



Company Profile

Since 1994, Environmental Management Associates, Inc. (EMA) has specialized in all aspects of Environmental Site Investigation and Remediation Services for commercial, government, residential and professional clients. The company has extensive experience in the permitting and regulatory process and in working with Banks, Realtors, Legal Firms, Insurance Companies and Government Agencies.

Our Corporate Philosophy is to provide responsive, cost effective services while providing high quality workmanship, professionalism and strong consistent management to all of our customers. EMA prides itself on its workmanship, working efficiently to resolve problems while communicating honestly with our clients from the initial contact and throughout the work process. This criteria has led to an annual growth rate in the last three years of 33% and a client retention rate of 98%.

EMA provides responsive, cost effective services with technical and regulatory sophistication for our clients' various environmental projects. EMA's clients' primary criteria for selecting our company has been based on our production capability, capacity and work quality. EMA frequently designs tailor-made solutions that include all phases or portions of the required environmental services. EMA recognizes that different clients have different problems and requirements. EMA tailors our services to satisfy individual needs.

EMA prides itself on our ability to provide responsive, cost effective services and the technology to insure rigid compliance to project specifications, budgets, and schedules.

EMA's project management expertise, equipment, and dedicated staff insure the execution of environmental projects in a cost-effective and timely manner. Our team of professionals offer creative site assessment and remediation solutions servicing clients in both public and private sectors. All projects are conducted in accordance with EMA's strict requirements for health and safety, quality assurance, and quality control.

Principals

The three Principals of EMA each have seventeen or more years of experience in environmental investigation and remediation that includes but is not exclusive to storage tank management and remediation; commercial site investigations; Phase I, Phase II, Phase III investigations; Brownfields and industrial site development; as well as the design and construction of in-situ and ex-situ remediation systems.

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Resumes

Michael Kneucker, P.E.
President

Michael Kneucker has over seventeen years of experience in environmental field service with emphasis on site remediation and field analytical technologies. Mr. Kneucker has designed and installed numerous in-situ remediation systems including soil vapor extraction, advanced oxidation, bioremediation and air sparging technology equipment systems. He has implemented in-situ remediation systems for soil and groundwater including total fluids extraction, groundwater extraction, vapor extraction, ozone injection and various treatment technologies applied to the resulting effluent streams. He has also designed and implemented various in-situ bio-injection, bioremediation and enhanced natural remediation systems.

Mr. Kneucker has extensive experience in commercial and residential excavation projects and soil excavation in space-restricted areas. He has experience in building and structure evaluation relative to nearby excavation activities. He has managed numerous large-scale commercial and residential cleanup projects involving structure bracing or structure demolition and restoration.

Mr. Kneucker serves as Engineering Manager and Professional Engineer for all firm activities and supervises all environmental engineering projects including remedial investigations; feasibility studies; design and installation of soil and groundwater treatment systems; and site construction.

Mr. Kneucker's field laboratory experience has included successful completion of a large scale project for the Department of Defense in which hundreds of soil and groundwater samples were field analyzed for volatile organics, PAH and PCB's as part of a large-scale military base environmental investigations. Mr. Kneucker served as field manager of the laboratory for the project.

Nathan Thompson, C.P.G.
Vice President

Nathan Thompson has over seventeen years of experience in environmental field service with emphasis on site investigation and sample acquisition technologies. He was one of three technical advisors selected to contribute and review the API "Guidance Document on Field Analysis of Hydrocarbons in Soil & Groundwater" and also provided technical review to the NJDEP in preparation of the alternate "Groundwater Sampling Guide". Mr. Thompson heads up the Advanced Field Screening (AFS) program at EMA.

Mr. Thompson supervises subsurface assessment, property investigation, discharge permitting, regulatory compliance and site remediation. His field experience includes remedial investigations, feasibility studies, and remediation implementation with technical applications

Statement of Qualifications

utilizing soil vapor extraction, air sparging, bioventing, bioremediation, biotreatment, groundwater extraction, total fluids extraction, immiscible liquids recovery, thermal soil desorption and vapor/liquid treatment discharge systems.

Mr. Thompson supervises all geological and hydrogeological investigations as well as all drilling and monitoring well installations. He was instrumental in the development of a rapid site characterization program involving sampling, assessment and remediation design techniques using narrow diameter monitoring points. Professional experience has included expert testimony and litigation support involving contaminant release origin and age dating.

Mr. Thompson manages and has managed numerous commercial, industrial and public sector environmental assessment and remediation projects for EMA. He has broad experience in project management involving multiple responsible parties, insurance claims and cost sharing. He has managed many large-scale remediation projects from the initial assessment through case closure.

Christopher Sassaman, P.G. ***Principal***

Christopher Sassaman has over eighteen years of experience in the environmental industry. Mr. Sassaman has extensive experience in contaminant transport modeling and contaminant risk assessment. He is experienced in various air-sampling techniques and is an expert at assessment and remediation of airborne contaminants and mold.

Mr. Sassaman was Project Manager for a multiple point in-situ bioremediation system for soil and groundwater treatment of a large-scale diesel fuel spill. This system was the first such bioremediation system ever permitted and installed in the State of New Jersey. He serves as Senior Hydrogeologist and is proficient in standard and alternative soil and groundwater sampling techniques, aquifer characterization methods, remediation technology, feasibility testing and regulatory compliance matters.

Mr. Sassaman is a Project Manager on commercial and public sector cleanup projects and a technical resource for large-scale projects that may require more complicated cleanup strategies.

Professional Environmental Staff

The EMA staff provides professional engineering, certified Geologists, licensed well drillers, construction managers, heavy equipment operators and environmental technicians for completion of remediation projects. Our professional staff undergoes annual safety training and medical monitoring in compliance with OSHA standards.



Environmental Remediation Services

Environmental Site Investigations

EMA evaluates site remediation alternatives by investigating historical data, performing site evaluations and through lab analysis of samples collected. If the level of contamination warrants active site remediation, EMA will design a remediation system based on the contaminants of concern, the subsurface conditions, the distribution of contaminants, and the phases of contamination in the subsurface.

Environmental Construction, Demolition, Excavation & Disposal Services

EMA provides Construction Managers, Heavy Equipment Operators, and OSHA trained personnel for environmental construction, demolition, excavation, dewatering, and disposal projects. Project experience includes hundreds of underground storage tank closures, soil and groundwater remediation systems, installation of test pits, construction of soil treatment cells, sheet piling, and general construction projects including reengineering and site work for contaminated sites.



Groundwater Investigations

EMA conducts all phases of soil and groundwater remediation from the initial investigation through remedial action selection, implementation, and project closure. EMA's AFS approach utilizes field analysis of contaminants to reduce costs and phases of investigation while better defining the contaminant source area. This technique has been used by EMA to fully define sizable contaminate plumes in as little as two days and has also proven highly compatible with the tiered evaluation approach of risk-based corrective action.

Remediation System Design, Construction, Operation / Monitoring

The Company has Professional Engineers and Remediation Systems Specialists experienced in design construction, pilot testing, operation, and monitoring for a variety of system types including: Ozone Injection, Air Sparging, Soil Vapor Extraction, Total Fluid Extraction, Groundwater and Product Recovery, In-Situ and Ex-Situ Bioremediation. Ozone injection has been used to treat petroleum hydrocarbons and volatile organic by both direct oxidation and enhanced biological degradation.



Petroleum Storage Tanks

EMA assists commercial and industrial clients with all phases of underground and above ground storage tank management, including storage system design, permitting, installation, monitoring, and decommissioning. EMA holds all necessary licenses to perform tank work throughout the mid-Atlantic. EMA manages projects involving hundreds to millions of gallons of storage. Regardless of the scope, EMA brings the same professional and results oriented attitude to each project.

Managing the removal of leaking underground storage tanks can become an expensive undertaking for property owners. Depending on the size of the tank(s), extent of contamination and type of contamination, costs may vary greatly. EMA expedites the remediation of leaking tanks to vastly reduce the cost of cleanup and limit liabilities.

EMA's unique approach to finding cost-effective solutions are designed to satisfy all legal requirements while staying within budget. EMA is one of the leading tank management firms in the Mid-Atlantic with over 500 installation, closure, and remediation projects completed during the past several years.



Geoprobe System and Mobile Laboratory Services

EMA offers clients our in-house Geoprobe system that allows us to delineate a site not only efficiently but also at a cost savings for them. Using the Geoprobe system our experienced staff of Geologists and Well Drillers are able to rapidly delineate contaminant plumes, both vertically and horizontally, and simultaneously install long term monitoring, injection, or remediation points.

EMA's Mobile Laboratory offers a variety of on-site analytical testing of soil, groundwater and soil gas using portable field instruments, colorimetric methods, or immunoassay testing. For petroleum or solvent discharge sites, EMA uses USEPA gas chromatography purge and trap methods 601/602 to evaluate relative concentrations of volatile organic compounds such as BTEX, PCE or TCE.

EMA's highly sophisticated on-site testing provides real time data to the investigator that can be interpreted in the field and used to focus the investigation on recognized hot spots in the study area. This type of dynamic field screening can reduce the overall number of samples requiring analysis at an off-site laboratory, thereby expediting site delineation and reducing project costs and schedules.

The Mobile Laboratory combined with The Geoprobe System offers narrow diameter, temporary point, accelerated sample acquisition and remediation feasibility testing technique that utilizes "Real Time" data to focus the investigation and expedite site delineation and schedules.

Statement of Qualifications

EMA provides this Dynamic Workplan strategy as our 'Advanced Field Screening' (AFS) system.



Property Environmental Assessments

Phase I, Phase II Property Assessments

EMA provides preliminary site inspections as well as Phase I and II environmental assessments for commercial, public sector, industrial, farm, and residential properties. The company has extensive experience in the property assessment and regulatory process in working with Banks, Realtors, Financial Institutions, Legal Firms, Insurance Companies, and Government Agencies for their property evaluation needs. EMA provides property transfer environmental assessments to determine the environmental and economic viability of the property, the costs of the potential remediation of property and develops the design and construction of remediation systems to clean-up properties and meet regulatory standards.

EMA has experience with complex large-scale industrial transactions involving multiple environmental areas of concern as well as overlapping regulatory agencies and historical responsible parties.

Property Transfer Preparation

EMA works closely with property owners, financial institutions, attorneys, developers, and realtors to provide property transfer services in a timely fashion that will not disrupt the closing process. Our broad experience in property evaluations and cleanup have proven a valuable asset to many of our clients not only in the evaluation of properties for purchase but in preparing properties for sale. EMA has worked with clients through all phases of property assessments including estimation of the site cleanup and restoration costs. Our projects also include evaluation of industrial manufacturing and transport facilities for resale relative to acceptable federal or state regulations.

Brownfields

One of the first steps on the critical path of urban redevelopment is defining the nature and extent of the subsurface environmental contamination on the property of interest. In most instances, the involved parties desire the site assessment phase to be completed in a timely and cost effective manner in order to reach a decision point as to the economic viability and general marketability of the real estate. EMA provides reliable, quick, and inexpensive site assessments by using the Geoprobe System and Mobile Laboratory team. This team utilizes direct push sampling technology, narrow diameter collection points, and field laboratory analysis to assess subsurface contaminants. Once comprehensive assessment of the property has been completed, EMA can offer turnkey demolition and remediation services. EMA has worked with many of the leading institutions and developers on urban revitalization projects.

Wetland Assessment

For properties containing surface water or wet areas, EMA can provide delineation and assessment services to define wetland areas within the context of site development, property valuation, or environmental impact to wetlands from past or ongoing contamination. Previously completed site remediation projects have included regulatory permitting for wetlands disturbance, stream encroachment, and wetlands restoration.



Mold and Indoor Air Quality

EMA provides assessment and remediation design for airborne contaminants, including mold. Assessment work has included residential, commercial, and public sector facilities. Various assessments have been completed using collection of samples in air and on a large variety of surfaces and substrate. Airborne contaminant assessment was completed on a large nursing home facility with mold contamination affecting a number of residents with acute respiratory sensitivities.

Pre-Qualification

EMA is an approved Small Business Enterprise and offers its environmental services to state, government, public and private entities. EMA is Pre-Qualified with a variety of public, government entities including:

**New Jersey Economic Development Authority
The Port Authority of New York and New Jersey
Government Services Administration
New Jersey School Construction Corporation**

Representative Client List

Transportation

Amtrak
Conrail
CSX Transportation
New Jersey Transit
New Jersey Highway Authority

Insurance

Allstate Insurance Company
AIG – American International Group
Fireman’s Fund
High Point Insurance Company
State Farm Insurance
New Jersey Manufacturers

Legal

McCarter & English
Mason, Griffen, Pierson
Giordano, Hallern, Ciesla
Porzio, Bromberg, Newman
Dechert, Price, Rhoads

Government

General Services Contract (5 Yr. Contract)
U.S. Army – Ft. Dix
U.S. Air Force – Mc Guire Air Force Base
U.S. Navy – Earle Naval Weapons Station
Brick Township, New Jersey
Bureau of Interior, National Park Service
N.J. Dept of Environmental Protection
Colts Neck Township, New Jersey
Neptune Township, New Jersey
Freehold Township, New Jersey
Freehold Borough, New Jersey

Engineering

The Louis Berger Group
ENSR
CDM Federal Programs
AMEC
Sadat Associates
L. Robert Kimball Associates
The Whitman Companies

Chemical/Pharmaceutical

Benjamin Moore & Company
Warner Lambert

Financial

Summit Bank
Amboy National Bank

Utilities

Public Service Electric & Gas

Commercial

Asbury Park Press
American Store Properties
National Car Rental
Farleigh Dickenson University
Frigidaire Home Products
Freehold Cartage

Petroleum

Amerada Hess Corporation
Chevron
Exxon/Mobil
Valero Refining
Gulf Oil

Licenses, Certifications & Pre-Qualifications

<u>Program</u>	<u>Certificate #</u>	<u>Certificate Holder</u>
Underground Storage Tanks	NJ: US00712	EMA
Underground Storage Tanks	PA: 1540	EMA
UST UMR Install/Inspect	PA: 5163	Christopher Sassaman
Professional Engineering	NJ: GA278216	EMA
Professional Engineer	NJ: GE37498	Michael Kneucker, P.E.
Professional Geologist	CPG9787	Nathan Thompson, C.P.G.
Professional Engineer	PA: 49481	Michael Kneucker, P.E.
Professional Geologist	PA: PG002405G	Christopher Sassaman, P.G.
Professional Geologist	PA: PG002210G	Nathan Thompson, P.G.
UST Closure/Install/ Subsurface Evaluator	11573	Michael Kneucker
UST Closure/Subsurface Evaluator	12621	Nathan Thompson
UST Closure/Subsurface Evaluator	12585	Christopher Sassaman
UST Subsurface Evaluator	300882	Kimberly Howard
New Jersey Certified Well Driller	JD22211	Norman Crane
Wastewater Treatment Operator	5720	Michael Kneucker
N-2 Wastewater Treatment Operator	0523	Nathan Thompson
N-2 Wastewater Treatment Operator	7807	Christopher Sassaman
OSHA 40/8 Hr. Supervisor	9/17/04	Michael Kneucker
OSHA 40/8 Hr. Supervisor	9/17/04	Nathan Thompson
OSHA 40/8 Hr. Supervisor	9/17/04	Christopher Sassaman
OSHA 40/8 Hr. Supervisor	9/17/04	Victor Mushinski
OSHA 40/8 Hr. Supervisor	9/17/04	Kimberly Howard
OSHA 40/8 Hr. Supervisor	9/17/04	Luis Echevarria
OSHA 40/8 Hr. Supervisor	9/17/04	Justin Printz
OSHA 40/8 Hr. Supervisor	9/17/04	Norman Crane
Residential Mold Inspector	NAETI/IESO	Kimberly Howard
Mold Remediation	Envirogenics	Justin Printz
Mold Remediation	Envirogenics	Mike Kneucker
Wetlands Delineation	Rutgers Certified	Michael Kneucker
Licensed Site Remediation Professional LSRP	510221	Nathan Thompson