



# REMEDICATION SERVICES

*SINCE 1968*

At Handex, we provide customized full-service solutions by performing remediation services with expert field service for all remediation types from excavation, system installation, through OM&M – with significant experience in water treatment, petroleum, landfills, roadways, ports and other infrastructure industry projects.



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## Our Commitment

Handex has over 50 years of experience in the field which provides us with the understanding that your operations must be competitive and profitable as well as:

- Promoting safety
- Conserving resources and reducing waste
- Comply with environmental and community regulations
- Improving sustainability overall

That is why at Handex our vision is to be the safest, most reliable, trusted and consistently performing provider of environmental services.

## Who we are?

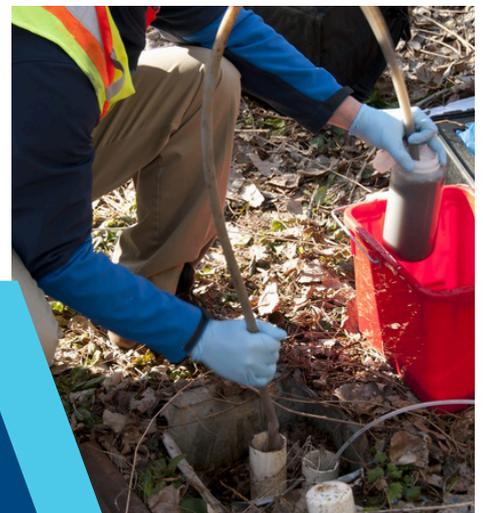
Founded in 1968, Handex is a full-service environmental company focused on providing professional environmental consulting, remediation, construction, vacuum truck services, emergency response and sludge dewatering services in the United States.

## Safety

Handex is committed to protecting the health and safety of its employees, clients, contractors and communities. Handex believes that all injuries and illnesses are preventable through cooperation with our employees, clients and contractors. Our goal is to prevent the occurrence of all work-related injuries and illnesses. To achieve this goal Handex has adopted superior health and safety performance as a core value. All Handex personnel have extensive training in Health and Safety, including Confined Space Entry and OSHA 40-Hour HAZWOPER and annual OSHA 8-hour refreshers.

## Our Value

We help our customers save money and time through waste minimization and system improvements.



Proud Member of



# OUR SOLUTIONS

## SYSTEM ENGINEERING/DESIGN, CONSTRUCTION & INSTALLATION

Our experienced teams of professional engineers and geologists remain hands-on throughout the entire design process. Our interaction ensures that each project achieves the established cleanup goals on time and within budget. As part of the design phase, we provide a cost estimate for both the capital investment and life cycle of the proposed solution.



Our foremen and construction supervisors play an essential role in the project design phase to ensure practical implementation of the proposed remedy and project success. We possess a long track record of working on a wide variety of sites with varying site-specific conditions, systems and regulations and has the experience as remediation experts to swiftly and economically service your needs with a high-quality design.

Handex has been awarded multiple Prudential-Davis Productivity Awards for implementing construction savings and innovative designs in the industry of environmental remediation. Our engineering team may incorporate innovative solutions if conducive to the scope of work for your specific needs and is prepared to design the most cost-effective solution for your site.

Our extensive experience allows us, in a timely manner, to provide the safe and efficient field engineering you need to make informed decisions that will best manage your risk and liabilities.

## OPERATIONS, MONITORING & MAINTENANCE (OM&M)



Handex provides a comprehensive OM&M program designed to minimize downtime, reduce system operating costs and explore alternative approaches as needed to achieve site closure. We accomplish this by utilizing systems that include automated remote monitoring, a Preventative Maintenance Program to prolong equipment life, and designs that feature critical safety devices.

Our personnel have installed, operated and maintained an assortment of soil, groundwater and air remediation and mitigation systems. Based on extensive experience, we have a unique insight into cost-effective remedial designs and system management.

OM&M costs often represent the single largest portion of lifecycle costs for site remediation. We provide OM&M services to customers with single or multiple soil, water and air treatment systems. An experienced field staff, along with our engineering and consulting personnel, are available to assist with the design and construction of treatment and remedial systems. We have in-house computer aided design and drafting (CADD) capabilities for as-built diagrams, permit approval drawings, and O&M manuals. We also have the experience necessary to evaluate and assess existing systems on site and provide recommendations for system optimization. The OM&M Program is structured to reduce system operation costs while exploring alternate approaches to achieving site closure.

# SOIL & GROUNDWATER REMEDIATION



The primary elements of success in managing soil and groundwater mitigation and remediation projects are:

- Focus on a successful up-front assessment and delineation of contamination plumes
- Extensive experience in designing and installing environmental treatment systems
- Thorough understanding of costs associated with each unique and distinct system

We are experienced with several types of conventional and innovative treatment technologies and remedies, such as:

- Biological treatment technologies
- Bioaugmentation
- Bioventing
- Biosparging
- Bioslurping
- Permeable reactive barriers
- Chemical treatment technologies
- Chemical precipitation
- Ion exchange
- Carbon absorption
- In-situ chemical oxidation
- Natural attenuation monitoring
- Surfactant enhanced recovery
- Permeable reactive barriers
- Solidification and stabilization
- Physical treatment technologies
- Air sparging
- Dual phase vacuum extraction
- Oil skimming
- Soil vapor extraction
- Excavation or dredging
- Pump and treat
- Thermal desorption

We also have the necessary experience to evaluate and assess an existing system on site and provide recommendations and implementation for system optimization. As soil and groundwater remediation experts, we will service your needs in a cost-effective manner utilizing the knowledge obtained through our extensive track record of working on a wide variety of sites with site-specific conditions, systems and regulations.

## ENVIRONMENTAL CONSTRUCTION, DEWATERING AND GROUNDWATER TREATMENT & DEMOLITION



Many of our clients depend on us to complete civil construction activities at contaminated sites. Examples of these services include road widening, storm sewer installation and demolition projects utilizing our experienced teams to complete those portions of the project which may be located in contaminated areas.

We have installed concrete reinforced pipe, drainage manholes, headwalls and provided many other project needs such as:

- Well point dewatering
- Treatment of dewatered effluent
- Screening of excavated soil
- Transportation and disposal of hazardous and non-hazardous soil and sediment
- Sheet piling
- Traffic management
- Erosion and sediment control
- Injectable barriers

# (UST/AST) TANK DISMANTLING/DECOMMISSIONING



At Handex, we have the technical capabilities and experience to serve your underground storage tank (UST) and aboveground storage tank (AST) removal needs. We provide these services in a timely, safe and cost-effective manner with our safety-focused, in-house employees and our own equipment.

Our technical team has worked with recipients of public funds to assist with underground storage tank removals, subsurface investigations and evaluations, and tank closures. We employ personnel that maintain Subsurface Evaluator Licenses for the remediation and removal of unregulated heating oil tanks.

## ENHANCED BIODEGRADATION/BIOREMEDIATION



We are fully equipped to mitigate soil and groundwater contaminants by in-situ chemical oxidation (ISCO) or enhanced biodegradation. Injection of chemical oxidants into a contamination plume can mitigate a wide variety of contaminants and is often used to address elevated concentration levels.

We have successfully completed injection events in compliance with stringent environmental rules and regulations. Chemical injection can also be used to accelerate biodegradation, and depending on the material injected, can be used to enhance anaerobic or aerobic biodegradation. Anaerobic biodegradation can remediate chlorine-based solvents such as PCE and TCE while aerobic bioremediation can accelerate natural attenuation of gasoline-related compounds such as BTEX and MTBE.

## VAPOR INTRUSION/INDOOR AIR INVESTIGATION/REMEDIATION



At Handex, we have the expertise to help you understand if your facility, building or residence is at risk. We provide reliable solutions that will allow you to fully comply with recent regulatory changes and keep occupants healthy and safe, including 24/7 air monitoring programs. We test for, evaluate and mitigate vapor intrusion quickly and cost-effectively. Our scientists and engineers have years of experience conducting vapor intrusion risk assessments and investigations. If we find a problem, we can design and install immediate response measures and permanent solutions.

## SITE DECOMMISSIONING & CLOSURE



We have trained and experienced personnel to perform site and system decommissioning services which allow an asset to be transitioned from an environmental liability to a profitable business entity. We employ remedial methods so that site closure is complete and defensible. When we close a site, clients can rest assured that the contamination has been fully delineated, treated and managed with the best remedial techniques available.

We have performed these and similar services for clients such as major developers, major oil companies, automobile dealerships, banks, real estate firms and pharmaceutical manufacturers. These services include:

- Facility decontamination
- Lead, asbestos and mold assessment and abatement
- UST / AST removal
- Building demolition
- Site reconstruction

# AIR STRIPPING/SPARGING



At Handex, we have built several sparge/vent/groundwater treatment trailers to be brought on site for use in short-term remediation or dewatering projects. We have used these trailers to allow sites with a few contamination-impacted wells to go straight to the less-costly Monitoring Only phase, eliminating the client's need to install and operate a remediation system. When possible, aboveground piping is used to save the expense of trenching during the installation of vapor-extraction, sparging and groundwater recovery wells.

# ASSESSMENT DRILLING SERVICES



We are uniquely capable of mobilizing the right drilling equipment to a site with minimal lead time because by maintaining our own equipment for use in conducting site assessments, remedial investigations and implementation of remedial measures. Our equipment includes drill rigs and associated equipment capable of penetrating most subsurface conditions. We maintain a fleet of conventional drilling and direct push rigs with a varied range of capabilities to meet the needs of the individual project goals and specific job site restrictions.

Our suite of equipment allows us to perform our own media sampling, well installations, soil vapor treatment and the design and construction of soil and groundwater remedial systems. We provide an added value for our clients by executing projects as a fully integrated team, utilizing knowledge of management, engineering and technical expertise to quickly and efficiently design and implement full-service remedial solutions for a wide variety of environmental contamination. In-house control of drilling allows us to modify its schedule far more easily than environmental companies that are dependent on subcontractors for drilling.

Our personnel are well trained to operate within industry best practices for safety and performance and to comply with all federal, state, and local environmental laws and regulations. Our operators and drillers are licensed in various states, including Florida, New Jersey, New York and Pennsylvania. Additionally, we have drillers certified by the National Ground Water Association.

# PROFESSIONAL ENGINEERS, GEOLOGISTS & LICENSED GENERAL CONTRACTORS



Handex provides a full complement of highly skilled, licensed, trained and safety-focused environmental professionals. Our team of specialists will ensure that your project is executed seamlessly, safely and within the agreed upon scope, schedule and budget. Handex employs a staff of approximately 100 engineering, environmental and construction professionals whose credentials include:

- Professional Engineers (PEs)
- Professional Geologists (PGs)
- Licensed Site Remediation Professionals (LSRPs)
- Pollutant Storage Systems Contractors (PSSCs)
- General Contractors (GCs)
- Licensed Underground Utility and Excavation Contractors
- Licensed Wastewater Treatment Operators
- Licensed Drillers
- Qualified Heavy Equipment Operators
- Licensed Electricians
- Licensed Pump Installers
- Licensed Mold Assessors and Remediators
- CDL-Licensed Technicians
- Certified Health and Safety Professionals
- Certified Project Management Professionals (PMPs)
- Certified Subsurface Evaluators
- Qualified Stormwater Management Inspectors

# NATURAL ATTENUATION MONITORING/COMPLIANCE MONITORING/SITE CLOSURE



We have experienced personnel that are trained to perform site and system decommissioning services which allow an asset to be transitioned from an environmental liability to a profitable business entity. We employ remedial methods so that site closure is complete and defensible.

When Handex closes a site, clients rest assured that the contamination has been fully delineated, treated and managed with the best remedial techniques available. We have performed these and similar services for clients such as major developers, major oil companies, automobile dealerships, banks, real estate firms and pharmaceutical manufacturers.

## LICENSED SITE REMEDIATION PROFESSIONAL (LSRP) OVERSIGHT



Our senior consulting professionals and state of New Jersey licensed site remediation professionals (LSRPs) are ready to provide the appropriate level of environmental consultation to meet regulatory requirements for your engagement.

All investigation, mitigation and remediation activities overseen by our senior staff are conducted with adherence to all applicable state rules and regulations. Our personnel use professional judgment to develop remedial action work plans for your project and then oversee proper execution of all remedial and mitigation actions. Work plans are updated as needed when additional information concerning your site becomes available.

## ENVIRONMENTAL SITE ASSESSMENTS & REMEDIAL INVESTIGATION



We provide a full complement of real estate portfolio and individual site management services, including brownfields support and Phase I and II site assessment services, to help clients make informed decisions about properties they currently own or are evaluating for purchase or divestment. We complete non-invasive Phase I environmental assessments following standards of the American Society for Testing and Materials (ASTM) Standard Practices for Phase I Environmental Assessments (E1527, E1528 and E1903).

In addition to Phase I and II site assessments, we routinely perform preliminary assessments/site investigations, remedial investigations/feasibility studies and vapor intrusion assessments to identify potential or existing environmental contamination liabilities and determine the nature and extent of contaminated areas of concern on site. If remedial action is necessary to remedy existing contamination, we will evaluate alternative remedies for site remediation to minimize impact of potential receptors, including waterways, commercial businesses and private residences. At Handex, we conduct environmental due diligence according to all applicable state and federal regulations.



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