



# CONTAMINATION ASSESSMENT & REMEDIATION



MSE Group provides contamination site assessment and remediation services for private, municipal, and federal clients nationwide for various chemical constituents and impacted media. From Phase I and Phase II assessments and corridor evaluations to multimillion-dollar turnkey solvent remediation projects, MSE delivers on time and on budget. We collect all site characterization and screening-level data necessary to design and implement a presumptive remedy and create an exit strategy, and our proactive approach with regulators and stakeholders results in fast-track schedules and cost savings to clients.

Through our general contractor and pollutant storage system contractor licenses, we provide in-house remedial construction services, streamlining project delivery schedules and eliminating subcontractor administrative/overhead costs. When design changes or field conditions present remedial implementation challenges, our specialists efficiently address and resolve the issue. MSE's technology expertise includes bioremediation, monitored natural attenuation for organic and inorganic constituents, bio-augmentation, phytoremediation, soil vapor extraction, air sparging, bioventing, in-situ chemical oxidation, solidification/stabilization, and engineering and institutional control design and implementation.

## WHY MSE

Simply put, we are experts at developing solutions to complex issues. MSE Group approaches each project with exceptional attention to detail by analyzing our client's current circumstances and future needs, and building a team of professionals with expertise in the project area. With our team in place, we become your partner in completing projects on time and on budget.

We are a licensed engineering and geology consulting business and maintain general contracting capabilities. With our core values in mind—and our goal to **exceed expectations every time**—you can expect MSE to approach every project with:

- Integrity
- Creativity
- Respect
- Accountability
- Positive Attitude



## ABOUT US

FOUNDED IN 2002

MSE Group, a Montrose Environmental Group company, is an international environmental, engineering, and construction firm providing qualified and competitive environmental, engineering, and health and safety services to public and private entities nationwide. Success for our clients, teaming partners, and employees is derived from an intense work ethic and the ability to enjoy the journey.

As a part of the broader Montrose network, which includes more than 70 offices globally, MSE stands ready to support your needs and exceed your expectations every time.

# PRACTICE AREA

## FACTS



- Teams of professional engineers and professional geologists registered in six states
- Staff with more than 200 years of combined experience
- More than \$15 million in turnkey assessment and remediation projects since 2009, ranging from less than \$10,000 to \$4 million
- Have won national awards and saved clients millions of dollars through integral planning, value engineering, and construction approaches

## SUCCESSES

### EXCELLING IN OUR FIELD

**“[MSE] assisted the NPS with a complicated, unusual, and multistage site assessment with high public visibility. Their technical expertise, professionalism, and focus enabled us to make the right choices and arrive at a good decision point.”**

–National Parks Service

**“[MSE] comes highly recommended due to their in-depth knowledge of state and federal regulations as well as their established relationships with local regulators.”**

–Dept. of Veterans Affairs, Acting Chief

[www.msegroup.com](http://www.msegroup.com)

EXCEEDING EXPECTATIONS EVERY TIME



# SERVICE LIST

- Contamination assessment
- Hydrogeologic studies
- Conceptual model development
- Groundwater quality mapping
- Hydraulic testing
- Vapor transport analysis
- Risk assessment
- Groundwater flow rate
- Transport modeling
- Geotechnical modeling
- Geospatial mapping
- Remedial strategies development
- Regulatory negotiation support
- Bench and pilot scale testing



# REPRESENTATIVE PROJECTS

- **Chlorinated Solvent Turnkey Remediation, Global Security Company, Orlando, FL.** Provided all aspects of contamination assessment, design, permitting, regulatory coordination, and construction associated with a site impacted with chlorinated solvent constituents. The project involved characterization of over 10 contaminant source areas associated with a former manufacturing facility, finite-level source area refinement, groundwater treatment system design, sheet pile design, wetland reconstruction, deep soil excavation and dewatering, site restoration, and alternative site closures for inorganic and petroleum-impacted media.
- **Interim Measure Implementation for Groundwater at Space Launch Complex (SLC) 12, USACE Mobile District, Cape Canaveral Air Force Station, FL.** Provided preliminary and final remedial design, permitting, and construction at a complex site that contained a 2-acre solvent source area beneath the previously inaccessible SLC 12 structure. Bioremediation using emulsified vegetable oil (EVO) and potassium lactate was selected as the final remedy. The goal was to prepare final design plans and specifications, provide turnkey construction services, complete performance monitoring, and achieve significant contaminant mass reduction as a result of the remedial efforts.
- **SLC 37 Ozone Remediation – Design/Build, USACE Mobile District, Cape Canaveral Air Force Station, FL.** Provided remedial design, process optimization, and operation and maintenance of two treatment systems designed to treat chlorinated volatile organic compounds in soil and groundwater at SLC 37. The project consisted of extensive contamination assessment and complex oxidation and bioremediation design and construction.
- **Petroleum Investigation, Remediation, and Alternative Site Closure, Dept. of Veterans Affairs, Orlando, FL.** Provided environmental assessment, remediation, and site closure services for the VA outpatient clinic in Orlando. Limited site access due to underground utilities resulted in alternative closure strategies implemented through engineering and institutional controls, which, as a result, realized significant project savings. Approval of the restrictive covenants was obtained in May 2016.
- **Long-Term Monitoring and Land Use Control Maintenance, USACE Mobile District, Cape Canaveral and Patrick Air Force Base, FL.** Provided environmental remediation, long-term monitoring, and land use control inspections following RCRA and TSCA guidance at more than 30 RCRA solid waste management units including SLC 11, SLC 12, SLC 16, SLC 17, SLC 36, Firefighter Training Area FT-16, Landfill 18, Facility 84920, Area 55, and Facility 1608.

FOR MORE INFORMATION ABOUT MSE GROUP, PLEASE CONTACT

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