

Performance Driven, Results Based.





Your Project's Success is Our Mission

REGENESIS Remediation Services (RRS) is the nation's leading *in situ* remedial technologies service provider. RRS is staffed by highly trained, and degreed remediation professionals, comprising many of the industry's most experienced operational and technical experts. To serve our clients nationally with the best combination of talent and capabilities, we have regionally-based operation centers, each supported by a technical design lead, project manager, project supervisors, environmental staff scientists, and dedicated injection fleets.



What Sets RRS Apart?

Experienced

Successful implementation of hundreds of remediation applications throughout the US, leading to site beneficial reuse and regulatory closures annually.

Client and Project Goal Focus

A focus on our client objectives and a vested interest in the overall success of our technologies.

Comprehensive Reporting

Each project is concluded with a comprehensive summary report detailing significant activities of the entire project. Activities including means and methods, general observations, technologies applied, quantities and volumes, and distribution and influence observations are all part of the report.

Specialized Equipment, Standardized for Performance

We design and build our injection systems in-house to properly handle, mix, and apply our remediation technologies efficiently and cost-effectively saving time and money for our clients.

REGENESIS' Extensive Knowledge Base

Working closely with REGENESIS' R&D and Technical Services Divisions, RRS combines all aspects of *in situ* remediation — remedial technology, design, and application to ensure the best treatment is applied to your site.

Quality Control

Point spacing, injection intervals, distribution monitoring, placement validation, reagent dosing, and product inventory are just some of the activities tracked as part of RRS' quality control program.

Adapting to Improve

We train to adapt and modify applications for improved remedial performance based on field conditions observed in real-time.

Ownership

RRS is committed to meeting the objectives, taking personal responsibility and ownership to ensure your project's success.

Our Personnel

Success starts with our people.

Degreed Professionals

The RRS team is comprised of remediation professionals with extensive scientific and technical backgrounds in relevant fields including geology, hydrogeology, and biogeochemistry.

Comprehensively Trained

Our remediation professionals are trained in all aspects of remediation, from industry-foundational concepts such as bioremediation, contaminant fate and transport, and matrix diffusion to practical application methods like injection sequencing strategies, amendment distribution and dose-response monitoring, and design verification testing.

Goal-Focused

Most of all, the entire RRS team maintains a constant focus on project objectives, adapting to the field conditions and improving the applications as needed to achieve overall treatment success.

Difference Makers and Ownership

Because we focus on our clients' objectives and have a vested interest in the overall success of our technologies, our quality of work is matched only by our commitment to do the right thing.

"Thanks for your leadership in making this project a success. Thank you for the daily updates and keeping me informed on the progress and running a very efficient operation. The attention to our safety concerns/protocols was invaluable."

Kevin Gilliam, Property Manager
Charleston Services, Inc.



Case Study: RRS Warranties Performance for Large-Scale Application, Allowing Development of a Historical Auto Manufacturing Facility

RRS completed a remedial application encompassing almost 1,000,000 square feet of chlorinated solvent groundwater impacts that allowed a city in Wisconsin to redevelop a 107 acre automobile manufacturing facility, which had remained vacant for over a decade. RRS worked with the City to develop a performance-based contract, tying project payments to meeting clearly established remediation goals. To ensure the design would meet the objectives, RRS implemented a robust design verification and product placement validation testing program. Additionally, RRS developed a communication plan to keep project stakeholders informed of progress during the complex and dynamic application. The initial results demonstrate that the project has already progressed substantially toward meeting the goals. Based on these results, the development moves forward, revitalizing economic opportunity in the city and surrounding region.



"I wanted to share what a great job your team did on my latest project. They worked extremely hard, and were very diligent and determined to give us the best field project they could. Conditions were not always easy, and they did a great job to overcome logistic issues. I look forward to working with REGENESIS Remediation Services again in the future. They represented REGENESIS very well."

Joel Parker, Ph.D., PG, CP
Principal Engineer
Hamp, Mathews & Associates

Experience

RRS is the nation's leading remediation products service provider, applying more *in situ* remedial products on more sites than anyone in the industry.

Experience Highlights

- Remedial reagents applied 290+ days of the year
- Experience working in the most challenging subsurface and atmospheric conditions
- Numerous remediation products, technologies, and approaches used
- Hundreds of clients served, ranging from Engineering News Record Top 5 Environmental Firms to Local and Regional Consultancies
- From corner laundromats and gas stations to 100-acre manufacturing and DoD facilities



RRS has Applied REGENESIS and non-REGENESIS Chemistries at Hundreds of Sites Across the Country



800+
Applications Completed

100+
Applications Per Year

13 Million+
Gallons Applied

-5° F
Lowest Project Temperature

15 Million+
Pounds Applied

123° F
Highest Project Temperature

"I have nothing but good things to say about working with the REGENESIS team. I was very impressed with the dedication shown by the field technicians, specifically their willingness to investigate, interpret, and contribute daily to the overall success of a very complex and dynamic PlumeStop® application. The safety culture of the field team was made self-evident with zero safety incidents or accidents over the course of a three month project. The management and technical support teams were equally impressive. They were available around the clock and readily provided professional and expert support that included on-the-fly design adjustments and a smooth product delivery schedule, avoiding lost time and keeping the project moving forward and on schedule, despite several significant deviations. Upon completion of the field application, the REGENESIS team quickly provided a thorough application report for communication to the Client.

Their continued support and interest in the project, post-application, has showed no sign of slowing down. Ongoing technical support and transparent evaluation of post-implementation results has reinforced trust and understanding between REGENESIS, AECOM, and our Client. I genuinely look forward to working with REGENESIS on future projects!"

**Jim Buzzell, Geologist,
Deputy Project Manager**
AECOM

Capabilities

RRS is well-equipped to address even the most demanding site contamination issues.

Treatment Approaches Used

- In Situ Bioremediation
- Chemical Sorption and Sorption-Enhanced Bioremediation
- In Situ Chemical Oxidation (ISCO)
- In Situ Chemical Reduction (ISCR)
- Combined Remedies and Integrated Technologies

Amendments

- Colloidal Activated Carbon
- Zero Valent Iron
- Chemical Oxidants
- Controlled-Release Electron Donors and Acceptors

Application Methods

- Simul-point Hydraulic Percussion (i.e., Direct Push) Injections
- Injection Wells
- In Situ and Ex Situ Soil Mixing
- Bedrock Straddle-Packer Injections
- Injection-Extraction Approaches

Equipment

- Standard and high-volume injection application systems accommodate any project size
- Specialized injection tooling, simultaneous multi-point injection capabilities, and custom manifold setups

Application Quality Control and Detailed Technical Reporting

- Continuous volume, pressure, flow rate, and distribution monitoring for continuous feedback and quality control
- Daily project correspondence and comprehensive technical summary reporting for accurate recordkeeping



Case Study:

RRS Completes the First and Longest-Running Successful In Situ Treatment of PFAS in the U.S.

The first successfully demonstrated *in situ* treatment of PFAS (per- and polyfluoroalkyl substances) in the U.S. was performed by RRS at Camp Grayling Joint Maneuver Training Center in Michigan, utilizing PlumeStop® Colloidal Activated Carbon. RRS direction was instrumental to the project, observing formation responses and product distribution to refine the design, optimize the application sequencing methods, and modify the injection tooling. This pilot test of a PlumeStop *in situ* permeable reactive barrier to treat PFAS has resulted in the complete removal of the contaminants from groundwater following a monitoring period approaching three years. Chlorinated solvents commingled with the PFAS at substantially higher concentrations have also been fully remediated thanks to RRS' outstanding field efforts.



Injection Application Equipment

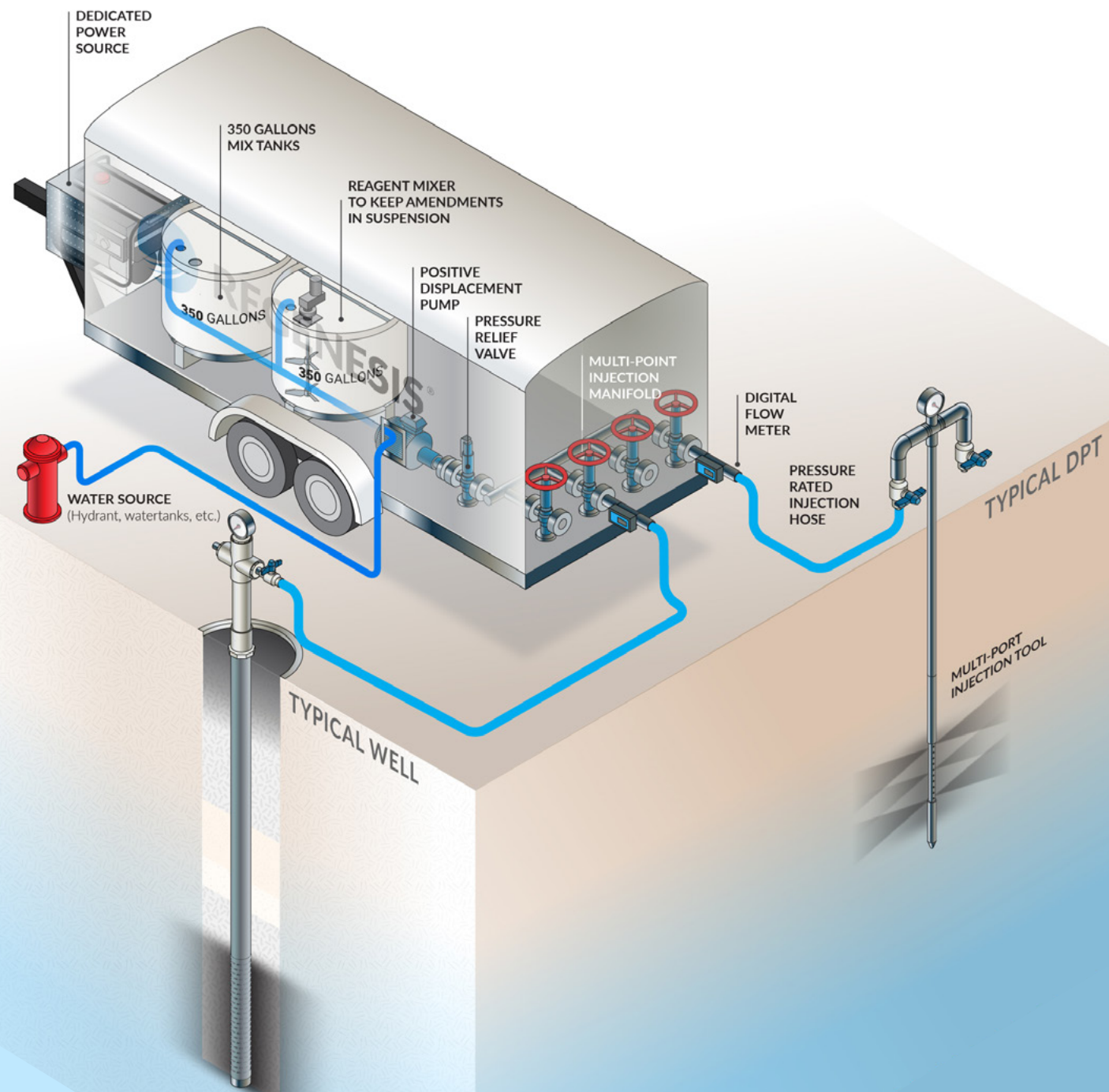


Overhead view of injection trailer dimensions

RRS has a nationwide, dedicated fleet of ready-to-deploy injection application systems strategically located throughout the US that provide comprehensive injection services, reliability, and accountability.

We have numerous purpose-built injection applications systems, and we can custom build systems and appurtenances to accommodate any scenario.

Typical Injection Application System



Our Equipment

- Nationwide Dedicated Fleet
- Mobility
- Specialized
- Tried and Tested
- Modern and Efficient
- Quality
- Reliable Operations



Soil cores collected during the application process depict complete coverage of PlumeStop® onto aquifer soil materials.



Groundwater samples provide the insight necessary to make real-time adjustments to achieve better results.

A Proven Process Focused on Achieving Site Goals RRS employs a success-driven process from project conception to completion

Our Process:



A client contacts REGENESIS for a solution to remediate contamination at their site. Regional Sales, Technical Services, and RRS team members collaborate with the client to understand the project goals, specify a remedy, and prepare an initial remedial application design and cost proposal.



If necessary, a plan for design verification testing or a pilot test is developed with the client to confirm the initial design parameters and baseline conditions.



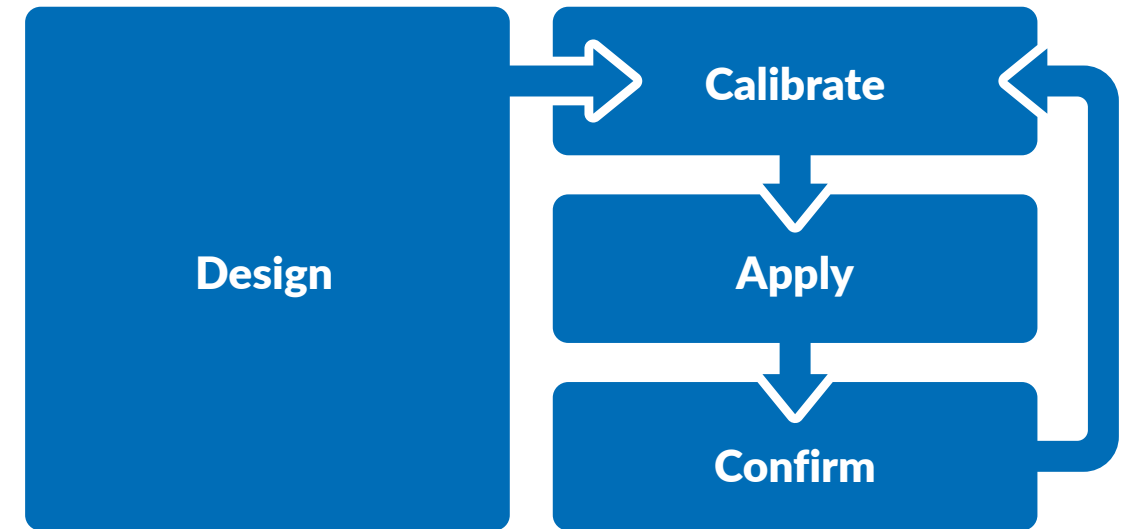
At the start of the application, the design is confirmed or calibrated based on initial product distribution monitoring data.



During the application, the formation's response is observed and the product distribution monitored to confirm and, if necessary, refine the design to improve the remedial outcome.



Calibrating, applying, and confirmation is continuously performed throughout the project duration.



Performance Driven Process

- Design a Field-Ready Remedial Application in Collaboration with Technical Services
- Calibrate the Design to Match Field Conditions and Injection-Dose Response
- Apply the Design with High Efficiency using the Safest Operating Procedures
- Confirm the Application is Achieving the Desired Distribution throughout the Target Treatment Volume



Required Health and Safety Training

- Health and Safety OSHA Required 40-Hour and Annual 8-Hour Update
- Drug and Alcohol Awareness Training
- New Associate Orientation
- Supervisor Training
- Defensive Driving
- Driver Preparation and Hazard Recognition
- Heat Stress Prevention

*Please note that not all training topics are listed.

Medical Surveillance, Drug and Alcohol Testing

- DOT and Non-DOT medical surveillance comply with State and Federal law.
- Drug and alcohol testing support REGENESIS' efforts to maintain a drug-free workplace and are conducted per applicable laws.

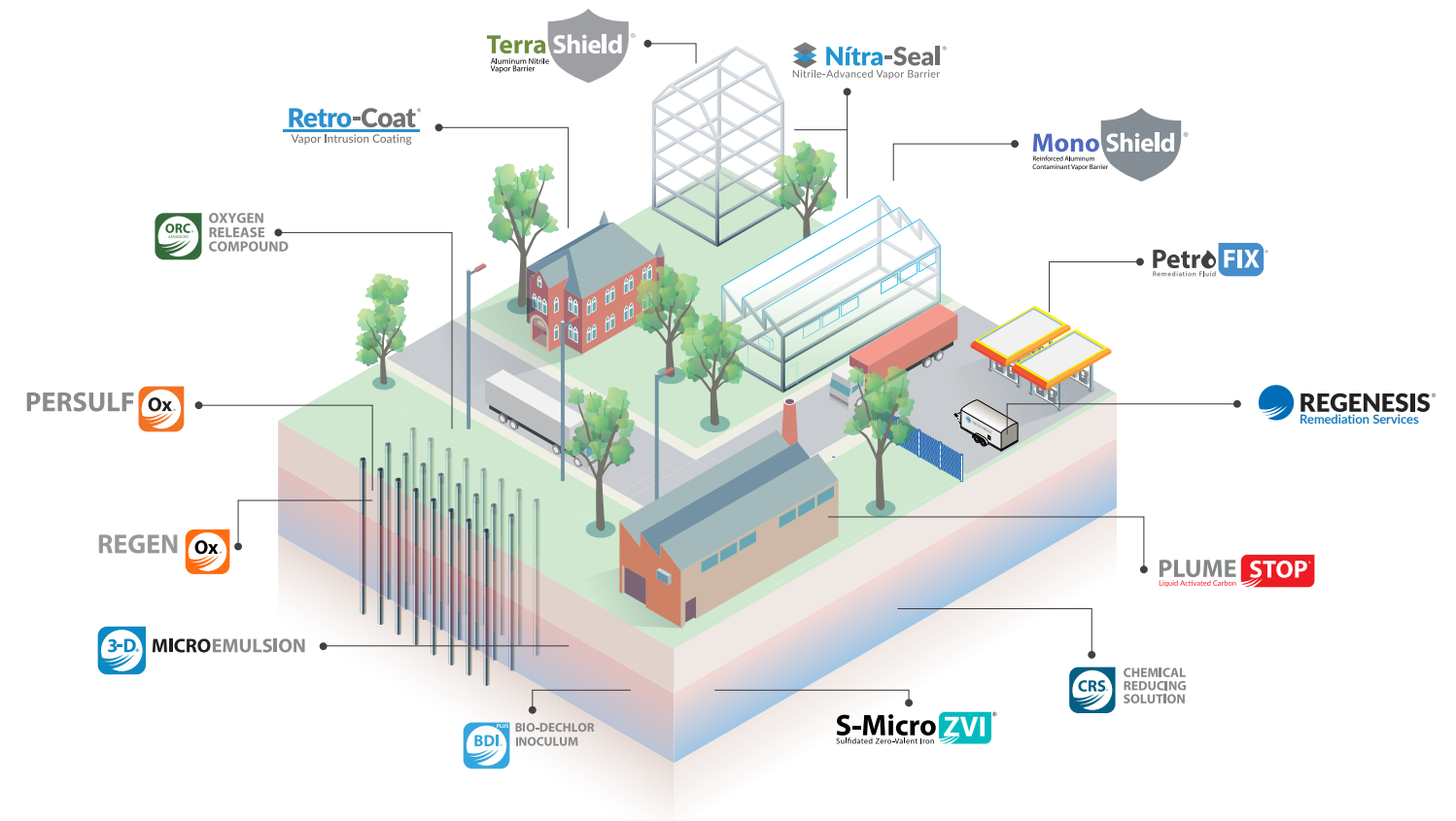
Safety Culture Ingrained in our Approach

The top priority of any project is to ensure it is completed safely.

RRS personnel are trained and committed to maintaining a safe and healthy working environment. The RRS team integrates project management, application activities, and quality with the highest health and safety standards applied to every project.

The RRS team participates in regularly scheduled training throughout the year, and each team member is empowered to stop unsafe work conditions through our Stop Work Authority program.

RRS participates in a robust health and safety reporting program that includes site audits, near-miss reporting, and job safety analysis to promote continuous safety awareness and accident prevention. This commitment results in RRS' outstanding safety record.



About REGENESIS

At REGENESIS we value innovation, technology, expertise and people which together form the unique framework we operate in as an organization. We see innovation and technology as inseparably linked with one being born out of the other.

Inherently, innovation imparts new and better ways of thinking and doing. For us this means delivering expert environmental solutions in the form of the most advanced and effective technologies and services available today.

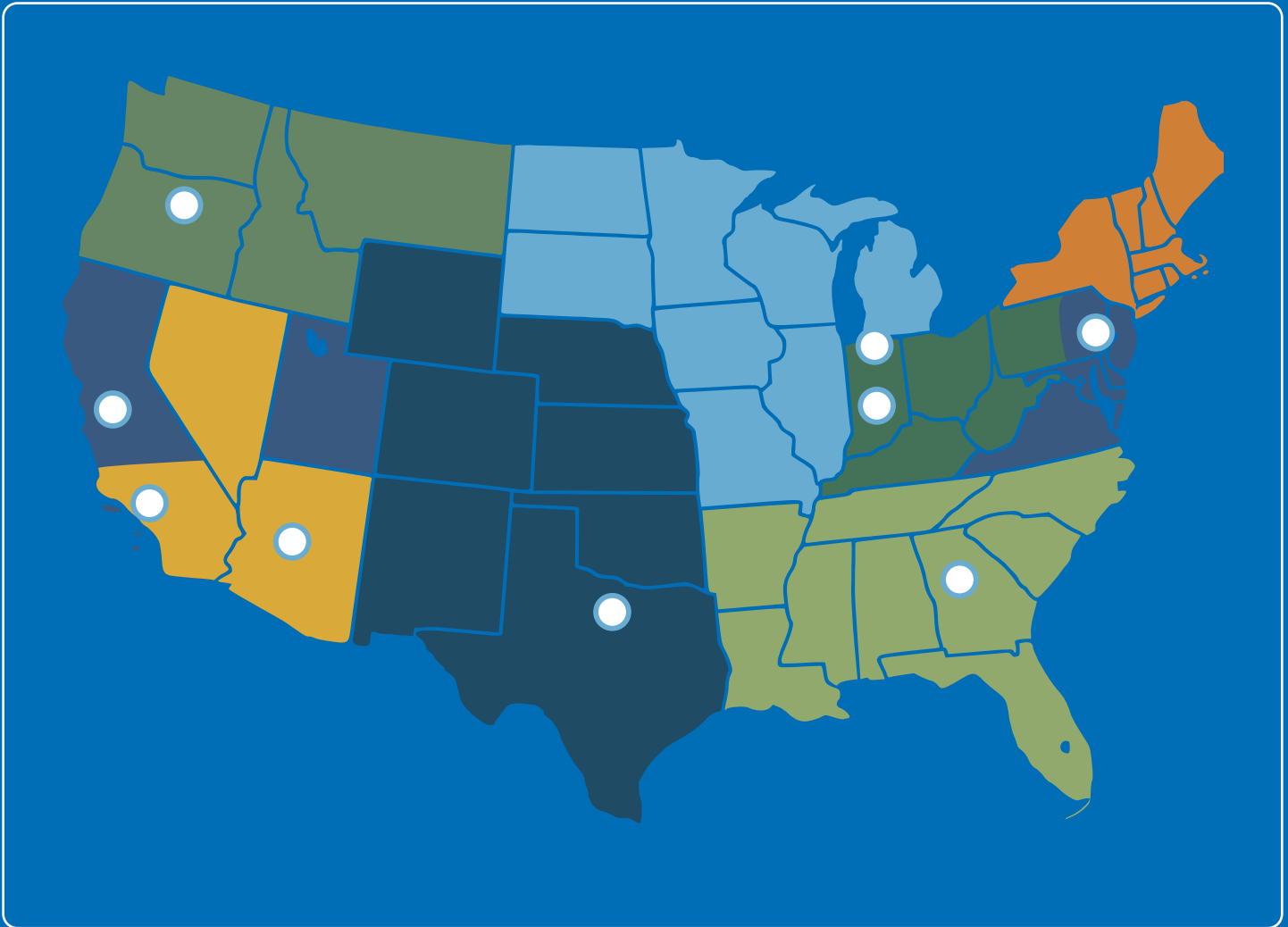
We value expertise, both our customers' and our own. We find that when our experienced staff collaborates directly with customers on complex problems there is a high potential for success including savings in time, resources and cost.

At REGENESIS we are driven by a strong sense of responsibility to the people charged with managing the complex environmental problems we encounter and to the people involved in developing and implementing our technology-based solutions. We are committed to investing in lasting relationships by taking time to understand the people we work with and their circumstances. We believe this is a key factor in achieving successful project outcomes.

We believe that by acting under this set of values, we can work with our customers to achieve a cleaner, healthier, and more prosperous world.



We're Ready to Help You Find the Right Solution For Your Site



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