



ENVIRONMENTAL WORKS
OUR EXPERTISE. YOUR SUCCESS.

Statement of Qualifications



ENVIRONMENTAL WORKS

Full Service Environmental Consulting & Contracting

Certified Woman-Owned Business Enterprise (WBE)

Environmental Works, Inc. (EWI) is a full-service, certified woman-owned environmental consulting and contracting firm that has built a strong reputation for providing expert, turnkey solutions and exceeding clients' expectations.

Headquartered in Springfield, Missouri, with offices in Kansas City and St. Louis, EWI has provided services to both public and private-sector clients for over 17 years.

EWI offers both consulting (geologists, engineers, chemists, biologists, regulatory experts) and contracting services (experienced heavy equipment operators, drillers, and spill response personnel and equipment). This unique combination allows us to be flexible and cost-effective when planning and implementing projects, and provides unsurpassed qualifications to undertake multi-faceted projects.

EWI clients include government organizations (state, federal, local), intermodal transportation companies, real estate developers, financial and educational institutions, petroleum companies, private industry and manufacturing companies.

- Remediation including Remedial System Design, Implementation, O&M
- Emergency Spill Response / Hazardous Materials Response
- Emergency Response Planning
- Site Restoration Services
- Demolition, Construction, & Engineering Services
- Industrial / Field Services
- Excavation / Hauling
- Asbestos & Lead-Based Paint Inspections
- Brownfields Redevelopment
- Environmental Site Assessments (Phase I, Phase II, ETS)
- Industrial Wastewater Treatment Plant Operation
- Petroleum Storage Tank Management, Compliance, Removal, & Remediation
- Risk Assessment / Investigation
- FRP & SPCC Plans
- Regulatory Compliance Consulting & Training (CWA, OPA, RCRA, OSHA, DOT)
- Storm Water & Wastewater Compliance, Permits, & Plans
- Solid & Hazardous Waste Management
- Specialized Railroad Industry Services
- Drilling & Well Installation



SPRINGFIELD - ST. LOUIS - KANSAS CITY

Phone: 417.890.9500 - 24 Hour ER: 877.827.9500 - www.environmentalworks.com



We are proud to have served many satisfied clients.

“During the past 8 years we have worked exclusively with EWI. They have always treated us as if we are their only customer. Their professionalism, quick response time, quality solutions and individual attention are the keys to our strong and continued business relationship.”

- Denise Ogan
Development Manager for Carlson Gardner
Developments
DKO Consulting, LLC

“For more than 10 years, the first-rate staff at Environmental Works has handled all my environmental needs. EWI is trusted by regulatory agencies to deliver high quality work that is done right. I have no reason to look anywhere else.”

- Steve Wood
President
Tri-Lakes Petroleum

“EWI’s willingness to go the extra mile on every project has really made them stand out. Though we’ve been approached, we’ve never considered changing companies because we know they’re the best.”

- Carol Carlson
President
Wood & Huston Bank

- 3M
- Alcatel-Lucent Technologies
- Bank of America
- Bass Pro Shops, Inc.
- BNSF Railway Company
- City of Springfield, Missouri
- Commerce Bank
- Davis Properties
- DKO Consulting, LLC
- Empire Bank
- Environmental Improvement and Energy Resources Authority (EIERA)
- EPA Region 7 Superfund Division
- Explorer Pipeline Company
- Federal Aviation Administration (FAA)
- Federal Bureau of Prisons
- Great Southern Bank
- Jump Oil Company
- Kansas City Southern Railway
- Kum & Go
- MFA Oil Company
- Missouri Department of Natural Resources
- Missouri Department of Transportation
- Missouri State University
- Northstar Battery Company
- O’Reilly Auto Parts
- Prime, Inc.
- Rapid Robert’s, Inc.
- Red-Wood Development, Inc.
- R.B. Murray Company
- Safety Kleen, Inc.
- Springfield Remanufacturing Corporation (SRC)
- St. John’s Hospital
- Tracker Marine
- U.S. Army Corps of Engineers
- Wal-Mart Stores, Inc.
- Washburn University



Industrial Services

Unlike most consulting firms, EWI offers both environmental consulting services *and* hands-on field service crews. Industrial services are provided as both stand-alone contractor services, such as oil-water separator cleaning, and as part of a larger environmental project, such as excavation and removal of underground storage tanks or installation of remediation equipment.

The type of industrial service project completed by EWI varies greatly, as shown in the list of example projects below:

- Wastewater treatment plant operation
- Installation and operation and maintenance of remediation equipment
- Aboveground storage tank installation and removal
- Oil / water separator cleaning
- Underground storage tank cleaning
- Underground storage tank removal
- Environmental drilling (soil boring installation and sampling, monitoring well installation)
- Spill response
- Excavation associated with spills and with construction projects

Our staff of trained, experienced field managers, equipment operators, drillers, and technicians all have extensive experience, which serves to provide an additional level of quality and safety to each project.

EWI also owns and operates various equipment including:

- Vacuum trucks (including a Guzzler)
- Heavy equipment (backhoes, excavators)
- Dump trucks
- Direct-push drilling rig (EWI performs drilling services in Missouri, Arkansas, Kansas, Illinois, Oklahoma, Alabama, and Mississippi).

A more detailed equipment list is available upon request. In addition, EWI also maintains a network of highly qualified vendors from whom any additional equipment can be quickly obtained.



Installation of soil borings and collection of soil samples from the banks of a lagoon.



EWI field technicians perform oil / water separator cleaning using the company-owned Guzzler.

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24-Hour Emergency Spill Response



Emergency Response and Site Restoration

EWI's Emergency Response and Site Restoration program has been providing exceptional service since 1992. EWI has responded to spills ranging from 10 gallons of diesel fuel from an aboveground storage tank to thousands of gallons of hazardous materials. We know that each incident is different and requires fast, effective and complete response in order to reduce the environmental effects of the release.

Actions taken in the initial emergency response can drastically affect how the project proceeds. That's where EWI's experience and training comes into play, as shown below. And we can provide these services 24 hours/day, 7 days a week:

- Highly trained and experienced Emergency Response Field Managers and Equipment Operators
- Experienced consulting staff capable of acting as the liaison for agency contact, handling waste management, and completing the required reporting associated with a release
- ER equipment available at a moment's notice, including vacuum trucks, dump trucks, and excavation equipment
- Remediation personnel with the expertise needed to plan and implement clean-up of a variety of materials

As the response proceeds, EWI can also move into long-term remediation that may be required by state or federal agencies.

Our **Site Restoration** services are the natural extension of the response. While onsite for the response, we start planning the restoration which saves time and materials. EWI has successfully restored simple sites, such as pastureland, to more complex sites requiring replacement of existing drainage structures.

EWI's complete ER and Site Restoration package provides fast, effective response and restoration that minimizes impact to the environment while allowing an expedited reinstatement of services.



Excavation of 25,000 tons of petroleum impacted soils from a former fueling area.



EWI responded to a 22 car train derailment for a Major Railway Carrier. EWI managed cleanup efforts and restored the site to its pre-existing condition.

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Engineering, Construction, and Demolition Services

Engineering Services

Typical services include:

- Engineering and design for fuel / oil storage and delivery systems, storm water and wastewater conveyance, and environmental control technology (oil / water separators, filtration units, etc.)
- Engineering support services / design for inflow and infiltration elimination within industrial / sanitary sewer systems

Construction Services

EWI has experienced, qualified equipment operators and construction supervisors on staff. Typical construction services include:

- Soil excavation / hauling
- Soil stabilization / erosion prevention
- Culvert installation / rehabilitation
- Lift station / force main installation
- Oil / fuel systems installation
- Oil / water separator installation
- AST installation
- Site grading / restoration

Demolition Services

EWI provides exceptional demolition services. EWI coordinates closely with our clients to achieve an efficient process for structure demolition. In 2009, EWI demolished approximately 30 structures for a Major Railway Carrier ranging from track scales to depots to former grain elevators all across the railway carrier's system.

EWI personnel combine extensive knowledge of demolition with environmental savvy and regulatory expertise to provide our clients with a cost-effective, liability-managed service second-to-none in the industry.



Lift station installation



EWI performed the demolition of a depot building for a Major Railway Carrier without any track downtime.

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Tank Closure Services

With more stringent regulations and increased liabilities associated with petroleum storage tanks, it is especially important to hire a qualified and experienced professional when pursuing closure of an underground or above ground storage tank system.

Environmental Works, Inc. (EWI) has the expertise and qualifications to manage your project from start to finish. We hold a successful track record of achieving “No Further Action” status for our clients.

EWI is well-versed in the federal and state regulations for petroleum storage tank systems. Our staff maintains close contact and good standing with both the Missouri Department of Natural Resources (MDNR) and the Petroleum Storage Tank Insurance Fund (PSTIF) personnel, so that our work is performed to the latest requirements.

EWI’s President serves on the PSTIF advisory board, which ensures that EWI is prepared for changes before they arrive. In addition, EWI currently holds the MDNR Underground Storage Tank Investigation / Remediation and Assessment Services Contract.

Closure services that EWI provides for owners / operators of petroleum storage tanks include:

- Excavation and removal of tank(s)
- Removal of all associated product lines / dispensers / piping
- Demolition of the product dispenser canopy / other structures
- Removal of debris generated during tank removal activities
- Tank decommissioning, cleaning, and proper disposal
- Waste characterization of tank contents and removal / proper disposal
- Excavation and proper disposal of contaminated soil and pit water
- Soil and groundwater sampling
- Backfill, grading, and site restoration
- Closure report preparation and submittal
- Claim recovery through PSTIF
- Regulatory negotiation
- Achievement of “No Further Action” status



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- Petroleum Marketer Client



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Environmental Site Assessments

EWI provides a wide range of services specifically related to property management, environmental due diligence, and site redevelopment. This service line includes more than 17 years of direct project experience in support of various client projects throughout the United States. From site assessment to land swap negotiations, EWI professionals offer superior qualifications beyond traditional contracting and consulting firms.

Phase I Environmental Site Assessment (ESA)

EWI resources include a group of environmental professionals dedicated exclusively to Phase I research and reporting. Phase I ESAs are performed in accordance with the EPA All Appropriate Inquiry (AAI) Rule and ASTM Standard E 1527-05. With an average Phase I volume between 100 to 150 ESAs annually, EWI offers regional Phase I experience beyond compare.

EWI Phase I Assessments typically include:

- Historical records reviews and other land use research
- Interviews with current and previous owner/occupants
- Environmental database reviews
- Identification of Recognized Environmental Conditions (RECs) or other conditions indicative of a potential contaminant release

Phase II Assessment and Investigation

Phase I findings may warrant further evaluations to better characterize environmental conditions and potential risk. Such conditions are typically explored through Phase II investigations and sampling. EWI capabilities extend through all aspects of the Phase II process from limited subsurface investigations to comprehensive groundwater studies.

The level of Phase II assessment may vary significantly based on Phase I findings and other project objectives. EWI therefore maintains a dynamic Phase II philosophy that often entails the application of innovative sample collection and analysis methods. Related technical services include:

- Direct-push (Geoprobe®) investigation
- Field screening and analysis
- Monitoring well installation and sampling
- Soil vapor and geophysical surveys

Our field operations capabilities and in-house equipment allow EWI to support Phase II and site investigation projects from initial planning through sample collection in the field. This approach produces a higher level of quality control with expedited and cost-effective results.



EWI has completed more than 30 Phase I ESAs within a city downtown square district.



EWI has completed numerous Phase I and Phase II ESAs for a Major Railway Carrier including a Phase I ESA covering approximately 37 miles of continuous railroad track across Tennessee and Mississippi.

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Environmental Remediation

EWI offers a wide range of remedial solutions based on direct experience under client and regulatory oversight programs. Available services range from simple excavations, to innovative treatment systems, to engineered controls designed to meet specific land use objectives.

Our philosophy is to combine industry-proven technology with innovative thinking intended to address cumulative risk. This approach allows EWI to implement highly targeted cleanup designs, which are further supported through risk-based corrective action (RBCA). We have accelerated hundreds of regulatory closures – e.g. state Voluntary Cleanup Programs, Underground Storage Tanks, Brownfields, etc. – through risk-based applications, which ultimately result in cost-effective and timely solutions for our clients.

System Design & Installation

EWI is able to coordinate and implement all phases of environmental remediation, from initial planning to system operation and maintenance. We routinely provide the following resources and services in support of an extensive portfolio of client, EPA and state oversight projects:

- Cleanup Alternative Studies
- System Design via Correction Action and Remedial Action Plans
- Product Recovery / Interim Removal Plans
- Professional staff for system design and field oversight
- Field crews, technicians, and equipment operators for field implementation

Cleanup Technologies

EWI applies a systematic process to evaluate the appropriate cleanup technology and remedial design. This process weighs several critical factors including extent of impact, geological conditions, proven effectiveness, regulatory acceptance, and overall cost. EWI offers direct experience with various remedial technologies based on these selection criteria:

- Product Recovery & Source Removal
- Pump and Treat
- Soil Vapor Extraction / Air Sparging
- Chemical Soil Stabilization
- In-situ Injections / Bioremediation
- Soil Encapsulation

System Operations & Maintenance

EWI maintains personnel and equipment specifically dedicated to remediation system operations and maintenance. Related services include routine groundwater monitoring, maintenance of dedicated field equipment, and oversight of specific technical indicators such as recovery and treatment volumes.



EWI is contracted to perform remediation activities for a multi-million dollar CERCLA/Superfund/NPL project site in Republic, Missouri.

This includes directing operation & maintenance (O&M) of an 80,000 gallon ground water pump & treatment system.



EWI installed a solar-powered free product recovery system at a former BNSF Rail Yard in Mobile, Alabama.

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Regulatory Compliance

EWI's long history and expertise with regulatory compliance coupled with our well-established working relationship with local, state and federal regulatory agencies, is the combination needed to help our clients achieve and maintain compliance. Whether it's a routine matter or a serious negotiation, EWI has a proven history of success working under the following programs:

- RCRA
- Clean Water Act
- Clean Air Act
- DOT
- EPCRA
- Oil Pollution Act

Under these acts, we've helped our clients maneuver through the complete compliance process, from permitting to implementation to expert testimony, including the tasks shown below:

- Acted as non-retained Expert Witness in a civil litigation suit being pursued against a client. Provided factual testimony on the broader implications of the environmental issues associated with the case. As the primary consultant on the project, were able to provide key information that negated the plaintiff's case.
- Prepared and conducted environmental training for our clients' personnel for over 17 years.
- Acted as the liaison for agency negotiations regarding storm water permit revisions for various clients
- Prepared Storm Water Pollution Prevention Plans, Spill Prevention Control and Countermeasure Plans, Facility Response Plans, Waste Minimization Plans, and Hazardous Waste Contingency Plans for numerous clients.
- Performed compliance inspections and reporting required under NPDES Permits, SPCC regulations, EPCRA, and RCRA.
- Prepared permit applications under the Clean Water Act and Clean Air Act.
- Managed hazardous, universal and special wastes, including waste characterization, packaging and labeling, and disposal.

These are just a few examples which illustrate EWI's understanding of the compliance issues that our clients face, and the key part we play in the process.



EWI provides permitting, plan generation and implementation, and inspection services per the SPCC and FRP requirements.



Hazardous waste compliance services provided by EWI help our clients achieve and maintain compliance.

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Brownfields and Site Redevelopment Services

Brownfields Redevelopment

EWI has completed numerous brownfield revitalization projects under a variety of working relationships. Our experience includes hundreds of site restoration initiatives, in addition to government contract work under the EPA, State of Missouri, and City of Springfield, Missouri Brownfields Programs. Specific contract experience and related EWI service lines include:

- Project portfolio of more than 50 Brownfields Assessment and Cleanup projects for the City of Springfield, Missouri in 2008 and 2009 alone
- Missouri Brownfields Revolving Loan Fund Contract – administered by the Environmental Improvement and Energy Resources Authority (EIERA)
- Brownfields inventories, corridor studies, and Phase I / Phase II Environmental Site Assessment
- Quality Assurance Project Plans (QAPPs)
- Analysis of Brownfields Cleanup Alternatives (ABCA)
- Brownfields Grant management and community outreach

Lead Paint & Asbestos Services

EWI professionals include licensed and accredited lead-based paint (LBP) and asbestos-containing material (ACM) inspectors qualified to perform building surveys and associated building material sampling. These services are offered in support of various client projects that require building renovations, demolitions, and other similar site restoration activities.

Asbestos Surveys

- Follow guidelines established by the EPA Asbestos Hazard Emergency Response Act (AHERA) Program or NESHAPs, where applicable; field inspections by licensed professionals
- Review of construction documents to identify suspect ACM, followed by visual surveys and material sampling
- Quantify area/volume and condition of ACM for abatement considerations

Lead-Based Paint (LBP) Surveys

- Follow guidelines established by EPA, Department of Housing and Urban Development (HUD), and applicable state and local requirements; field inspections by licensed professionals
- Field analysis using x-ray fluorescence (XRF) technology; paint chip analysis by certified laboratories
- Quantify area/volume and condition of LBP for abatement considerations



EWI performed a pre-demolition asbestos inspection in support of planned facility renovations and expansion at St. John's Hospital in Springfield, Missouri.

This project had to be conducted during normal business hours and thus involved ongoing communication and coordination with hospital staff.



XRF analysis of interior paint; XRF provides real time results without the added cost of laboratory testing

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Petroleum Services

For over 17 years, Environmental Works, Inc. (EWI) has specialized in a variety of services for the petroleum marketer and convenience store industry. From the initial release notification to “No Further Action” (NFA) status, EWI professionals help responsible parties comply with MDNR requirements and gain reimbursement through Missouri’s Petroleum Storage Tank Insurance Fund (PSTIF) – whenever eligible.

Since the inception (2004) of the MRBCA process in Missouri, EWI has obtained approximately 60 NFA letters from MDNR at tank sites throughout Missouri. In addition, EWI holds the MDNR Underground Storage Tank Investigation / Remediation and Assessment Services Contract.

Throughout the Midwest, EWI has worked at hundreds of convenience store and truck stop locations, as well as petroleum spill / release sites. Typical services include:

- Emergency spill response
- Release delineation (site characterization)
- Risk assessment preparation
- Remediation including remedial system design, installation, and operation
- Aboveground storage tank installation and removal
- Underground storage tank cleaning
- Underground storage tank removal / closure report preparation
- Environmental drilling (soil boring installation and sampling, monitoring well installation)
- Soil excavation
- Hydrogeologic testing
- Compliance consulting / regulatory negotiation and reporting
- Claim recovery through PSTIF
- SPCC plans
- Due diligence assessments (Phase I / II)
- Demolition, construction, and engineering services



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