eight truckloads, each truckload containing approximately eleven cubic yards, of soil was excavated and removed from the Subject Property. The lead contaminated soil was transported off-site for disposal. Confirmation soil samples were collected. Approximately 30,000 cubic yards of over-excavated soil was removed from the Subject Property to be disposed.

**Archon, Phase II
Quailtree**

Ms. Moore collected PCB wipe samples from the pad-mounted transformers and the use of ground penetrating radar to determine the location of a UST.

**Coca-Cola, Phase II
Houston, Texas**

Ms. Moore supervised the removal of a remediation system, plugging and abandonment of fourteen monitoring wells and vapor recovery wells, applying for closure with the TCEQ.

Triten Corporation, Phase II

Ms. Moore oversaw the removal of three underground oil-water separator tanks from the Subject Property. Additionally, collected soil samples of the tank pit to determine if the tanks had impacted the Subject Property. Ms. Moore filed for tank closure with the TCEQ.

Aegon, Phase II, Love Box

Ms. Moore supervised the installation and collection of soil and groundwater samples to determine if chlorinated solvent contamination has impacted the Subject Property due to the historical use of the Subject Property.

**USAA, Phase I
Rockville, Maryland**

Ms. Moore conducted a due diligence survey of a multi-parcel, VCP site, that was formerly used as the Kodak Processing facility.

Aegon, Phase I, Everett Tech Park II

Ms. Moore conducted a due diligence survey of airplane part manufacturing warehouse.

**Aegon, Phase I
Hellmann USA**

Ms. Moore conducted a due diligence survey of a two-story office building.

**Deep East Texas Council of Governments, Phase I
Nacagdoches, Texas**

Ms. Moore conducted a due diligence survey of 25 acres of undeveloped land.

**Archon, Phase I
Quailtree**

Ms. Moore conducted a due diligence survey of an apartment complex.

**The Rouse Company, Phase I
The Shops at Arizona Center**

Ms. Moore conducted a due diligence survey of a two story mall.

**Aegon, Phase I
Airport Way Business Center**

Ms. Moore conducted a due diligence survey of a light industrial warehouse park. The location of this facility was the former location of a pharmaceutical laboratory which was identified as a State Cleanup site. The due diligence included extensive file reviews at the state regulatory agency.

**Aegon, Phase I
Barrington Estate Apartments**

Ms. Moore conducted a due diligence survey of an apartment complex, the collection of lead-base paint, radon, and asbestos samples.

**Prescott Realty Group, Phase I
Chevron Office Building**

Ms. Moore conducted a due diligence survey of an office building, the collection of radon, lead-in-drinking water, and asbestos samples.

**Aegon, Phase I and Phase II
Wilson Farms-Elmira**

Ms. Moore conducted a due diligence survey of a free-standing convenience store. This facility was identified to be located south of a Superfund facility with extensive chlorinated solvent contamination. Ms. Moore conducted the installation of borings and collected soil and groundwater samples to determine the extent of chlorinated solvent contamination on the Subject Property. Additionally, Ms. Moore collected soil and groundwater samples to determine if a former UST had impacted the Subject Property.

**Aegon, Phase I and Phase II
Wilson Farms-Courtland**

Ms. Moore conducted a due diligence survey of a free-standing convenience store. this facility was identified to historically be a auto repair shop with hydraulic lifts and USTs. Ms. Moore installed borings to collect soil and groundwater samples to determine if the former hydraulic lifts and UST associated with the auto repair shop had impacted the Subject Property..

**Aegon, Phase I and Phase II
Trent-Argone Retail Center**

Ms. Moore conducted a due diligence survey of a retail strip center. This facility was formerly a gas station, an auto repair shop, a radiator shop, and a school. Ms. Moore oversaw the collection of soil and groundwater samples at this facility to determine if the historical gas station, radiator shop, and auto repair shop had impacted the Subject Property.

Professional Experience:

EFI Global, Inc., Houston, TX, Project Manager II, 2001 - Present
ENSR Corporation, Houston, TX, Environmental Consultant, 1997 - 2000
Fugro, Inc., Houston, TX, Environmental Consultant, 1996 - 1997
Unovate Environmental Services, Houston, TX, Environmental Consultant, 1995 – 1996
Turbofab, Houston, TX, Internship, 1994

Education:

Bachelor of Science, Southwest Texas State University, San Marcos, TX, 1994