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# STATEMENT OF QUALIFICATIONS

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*Innovative  
Professional Engineering  
and Environmental Consulting Services*

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*3203 Audley  
Houston, Texas 77098  
[www.mecx.net](http://www.mecx.net)*

*Service-Disabled Veteran-Owned*

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**CORPORATE:**

3203 Audley  
Houston, TX 77098  
Phone (713) 585-7000  
Fax (713) 585-7049

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please visit [www.mecx.net](http://www.mecx.net)



**A Service-  
Disabled  
Veteran-Owned  
Small Business**

## *Vision and Mission Statement*

### **MEC<sup>X</sup> VISION**

To enhance or restore built and natural environments, creating exceptional value for our clients, employees, and families within communities in which we work and live.

### **MISSION STATEMENT**

MEC<sup>X</sup> is a team of technology-driven, service-oriented professionals with client success central to our total business approach, from project concept to completion. We continually invest in, develop and empower our results-oriented employees to maximize value while creating innovative solutions that assure project success.



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(Revised: 5/13/2009)

## Company Overview



MEC<sup>X</sup>, LP, (MEC<sup>X</sup>) is a technology-based team of environmental solution providers. MEC<sup>X</sup> welcomes the opportunity to listen to your most difficult environmental problems. Press releases providing updated information on our corporate capabilities and hyperlinks to the most current list of our strategic alliance partners can be found on our web site at [www.mecx.net](http://www.mecx.net).

### COMPANY HISTORY

Our company roots go back to 1996, when we operated as ManTech Environmental Corporation (MEC), a subsidiary of ManTech International. MEC was created primarily to serve as a vehicle to implement practical innovative technology solutions being developed by the USEPA Kerr Research Lab in Ada, Oklahoma. In February of 2002, when ManTech International went public, our solution-driven team of dedicated staff members was spun-off to form a new independent entrepreneurial small business (MEC to the "Power of X"). Today, MEC<sup>X</sup> is now certified as a disabled veteran-owned small business. This means that our company is lead by a veteran "hands on" management team that designs and executes projects on time, on budget, and most important of all, exceeding client expectations every time. We are unique in our history, our path towards corporate formation, and most of all our approach to client service.

### MEC<sup>X</sup> SERVICES

- Remedial Investigations / Feasibility Studies (RI/FS)
- RCRA/CERCLA Investigations
- Leaking UST Investigation and Remediation
- Treatability Studies and Pilot Tests
- Remedial Action Plans
- Remedial Design, Engineering Plans, and Specifications
- In-Situ Chemical Oxidation
- In-Situ Bioremediation
- Optimization of Remedial Systems
- Soil Vapor Extraction Systems
- Innovative Excavations
- Pollution Prevention and Waste Minimization
- Environmental Compliance Audits
- Regulatory Permitting Services
- Due Diligence – Phase I Environmental Site Assessments
- Phase II Site Contamination Assessments
- Industrial Hygiene Services
- Indoor Air Quality Monitoring Services
- Asbestos, Mold, Lead Paint, and Radon Gas Monitoring
- Disaster Preparedness and Emergency Planning
- Storm Water Pollution Prevention (SWPP) Plans
- Spill Prevention, Control, and Countermeasures (SPCC) Plans
- Site Characterization, Sampling, and Monitoring
- Geologic and Seismic Hazard Assessment
- Hazardous Waste and Hazardous Materials Management
- Expert Witness and Litigation Support Services



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# MEC<sup>X</sup>, LP

## A Service-Disabled Veteran Owned Small Business



It is the policy of the United States, as stated in the Small Business Act, to afford all small businesses the opportunity to participate in providing goods and services to the government. In accordance with this policy, the Veterans Benefits Act of 2003 (Public Law 108-183) was enacted on December 16, 2003, thereby amending the Small Business Act (15 U.S.C. 631

et seq.) to establish a procurement program for *Service-Disabled Veteran Owned Small Businesses*.

To ensure that *Service-Disabled Veteran Owned Small Businesses* are given the chance to provide goods and services to the government, the Small Business Administration is responsible for ensuring that the statutory government-wide goal of 3% of prime and subcontracts for *Service-Disabled Veteran Owned Small Businesses* is met.

On May 5, 2004, 13 CFR Parts 121, 125 and 134 were implemented thereby creating a set aside program for *Service-Disabled Veteran Owned Small Businesses*. Therefore, contracting officers may award sole source or set aside contracts to *Service-Disabled Veteran Owned Small Businesses* for contracts of up to \$5.0M for manufacturing or \$3.0M for other contracting opportunities.

MEC<sup>X</sup>, LP (MEC<sup>X</sup>) is a Service-Disabled Veteran Owned Small Business registered on the following contracting databases: Central Contractor Registration, PRO-Net, Air Force Small Business Environmental Database, United States Environmental Protection Agency and various government contractors' databases.

MEC<sup>X</sup> is a technology-based team of solution providers that welcomes opportunities to help solve your most difficult problems. MEC<sup>X</sup> offers services to governmental, industrial and commercial organizations. MEC<sup>X</sup> has successfully and consistently shown its commitment to excellence, responsiveness, safety and delivery of technically sound environmental solutions driven by client needs. MEC<sup>X</sup> provides services and/or products in the following areas:

- ★ Consulting Engineering
- ★ Environmental Remediation
- ★ Indoor Air Quality
- ★ Asbestos Consulting
- ★ Data Validation
- ★ Data Management
- ★ Environmental Due Diligence
- ★ Homeland Security



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# CHEMISTRY CONSULTING AND DATA MANAGEMENT



MEC<sup>X</sup>, LP's (MEC<sup>X</sup>) environmental chemistry consulting and data management staff has supported environmental site investigations, remedial programs, risk assessments and environmental litigation cases since the late-1980s. We have direct experience with sample collection, sample management, environmental laboratory analyses, data validation, and data management. We provide project management, quality assurance, and data interpretation for small

and large chemistry programs in the federal, local, and commercial arenas. MEC<sup>X</sup>'s environmental chemists and database professionals support a wide range of clients in the following areas:

- **Planning and Development:** site history review, review of Applicable or Relevant and Appropriate Requirements (ARARs), development of data quality objectives (DQOs) to fulfill site exit strategies, field and laboratory method selection, preparation of project plans (FSPs, QAPP's, SAP's, SOP's), and laboratory contracts and SOWs.
- **Project Execution:** laboratory and field measurement program coordination, sample management, audits, database development and support, data validation/usability, site and program specific database queries, data quality assessment, contaminant-of-concern assessment, and interpretation of results.
- **Additional Chemistry and Data Quality Related Services:** activities following collection and analysis of the results, such as risk assessment, report writing, litigation support, third party review of data quality reports, development of supplemental field and chemical analysis programs, and related activities.
- **Laboratory Program Management:** develop customized laboratory program for clients with single or multiple contract laboratories to standardize procedures, provide oversight of laboratory implementation of method modifications to meet the long-term monitoring goals specific to a given site, perform laboratory audits, act as the primary laboratory point-of-contact, and facilitate laboratory project management to ensure consistent quality and competitive pricing.



MEC<sup>X</sup> provides clients with a full range of chemistry support and data management services designed to increase the success of their environmental programs.



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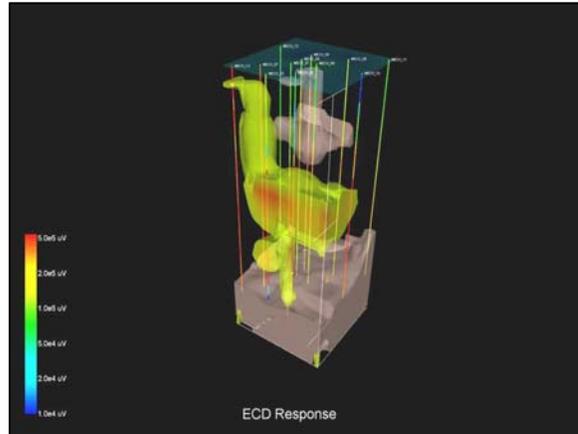
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## DUE DILIGENCE



MEC<sup>X</sup>, LP (MEC<sup>X</sup>) provides site investigation and closure services to corporations, law firms, lending institutions, industrial facilities and governmental entities.

MEC<sup>X</sup>'s scientists and engineers have conducted Phase II environmental due diligence assessments at a variety of sites, ranging from undeveloped properties to complex industrial facilities. We are sensitive to the varying dynamics of corporate

transactions and understand the need for rapid selection and assignment of appropriate teams of technical experts to address client's specific environmental requirements.

MEC<sup>X</sup> personnel have expertise in regulatory driven site cleanups/closures for hazardous waste sites, industrial waste sites, and petroleum storage tank sites. MEC<sup>X</sup> has experience in application of Resource Conservation and Recovery Act (RCRA) regulations, in negotiations with Local Oversight programs (LOPs), and the California Regional Water Quality Control Board.

### DUE DILIGENCE SERVICES

MEC<sup>X</sup> provides a full range of environmental due diligence services for our clients, which include corporations, law firms, lending institutions, insurance companies, industrial facilities and governmental entities. Our services range from conducting due diligence assessments in conjunction with mergers, acquisitions, divestitures and other business transactions to acting as an overall program manager for comprehensive compliance audits of multiple commercial or industrial facilities.

Our technical depth enables us to optimize site investigation services to meet client financial, transactional needs and regulatory-driven requirements. Many of these projects have focused on obtaining data for evaluating property transfers, identifying contaminant source areas, developing remedial action plans, and obtaining site closure. MEC<sup>X</sup> provides and combines the following site characterization services to ensure the project-specific goals are achieved:

- Developing and execute work plans to obtain site closures
- Utilizing intrusive (i.e., conventional rotary drilling, direct-push technology) assessment techniques
- Employing non-intrusive Membrane Interface Probe System<sup>®</sup> and geophysical assessment techniques
- Modeling contaminant source, fate, and transport
- Reviewing, validating and managing data
- Identifying and evaluating site remediation alternatives
- Negotiating with environmental regulatory agencies





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## ***ENVIRONMENTAL HEALTH & SAFETY (EHS)***



MEC<sup>X</sup>, LP (MEC<sup>X</sup>) provides a broad range of environmental, occupational safety, industrial hygiene and health services to the federal facilities, the most notable of which is the NASA Dryden Flight Research Center at Edwards Air Force Base in Edwards, California. The Safety, Health, and Environmental Office of NASA Dryden is responsible for the SH&E institutional and workplace risk assurance program at Dryden. The Office provides risk information and consultation to responsible Dryden managers, allowing informed decisions to maximize the protection of Dryden personnel, property, and environment. The Office coordinates the management of hazardous materials/waste and regulatory permitting at Dryden.

MEC<sup>X</sup> provides SH&E technical and administrative support to ongoing programs and for special projects. Support includes both routine and recurring services and non-routine special studies and services. MEC<sup>X</sup> focuses on ensuring the protection of personnel, resources, and the environment, while maintaining the facility's compliance with applicable Federal, State and local law, rules, and regulations, permits and permit conditions, facility regulations and policies.



MEC<sup>X</sup> performs oversight of all environmental programs including Superfund site restoration, cultural resources, natural resources, environmental impact analysis, air emissions, water supply, wastewater, pesticide usage, waste minimization, storage tanks, hazardous materials/hazardous waste (HM/HW) management, pollution prevention, environmental compliance, and environmental information systems. MEC<sup>X</sup> staff serves as technical information source on environmental issues and compiles information for regulatory agencies. MEC<sup>X</sup>'s staff develops and implements environmental plans and standard operating procedures. In the role of EHS program providers, MEC<sup>X</sup> oversees or performs air, water, soil, material sampling and analysis to assess compliance with environmental regulations. The MEC<sup>X</sup> EHS team must develop sampling plans, coordinate laboratory analyses update and document all records and prepare any written reports.

Additional functions performed include:

- Management of Chemical/Tool Cribs
- Arranging for clean out of oil/water separators
- Providing facility staff with current hazardous waste operator emergency response training to be prepared to cleanup HW/HM spills and releases
- Respond to emergencies and support on-scene management
- Perform data QA/QC evaluations for Chemical Management system
- Implement Environmental Management System and support audits

The MEC<sup>X</sup> Team received Excellent in all categories on the NASA Evaluation for Performance at the Dryden Facility.



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# ENVIRONMENTAL REMEDIATION



MEC<sup>X</sup>, LP (MEC<sup>X</sup>) understands that thorough and careful planning and execution is critical to obtaining regulatory closure of contaminated sites. MEC<sup>X</sup> personnel have extensive experience conducting remedial investigations, performing feasibility studies, performing treatability studies/pilot tests, managing remedial design and construction projects, operating and monitoring the progress of remedial systems, negotiating site cleanup objectives and obtaining closure from regulatory agencies. MEC<sup>X</sup> has unique and proven expertise in designing, installing and

maintaining remedial systems to treat soil, sludge, groundwater and wastewater.

## CHEMICAL OXIDATION

MEC<sup>X</sup>'s In-Situ Chemical Oxidation (ISCO) and Ex-Situ Chemical Oxidation (ESCO) processes are recognized as some of the most cost-effective and innovative chemical oxidation technologies to remediate organic contaminants in groundwater and saturated soils. MEC<sup>X</sup>'s ISCO processes use innovative procedures and proprietary formulation of reagents, which are applied directly into the area of concern through installed wells using a carefully controlled low-temperature and low-pressure approach.

MEC<sup>X</sup>'s ESCO process uses a patent-pending chemical process for on-site treatment of sludge or saturated and un-saturated soils aboveground. Both ISCO and ESCO eliminate the need for off-site disposal, which is typically the largest remedial cost.



## ENHANCED SOIL VAPOR EXTRACTION

MEC<sup>X</sup> has developed a vadose zone treatment process, which is extremely effective on removing volatile organic compounds from tight impermeable soils. Soil vapor extraction is a well known and effective technology when applied in permeable soils but has not been effective in tight impermeable soils. Our proprietary technology operates as a closed loop recirculation process, using heated air to desiccate the soils and increase the overall permeability. Since there is no external emission, no air permit is required.

## ENGINEERED EXCAVATIONS

Clients from the real estate industry are very concerned with losing revenue from closure of facilities during remediation activities. MEC<sup>X</sup> has designed and developed techniques for excavating contaminated soils from beneath occupied buildings and active facilities. The largest benefits of this approach are the rapid regulatory closure and elimination of long-term liabilities on-site.



## STRATEGIC ALLIANCE PARTNERS:

MEC<sup>X</sup> understands that there is no "silver bullet" when it comes to remediation strategies. Therefore, MEC<sup>X</sup> has teamed with other companies specializing in innovative bio-enhancements (i.e. persulfate, Iso-Gen<sup>®</sup>, calcium peroxide, emulsified vegetable oil) and innovative technologies (i.e. heavy metal fixation, ultrafiltration, Waterloo Barrier<sup>®</sup> and funnel & gate) to provide the best remediation strategy possible. Our partners include those listed to the left.



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# INDOOR AIR QUALITY



managers and process engineers.

## INDOOR AIR QUALITY

MEC<sup>X</sup> is an industry leader in monitoring and assessing indoor air quality. Our experienced industrial hygienists, engineers, and technicians identify and define problems, using the latest air sampling equipment, that affect air quality and develop recommendations to correct them. MEC<sup>X</sup> approaches every indoor air quality project by reviewing relevant factors: occupant complaints, ventilation system performance, potential sources of indoor and outdoor contaminants and observations of air flow and circulation. Based on our observations, an air sampling strategy is designed to collect data that determines the source of the concern which enables us to offer solutions to ensure air quality control.



## ASBESTOS AND LEAD SERVICES

MEC<sup>X</sup> provides comprehensive consulting services relating to asbestos-containing materials (ACM) and lead-based paint. MEC<sup>X</sup>'s EPA - accredited inspectors, management planners and project designers have experience nationwide performing facility inspections for ACM and lead-based paint. In addition to performing comprehensive site investigations, our engineers and industrial hygienists develop specifications for asbestos and lead abatement, develop and implement asbestos and lead operations and maintenance (O&M) programs, estimate costs of abatement options, conduct competitive bidding of abatement projects using qualified contractors, perform construction management with contractor oversight, and provide air monitoring during abatement.



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# INNOVATIVE EXCAVATIONS



MEC<sup>X</sup>, LP (MEC<sup>X</sup>) understands that rapid source area remediation can be the key to the long term effectiveness of many remediation programs. In addition, we understand that thoroughness and carefulness in planning, selecting and implementing the appropriate remedial strategies is critical to obtaining regulatory closure of contaminated sites. MEC<sup>X</sup> has extensive experience in the rapid remediation of both unsaturated and saturated zone

source areas. The use of oxidation technologies have been used effectively to rapidly treat saturated zone source areas while a combination of excavation and Enhance Soil Vapor Extraction have been successful in addressing unsaturated zone source areas. The use off innovative source area excavations have gained popularity do to the minimal impact on the facilities and the assurance that all environmental impacts have been addressed, permanently.

## ENGINEERED EXCAVATIONS

Clients from the real estate industry are very concerned with losing revenue from closure of facilities during remediation activities. MEC<sup>X</sup> has designed and developed techniques for excavating contaminated soils from beneath occupied buildings and active facilities. The largest benefits of this approach are the rapid regulatory closure and elimination of long-term liabilities on-site. The engineered approach requires three critical elements to ensure that the excavation is safe and effective with minimal delays. These elements include: 1) a complete delineation of contaminants and identification of fractures and utility corridors that must be removed or supported prior to commencement of excavation activities; 2) an accurate set of building and foundation design documents to ensure that the structural integrity of the systems can be maintained; 3) the design of an effective shoring plan that minimizes interference with excavation activities while ensuring the integrity of the building systems and worker safety.



Delineation activities must provide a level of acceptable confidence that all required contamination will be removed during excavation activities. Iterative excavation activities can be performed; however, the expense of shoring and bracing will increase if the innovative systems need to be moved. Accurate "as-built drawings" of the utilities and foundation are desired but in there absence design drawings are critical to the safety and success of any excavation program. The final element, the shoring and bracing plan is the key element to the successful implementation of the innovative engineered excavation. MEC<sup>X</sup> has developed several proprietary insitu bracing and shoring systems that are installed through borings prior to commencing excavation activities. This has enabled MEC<sup>X</sup> to perform over 30 excavations under active buildings with minimal impacts to current operations.

MEC<sup>X</sup> LP has completed engineered environmental excavations for a wide range of chlorinated solvents, petroleum hydrocarbons, and metals. In addition, excavations have been conducted to a depth of 35 feet below grade within buildings and in areas requiring well points due to shallow water tables.

If excavation is a consideration, call the excavation design experts for an evaluation and estimate.



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## PROCESS SEWER INTEGRITY EVALUATIONS



MEC<sup>X</sup>, LP (MEC<sup>X</sup>) understands that safety and minimal interference with plant operations are the key issues that confront chemical plants industries when trying to approach the RCRA requirement for process sewer integrity evaluations. MEC<sup>X</sup> has developed a non-intrusive sewer system evaluation protocol that has been accepted by most regulatory agencies as the standard for a successful assessment and optimum safety while minimizing impacts on

plant operations. In addition to performing the assessment, MEC<sup>X</sup> has developed a priority evaluation tool that enables the plant to program repairs systematically by addressing the greatest risk issues in sequence. And when contamination is suggested, MEC<sup>X</sup> focus; on meeting client objectives by providing creative solutions using new, innovative and cost-effective remedial technologies through our Technology Partnership with international remedial solution providers.

### **INNOVATIVE NON-INTRUSIVE PROCESS SEWER SYSTEM EVALUATIONS**

MEC<sup>X</sup>'s approach to integrity evaluation of process sewers has been developed over a 25 year period and is recognized as one of the most safe, cost-effective and innovative approaches to sewer system evaluation. This approach uses low head hydrostatic test protocol's that were developed from the USEPA Inspection and Infiltration program used in the 1980's for the evaluation of Sanitary Sewers throughout the United States. The approach uses proprietary equipment to eliminate explosive vapors from junction boxes and manholes while systematically test consecutive pipe segments thus minimizing interference with operations, minimizing water use and generating no waste. Planning and data evaluation ensure the success of the program. MEC<sup>X</sup> has developed systematic identification program for the process sewer system that enables detailed evaluation and recovery of data. After the data is collected, a Prado evaluation is performed to prioritize subsequent intrusive assessment and response as necessary.

### **EXAMPLE PROJECTS**

MEC<sup>X</sup> staff is currently performing RCRA renewal evaluations at Chemical plants in the USA. Former assessments have been performed for Chemical Plants, Refineries and Industrial facilities in Gulf Coast as well as Commercial facilities and Laboratories that handle chemical wastes. Please contact us to request specific project descriptions and contact information regarding a type of facility that you want to address.

### **STRATEGIC ALLIANCE PARTNERS:**

MEC<sup>X</sup> understands that there is no "silver bullet" when it comes to remediation strategies. Therefore, MEC<sup>X</sup> has teamed with other companies specializing in innovative bio-enhancements (i.e. persulfate, Iso-Gen<sup>®</sup>, calcium peroxide, emulsified vegetable oil) and innovative technologies (i.e. heavy metal fixation, ultrafiltration, Waterloo Barrier<sup>®</sup> and funnel & gate) to provide the best remediation strategy possible. Our partners include:



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# SOIL VAPOR INTRUSION ASSESSMENT, MONITORING AND MITIGATION



The U.S. Environmental Protection Agency (EPA) and several state regulatory agencies have recently issued guidance documents expressing concern about the potential migration of harmful soil gas vapors (vapor intrusion) from shallow unsaturated soils in the vadose zone into overlying or adjacent structures. The vapor intrusion exposure pathway is emerging as a critical health-based environmental concern, especially in the redevelopment of “brownfields” or properties

with past environmental issues. In New York State, the current Draft Vapor Intrusion Policy (issued in November 2004) leaves open the possibility of re-opening sites that were issued “no further action” letters under the soil and groundwater cleanup standards, if the original remediation is deemed “no longer protective of public health or the environment”. In Texas, the vapor intrusion pathway typically drives remediation and closure activities at hazardous waste sites with shallow soil contamination. In light of these existing and pending vapor intrusion regulations, many proactive commercial developers and owners of redeveloped properties are beginning to address this potential liability at their existing properties and assessing soil vapor intrusion risks during the design phase of new redevelopment projects.

MEC<sup>X</sup> is an industry leader in monitoring, assessing and preventing indoor air quality related to soil vapor intrusion risks. Our experienced scientists, engineers, and technicians use the latest air sampling equipment to identify and define problems that affect air quality and develop innovative solutions to correct them. MEC<sup>X</sup> approaches every indoor air quality project thoroughly by reviewing relevant factors such as occupant complaints, ventilation system performance, potential sources of indoor, outdoor, and subsurface contaminants, and measurement/observations of air flow and circulation. Based on our comprehensive evaluation, a site-specific air, soil and/or groundwater sampling strategy is designed to collect data that will aid in determining the vapor source, which enables MEC<sup>X</sup> to create solutions that improve air quality control and mitigate potential risks.

MEC<sup>X</sup> has extensive knowledge in the design, installation, and operation of vadose zone soil vapor mitigation and remediation systems. We have engineered and installed systems for commercial and residential properties utilizing the following technologies:

- Sub-Slab Depressurization (SSD) systems for soil vapor mitigation
- Sub-Membrane Depressurization (SMD) systems for soil vapor mitigation
- Passive Soil Vapor Extraction (PSVE) systems for vadose zone remediation
- Closed-Loop Enhanced Soil Vapor Extraction (ESVE) systems for vadose zone remediation
- Soil Vapor Extraction in conjunction with air sparging / chemical oxidation for soil and groundwater remediation

MEC<sup>X</sup> has the engineering design expertise, field experience and technical knowledge to identify and develop solutions for all of your environmental issues. For further information, please visit our web site [www.mecx.net](http://www.mecx.net) or contact one of our offices.