



# YOUR NATURAL SOLUTIONS

## Patented Methods for *In Situ* Bioremediation

### Product and Service Offerings

EOS Remediation's family of products incorporates a proven, patented ( U.S. Patent# RE40448, EP 1 315 675) technology resulting from more than eight years of research and testing by world renown bioremediation scientists and engineers. Information about our science, performance, ease of use, cost-effectiveness and on-site success has been documented in countless papers and in more than 100 scientific publications, making our products some of the most-tested, researched and accredited options for *in situ* remediation. This information can be found on our website, [www.eosremediation.com](http://www.eosremediation.com).

EOS Remediation also offers specialized equipment for sale and rent, including a metering system that operates without electricity, using water pressure as the power source. We can provide on-site project support. Our technical staff includes individuals who have been instrumental in developing EOS Remediation's emulsified oil technology and who have relevant hands-on work experience implementing our technology on multiple chlorinated solvent sites.

### Product Capabilities and Descriptions

EOS Remediation leads the industry in scientifically field-proven products for Enhanced Anaerobic Bioremediation, Enhanced Aerobic Bioremediation and Bioaugmentation. Our products include: **EOS<sup>®</sup>**, a powerful organic substrate for Enhanced Anaerobic Bioremediation; **EOS<sup>®</sup> AquaBupH<sup>™</sup>**, a buffered electron donor; **EOx<sup>™</sup>**, a calcium-based product for Enhanced Aerobic Bioremediation designed to effectively function in both groundwater and saturated soils; and **BAC-9<sup>™</sup>**, an enriched bioaugmentation culture capable of degrading chlorinated solvents to innocuous end products efficiently via halorespiration. EOS Remediation's products are specifically developed and designed for cost-effective, *in situ* treatment of groundwater.

#### Enhanced Anaerobic Bioremediation

EOS Remediation, a leader in Enhanced Anaerobic Bioremediation technologies, leveraged its research and experience to develop market-leading products and appropriate supplements to maximize effectiveness. Combining these elements allows EOS customers to rest assured that they are buying products that deliver optimum results.

**EOS<sup>®</sup> 598B42** – The **EOS<sup>®</sup>** flagship product is a water-miscible concentrate that is easy to handle in the field. **EOS<sup>®</sup> 598B42** includes rapidly biodegradable substrates to “jump start” bacterial growth, slow-release biodegradable substrates to support long-term respiration, and a suite of nutrients for enhancing the growth of halorespiring and other indigenous bacteria. It is active in the aquifer for longer than three years and is non-toxic to the environment. This product can be distributed across a large aquifer volume and is effective in promoting reduction of chlorinated solvents, perchlorate, energetics, acid rock drainage, oxidized metals and other recalcitrant chemicals.

**EOS<sup>®</sup> Vitamin B<sub>12</sub> Supplement** – **EOS<sup>®</sup> 598B42** offers added value by providing an optimal diet for the halorespiring bacteria in the form of a proprietary Vitamin B<sub>12</sub> Supplement. Competing products do not include amino acids, trace minerals, B vitamins and the additional B<sub>12</sub> supplement found in **EOS<sup>®</sup> 598B42**.

**EOS<sup>®</sup> AquaBupH<sup>™</sup>** – **EOS<sup>®</sup> AquaBupH<sup>™</sup>** is an ideal product for *in situ* bioremediation of contaminated sites having an acidic pH. By incorporating buffering materials into the proven **EOS<sup>®</sup>** patented technology, this revolutionary new patent-pending product addresses the same range of contaminants as **EOS<sup>®</sup>**, with the added benefit of immediate and long-term pH adjustment. Additionally, the buffering materials in **EOS<sup>®</sup> AquaBupH<sup>™</sup>**, when diluted with water, are designed for effective distribution across contaminant plumes.

## Bioaugmentation

Bioaugmentation is the addition of natural microbial strains or laboratory-enriched variants to the environment to enhance bioremediation. EOS Remediation provides a cutting-edge product to meet this need.



**BAC-9™** is a microbial inoculant product used to bioaugment an aquifer to enhance reductive dechlorination of chlorinated ethenes and ethanes. Supplied as a high density concentrate, the **BAC-9™** consortium is the result of rigorous laboratory and field testing. **BAC-9™** bacteria stimulate *in situ* bioactivity and "jump start" your project by reducing the time required to grow the *Dehalococcoides sp.* population to effective cell densities.

## Enhanced Aerobic Bioremediation

**EOx™** **EOx™** is an oxygen releasing compound to complement our scientifically-proven family of anaerobic bioremediation products. **EOx™**, a calcium-based product, is designed to be effective in both groundwater and saturated soils. The controlled release of oxygen from **EOx™** accelerates biodegradation by indigenous aerobic microorganisms, resulting in a higher level of sustained bioactivity and increased contaminant removal. When hydrated, **EOx™** slowly releases oxygen over an extended period of time to degrade a wide range of organic contaminants (e.g., gasoline, fuel oils, MTBE; creosote; PAHs; PCP; vinyl chloride).

## Company Overview

EOS Remediation, founded in 2002, offers a family of proven, bioremediation products that lead the industry by being scientifically researched, independently validated and consistently achieving on-site success. By allowing science to lead product direction, EOS Remediation has been – and remains – the cutting-edge provider of bioremediation products. Our suite of products promotes biotransformation of contaminants into non-toxic end products. EOS scientists, who are known worldwide, actively participate in product advancement and are routinely involved with client projects. EOS Remediation combines excellent products with responsive customer service to further ensure superior performance.

## Executive Staff and Management

When it comes to successful bioremediation of recalcitrant compounds, having the right talent on your team is critical. Our experience and expertise is unmatched in the marketplace. EOS Remediation is managed by personnel known worldwide as industry leaders and staffed by experienced, knowledgeable researchers in the field. EOS Remediation not only informs and educates our customers with peer-reviewed technical papers and academic research, but also endeavors to provide outstanding customer service and assistance, helping to ensure superior remediation outcomes.



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