Regulations today are complicated and require complex and copious amounts of documentation, typically managed in paper format, spreadsheets, and/or databases. MSE Group offers an efficient alternative that frees project managers from their desks, binders, and filing cabinets. We develop program-specific, electronic portable web-based data management systems designed with customized features such as layered maps, status notifications, corrective action tracking, electronic forms, and tablet integration.

The benefits of our systems include reduced compliance vulnerabilities, quick and efficient data review and recall, and portability of data between desktop computers and mobile devices such as tablets and smart phones.

**WHY MSE**

MSE Group approaches every project with exceptional attention to detail. We begin each project by thoroughly analyzing our client’s current circumstances and future needs, and build our team of professionals with expertise in the project area. With our team in place and scope defined, we become your partner in completing projects on time and on budget.

We gather data from our client, coupled with industry best management practices and guidelines, to generate a prototype data management system that establishes structure and features for the client to review. We iterate this process until the client’s requirements and needs are met. During development, the system is thoroughly tested and quality controlled to minimize issues once it is deployed. After passing quality control, the system is deployed—either onsite or via the cloud—and all relevant stakeholders are trained in its usage.

With our core values in mind, you can expect us to approach each project with:

- Integrity
- Creativity
- Accountability
- Respect
- Positive attitude

**ABOUT US**

MSE Group is an international environmental, engineering, and construction firm. Success for our clients, teaming partners, and employees is derived from an intense work ethic and the ability to enjoy the journey.

We are an SBA-certified 8(a), EDWOSB 8(m), DBE business with additional state and local small business and minority certifications throughout Texas, Florida, and the southeastern United States. We stand ready to support your needs and prove why we are **EXCEEDING EXPECTATIONS EVERY TIME.**
FOR MORE INFORMATION ABOUT MSE GROUP, PLEASE CONTACT

Paulina Bruck, Marketing Manager
407.629.8180 • pbruck@msegroup.com

Chris Parent, VP/Program Manager
407.402.4307 • cparent@msegroup.com

SERVICE LIST

• Compliance program process mapping
• Conceptual data management system development and feasibility assessments
• Development of custom data management systems
• Data migration to established compliance software
• Custom development and refinement of databases
• Commercial off-the-shelf (COTS) systems tailoring and facilitation
• Data analysis and trending

REPRESENTATIVE PROJECTS

• Industrial Hygiene (IH) Monitoring. This custom-developed, intranet-based web application system monitors and tracks industrial hygiene for an industrial client with facilities located worldwide. The system is coded utilizing modern techniques and all open-source programming languages (PHP, JavaScript, CSS, and HTML5) with a backend MySQL database so it is responsive and platform-agnostic between desktop and mobile devices. For user familiarity and to reduce training time, existing client IH forms, which populate data to be calculated, analyzed, and trended into graphs and reports, were converted into digital versions. Working in tandem with these forms is an IH Plan Manager that tracks yearly requirements and status, notifying users via a dashboard of outstanding or upcoming sampling to be accomplished.

• Electronic Stormwater Pollution Prevention Plan (SWPPP) Management. This system utilizes a custom-developed GIS mapping component that eliminates traditional and costly GIS services and allows user-customizable layers, pins, shapes, and text to be added to the map through the web interface. The system was tailored to meet all existing Florida Department of Environmental Protection (FDEP) requirements of traditional physical SWPPPs (e.g., potential stormwater discharge paths for each possible source are shown as a layer and through a modal popup for quick emergency response and evaluation anywhere). Data from monthly and annual National Pollutant Discharge Elimination System (NPDES) inspections and quarterly visual water sampling are electronically captured, analyzed, and then presented back to the user in a digital format stored on an external file system within the intranet. A statistical dashboard tracks these items so that they can later be trended for further analysis. Using cutting-edge unmanned aerial vehicles, MSE acquired current and updated high-resolution aerial imagery photographs for integration into the web-based mapping system, resulting in a highly detailed aerial map as a layer (vs. traditional Google Earth or other commercially available imagery) at a much lower cost than manned aircraft.

• Environmental, Health, and Safety (EHS) File Management. By tagging and linking all department records into a data management system, this custom-developed system is designed with multiple queries and reports to easily locate records, add records to categories, and identify appropriate filing cabinet drawers. In addition to linking files into the database, the first page of each record was scanned and externally linked to the digital record as a PDF so users are able to inspect the record before physically “pulling” it from a filing cabinet.

• Electronic Spill Prevention, Control, and Countermeasures (SPCC) System. This system utilizes a custom-developed GIS mapping component that eliminates traditional and costly GIS services and allows user-customizable layers, pins, shapes, and text to be added to the map through the web interface. The system was tailored to meet all existing FDEP requirements for traditional physical SPCC plans (e.g., the facility map acts as an interactive GIS system that can identify each asset and show detailed information quickly and dynamically). This system was deployed internally on site for a client with multiple facilities in Florida. Utilizing calendar scheduling and notifications, the system ensures that all the assets are properly maintained and inspected on the required terms with minimal user interaction. MSE leveraged the previously developed electronic SWPPP system by utilizing the same underlying structure and coding standards, and then adapted it to meet the requirements of the SPCC plan. Similar to the electronic SWPPP, the electronic SPCC can be deployed onsite or via the cloud.