HSW Engineering, Inc. (HSW) has distinguished itself as a leader in the engineering and environmental industry by adhering to its philosophy of incorporating strategic, long-range planning throughout all phases of our projects. HSW provides expertise in the following service areas relating to Environmental Engineering, Consulting, and Permitting.

**Remedial Alternative Evaluation, Planning, Design, & Implementation**

HSW is recognized for developing sound technical, regulatory, and administrative solutions to RCRA, CERCLA, TSCA, vapor intrusion, and related environmental issues. We pride ourselves on the number of regulatory closure orders granted through utilization of practical engineered solutions and institutional controls. Senior staff members are experienced in designing and implementing Remedial Action Plans prepared in accordance with Chapter 62-780, Florida Administrative Code (FAC). Our licensed professional engineers and geologists, construction managers, and O&M technicians are experienced in effectively guiding remediation projects from design through completion with an emphasis on practical exit strategies through thoughtful planning and optimization techniques. Risk-based corrective action techniques are used to save our clients time and money while protecting human health and the environment.

**Environmental Permitting, Regulatory Agency Interaction & Negotiation**

Keeping our clients’ long-term goals in mind, we work closely with our clients and regulators to identify appropriate means of addressing regulatory and permitting requirements for a broad array of jurisdictions and sectors. Depending on a project’s complexity, intermittent project status meetings may be conducted at pre-determined milestones throughout the project’s duration to keep the project on track with established goals to ensure a successful outcome. We have an excellent record of satisfying the simultaneous objectives of proponents, regulators, stakeholders and communities. The foundation of many of our successful projects hinges on our effective working relationship with regulatory agencies at the federal, state, and local levels. The professional relationship and outstanding reputation we have developed with regulators allows for open discussions and innovative approaches to the complex regulatory world we live in; and provides receptive audiences for the creative solutions that individuals have come to expect from HSW.

**Risk Assessment**

HSW’s risk assessments help support risk-based cleanups by focusing efforts on reducing site-specific risks in a cost-effective manner. When coupled with toxicology, risk analysis evaluates a chemical hazard, the potential for exposing humans or ecological receptors to that hazard, and the increased probability (i.e., risk) of an adverse health-related outcome. A Baseline Human Health Risk Assessment (HHRA) and Ecological Risk Assessment (ERA) document evaluations conducted to satisfy US EPA’s threshold criterion that a selected remedy must be protective of human health and the environment. HSW has performed numerous risk assessments (RAs) as a component of environmental investigations for both public and private clients. HHRA are completed in accordance with US EPA’s risk assessment guidelines. ERAs are not as well defined, and typically require creative evaluation of site-specific circumstances and negotiation with stakeholders after defining objectives and concerns.
Environmental Property Assessment
HSW staff members have completed assessment and remediation projects in Florida for more than 30 years, including more than 500 Environmental Site Assessments (ESAs). ESAs are conducted in accordance with the current version of ASTM International (ASTM) Standard Practice for ESA Process (E 1527) and Standard Practice for Limited Environmental Due Diligence: Transaction Screening Process (E 1528). Phase II ESA is performed in accordance with the ASTM E 1903 Phase II ESA Processes if environmental concerns are unresolved during the Phase I ESA, or the presence of recognized environmental conditions is suspected. HSW reduces costs by conducting limited scope site assessments where data indicate the extent of contamination is limited and there are no exposure pathways that can adversely impact the public health or the environment.

Storage Tank Permitting, Compliance, and Closure Assessment
HSW staff members have worked at over 300 different facilities in the Southeast and Puerto Rico on projects involving discharges from stationary storage tanks. The facilities have include single tank, vehicle-maintenance stations, emergency generator supply vessels, multiple-tank service stations and transportation company terminals, pipelines, bulk-storage terminals, and refineries. These projects have involved emergency response measures and closure activities.

Contamination Assessment of Petroleum & Hazardous Substances
HSW’s team members are recognized experts in planning and executing site assessments of contaminated properties. Clients and regulators recognize and respect our understanding of complex hydrogeology, occurrence and movement of groundwater, and the chemical and physical properties of petroleum hydrocarbon compounds (gasoline, diesel, and fuel oils), chlorinated solvent, inorganics (e.g., arsenic), PCBs, pesticides, and other hazardous substances.

Hazardous Material Management, Compliance, & Mitigation
HSW and team regulatory experts have a detailed knowledge of the myriad of regulations, policies, and guidance associated with hazardous waste identification, management, and corrective action. Thorough regulatory evaluations of our client’s wastes and contaminated media are prepared for discussion with the regulators, often resulting in de-regulation of the materials and considerable cost savings for our clients. Our waste compliance audits frequently reveal compliance issues that can be mitigated prior to regulatory violations.

Brownfield Program Expertise
HSW works closely with clients to identify, prioritize, and assess targeted sites, develop strategies to reach cost-efficient regulatory closure, and achieve redevelopment goals. Our creative dedicated staff develops custom programs to solve the key challenges of assessment, cleanup, closure, and revolving loan fund grants at best values.