



A commitment to environmental responsibility.

# ENVIRONMENTAL ENGINEERING

## About HSA

### HSA Engineers & Scientists

(HSA) provides full-service environmental, geotechnical, engineering design, water resources, construction, forensic and litigation support services. Since our formation in 1989, we have provided comprehensive, integrated engineering solutions and are well-known for our pioneering engineering research and expertise.

Our large, diverse, and highly qualified technical staff remains our primary resource, and includes more than 300 professional practitioners with backgrounds in engineering, geology, soil physics, chemistry, toxicology, water resources, biology, ecology, hydrogeology, hydrology, statistics, construction management, and information management. Given the diversity of our staff and consulting solutions, HSA has the ability to offer a true integrated approach to business issues that combines insight and innovation from multiple disciplines with a wide range of industry knowledge to help organizations excel anywhere in the world.

Now more than ever, organizations recognize the need to integrate environmental factors into core business decisions.

In today's dynamic business and regulatory environment, HSA strives to provide our clients with comprehensive, sustainable and financially-sound business solutions to support the management of environmental liabilities. HSA was founded on the proposition that each client has unique needs that require individual solutions, and that the right application will provide our clients with cost-effective solutions to their environmental issues. From environmental site assessments to site redevelopment, HSA has the proven capabilities to work within a variety of regulatory frameworks with our client's objectives in mind. Throughout our history of service, HSA has offered extensive expertise in the design, implementation, and management of site investigation and remediation programs.



As environmental regulations have developed and innovative technologies have evolved, HSA has always respected its clients' mandate of cost-effective environmental responsibility with careful regard for protection of the public and the environment. Our portfolio of successful projects includes: Superfund sites; RCRA Facility Investigations; State coordinated Contamination Assessment and Remedial Action; and numerous Brownfields projects.

HSA delivers services that our clients need to achieve their goals, while meeting aggressive timelines, stringent permitting standards and tight budgets. We work to meet the many challenges of our clients, with environmental services that include site assessment, regulatory compliance and permitting, hydrogeology, water resources, solid and hazardous waste management, remediation, and community outreach services. By thoroughly assessing the characteristics of the project, understanding applicable regulatory constraints, appreciating the potential environmental impacts, and the economic resources available, we have been able to develop creative technical and financial approaches for the life of our client's project.



# Our Services

## Air Quality

- Monitoring Programs
- Dispersion Modeling
- Feasibility Studies
- Predictive Emission Monitoring Systems (PEMS)
- Title V Permits
- Operation and Construction Permits
- New Source Review (NSR) Permits
- Risk Management Plans (RMP)
- Operation and Maintenance Plans (O&M)
- Compliance Auditing
- Source Testing and Monitoring Programs
- Control Equipment Efficiency Studies
- Indoor Air Quality

## Brownfield Redevelopment

- Building Decommissioning and Demolition
- Due Diligence
- Financial Incentive Analysis and Application
- Contamination Assessments
- Environmental Sampling and Reporting
- Remedial Investigation/Feasibility Studies (RI/FS)
- Risk-based Cleanup Criteria Determination
- Remedial System Design and Construction
- Storage Tank Assessment/Closure
- Operation, Maintenance, and Monitoring
- Construction Management and Contract Administration
- Regulatory Interface/Negotiation
- Community Relations

## Due Diligence

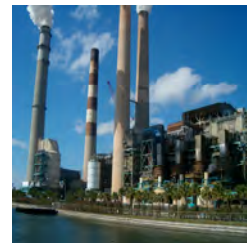
- Phase I/II Environmental Site Assessments
- Property Condition Assessments
- Brownfield Redevelopment
- Remedial Investigation/Feasibility Studies (RI/FS)
- Risk-based Cleanup Criteria Determination
- Remedial System Design
- Remedial Construction
- Storage Tank Assessment/Closure
- Operation, Maintenance, and Monitoring
- Construction Management and Contract Administration

## Environmental Permitting & Compliance

- Air Quality
- Army Corps of Engineers Section 10/404 Permit Applications
- Dredge/Fill Analyses
- Environmental Impact Statements
- Floodplain Management and Studies
- Stormwater Pollution Prevention Plans (SWPPP)
- Multi-Sector General Permit (MSGP) Applications
- National Pollutant Discharge Elimination System (NPDES)
- Spill Prevention, Control, and Countermeasures (SPCC) Plans
- RCRA Permitting/Compliance
- Water Resource Consulting, Development & Protection
- Wetlands Services
- Wildlife and Habitat Evaluations

## Site Investigation & Remediation

- Contamination Assessments
- Environmental Sampling and Reporting
- Exposure Assessments
- RCRA Facility Investigations
- Brownfield Redevelopment
- Remedial Investigation/Feasibility Studies (RI/FS)
- Risk-based Cleanup Criteria Determination
- Remedial System Design
- Remedial Construction
- Storage Tank Assessment/Closure
- Operation, Maintenance, and Monitoring
- Construction Management and Contract Administration



## Solid Waste Management

- Landfill Siting and Conceptual Design
- Landfill Permitting and Approval
- Landfill Assessment
- Landfill Design
- Landfill Operations, Maintenance, and Monitoring
- Regulatory Reporting
- Landfill Gas Systems
- Leachate Collection and Treatment
- Landfill Expansions
- Landfill Caps and Covers
- Landfill Remediation

We bring our expertise to you.

HSA's organizational structure enables us to bring our expertise from personnel in any office to any project, regardless of locations. Our network of offices, our ability to mobilize rapidly wherever our clients need us, and our ability to establish offices in new locations to support our clients enable us to apply our resources and knowledge locally.



locations

**Corporate Office - Tampa, Florida**

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**Fort Myers, Florida**

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**Pensacola, Florida**

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**Mobile, Alabama**

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**Houston, Texas**

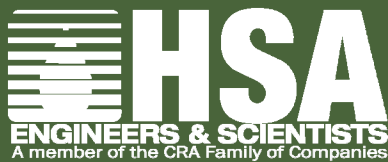
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**services |**

- Accident Reconstruction
- Building Sciences
- Construction Services
- Drilling
- Ecological Services
- Engineering Design
- Environmental Engineering
- Fire Investigations
- Geotechnical Engineering
- Geophysics
- Litigation Support
- Materials Testing
- Structural Forensics
- Water Resources Management



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*\*Engineering services performed in North Carolina by our affiliate HSA Engineers and Scientists of North Carolina, Inc.*