Empowering Clean Water®

Sustainable & Smart Solutions for Biological Nutrient Removal

Featuring MicroC® Premium Carbon Sources and Nitrack® Advanced Automation Technology



EOSi

Your Mission is Our Mission.

“

OUR MISSION OF EMPOWERING CLEAN WATER® IS CLEAR. WE ARE DRIVEN TO PROTECT AND PRESERVE OUR PLANET’S WATER BY PROVIDING INDUSTRY LEADING PRODUCTS AND SERVICES. OUR COLLECTIVE EFFORTS RESULT IN CLEAN DRINKING WATER, HEALTHY ECO-SYSTEMS, PRESERVATION OF WATER RECREATION, AND THE BEAUTIFICATION OF OUR NATION’S WATER RESOURCES.

SAMUEL LEDWELL
PRESIDENT

Since 2003,



Optimizing Biological Nutrient Removal

EOSi enhances biological nutrient removal (BNR) by providing non-hazardous, low-cost and high-quality carbon sources for denitrification, biological phosphorus removal applications and more.



Enabling Capital Avoidance

EOSi helps wastewater treatment facilities avoid costly capital upgrades by enabling solutions within existing footprint to help meet nutrient removal requirements and goals.



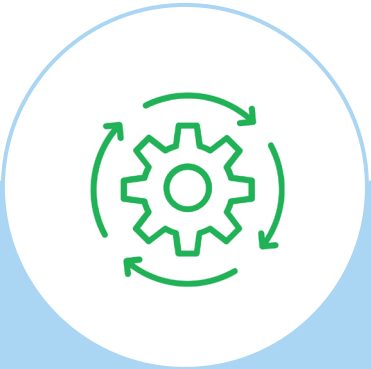
Delivering Risk-Free Compliance

EOSi helps deliver permit compliance while minimizing operational risk by supplying high quality products on-time coupled with our team of BNR experts and process control technologies.



Providing Technical Expertise

EOSi provides technical and industry expertise to hundreds of operators to support compliance, optimize BNR performance, and guide utilities through evolving nutrient removal requirements.



Enhancing Process Control

EOSi enhances process control by delivering award-winning automation technology, application and engineering services, and remote monitoring for ongoing optimization and compliance.

EOSi is the leading provider of complete biological nutrient removal solutions for long-lasting and low-cost compliance.

Since 2003, Environmental Operating Solutions, Inc. (EOSi) has been committed to “Empowering Clean Water” and has led the industry in helping its customers comply with increasingly stringent discharge regulations for nitrogen, phosphorus, selenium and perchlorate contamination. EOSi builds long-term partnerships with its customers by providing complete treatment solutions. These solutions include EOSi’s proprietary and environmentally sustainable MicroC® supplemental carbon products, Nitrack® process monitoring and control systems, and highly qualified process engineers, who provide on-going technical support to ensure our customers maintain environmental permit compliance at the lowest possible cost.

Why Partner With EOSi?

EOSi is a solutions oriented company that combines MicroC® non-hazardous carbon sources, Nitrack® advanced automation, robust supply chain capabilities and industry-backed consultative expertise to meet specific customer objectives.

BNR Optimization & Support

EOSi provides expertise to enhance BNR performance, reduce operational costs, and ensure permit compliance. We work closely with facilities to optimize processes and drive long-term efficiency.

Premium Quality at Low-Cost

MicroC® Premium Non-hazardous Carbon Sources offer top-tier quality formulas engineered for a range of nutrient removal needs—at a price that fits your budget.

On-Time Delivery

EOSi ensures uninterrupted operations with dependable, nationwide supply chain capabilities. Our logistics network is built for responsive service so you get the right product, right on time.

Quality Assursance & Laboratory Excellence

EOSi maintains rigorous quality assurance and in-house lab testing to ensure every product meets the highest standards of safety, consistency, and performance.

Product & Packaging Versality

EOSi offers a wide range of product formulations and packaging options to meet the unique needs of every facility. From totes to bulk delivery, flexibility ensures easy handling and seamless integration.

Sustainability Impact

EOSi is committed to sustainable solutions that support cleaner water. Our products and practices help reduce greenhouse gas emissions and drive measurable environmental benefits.

Our Solution

We Provide Results Not Just Products

550+
Municipal & Industrial Customers Served

Our Approach

EOSi can help customers develop and implement their overall regulatory compliance strategy while minimizing associated costs. We take a holistic approach and develop solutions based on customer needs, processes, and goals.

1

Enhance BNR

With MicroC® Non-Hazardous Premium Carbon Sources for denitrification, biological phosphorus removal, BOD addition, and more.

2

Automate BNR

With award-winning Nitrack® Advanced Automation and process monitoring of real-time data, detailed pump views, historical trends and more.

3

Optimize BNR

With EOSi's in-house engineering and technical support for ongoing process improvement, cost efficiency, and compliance maintenance.



20+
Years of Manufacturing & Distribution

40,000+
Customer Deliveries Worldwide

250+ Million
Pounds of Nutrients Removed

Premium Products at Affordable Prices

MicroC® Carbon Sources

MicroC® 1000

Carbohydrate Based

Best Suited for Small Municipal, Package/ Decentralized & Commercial Facilities

MicroC® 1000 is a non-hazardous, eco-friendly carbon source designed to enhance biological contaminant removal in water and wastewater treatment. Unlike traditional chemicals like methanol, it eliminates concerns about flammability and toxicity—making your operations safer and more sustainable. With low capital costs and simple storage and feed system requirements, MicroC® 1000 is easy to implement and ideal for both full-scale use and pilot evaluations.

MicroC® 3000

Alcohol Based

Best Suited for Facilities Seeking Savings & Performance Boost by Avoiding Pure Methanol

MicroC® 3000 is an alcohol-based, renewable carbon source designed as a direct, drop-in replacement for methanol in municipal and industrial wastewater treatment. Made from sustainable agricultural inputs, this “green” methanol offers cost-effective nitrogen removal and faster kinetics—delivering better performance and safer handling, without sacrificing efficiency.

MicroC® 4000

Custom Formulations

For Sensitive and/or Specialized Applications Including Selenium & Perchlorate Removal

The MicroC® 4000 Series offers tailored carbon solutions enhanced with essential micro and macronutrients—formulated to meet the specific demands of your wastewater characteristics and treatment goals. Building on the proven performance of MicroC® 1000 and 2000, these customized blends provide targeted support for optimal nutrient removal and system performance.

MicroC® 2000

Glycerin Based

Best Value of All Non-Hazardous Carbon Sources on Market, by $/lb Contaminants Removed

MicroC® 2000 is a glycerol-based, non-hazardous carbon source engineered for efficient biological nitrogen and phosphorus removal in water and wastewater treatment. Safe and sustainable, it eliminates the flammability and toxicity risks of traditional options like methanol. With low capital requirements and easy integration into existing systems, MicroC® 2000 delivers reliable performance from pilot testing to full-scale operations.

Consistent & Superior Quality

Our rigorous end-to-end quality control program ensures consistent, high-performance products across our network of 20+ MicroC® manufacturing facilities. Engineered for stability, our solutions maintain their integrity during long-term storage—so you get reliable results every time, from delivery to deployment.

Non-Hazardous Assurance

Our premium non-hazardous formulas are certified USDA BioPreferred and derived from natural resources providing a win for the environment and your bottom line. Because it's biogenic, MicroC® can help facilities reduce their Scope 1 greenhouse gas emissions—unlike methanol, which contributes to CO_2 emissions.

Versatile Packaging

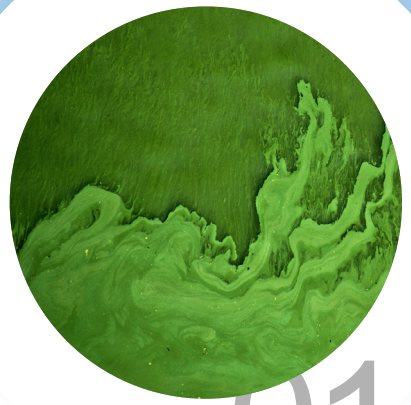
EOSi offers a full range of packaging options to match the scale and setup of your operation—whether you need bulk deliveries, totes/IBCs, 55-gallon drums, or 5-gallon pails. Our versatile packaging ensures easy integration into your existing system, no matter the size or scope of your application.

Validated Performance

With over 550 customers across North America, EOSi's solutions are trusted by industry leaders. Our performance is validated by top equipment and process suppliers, consulting engineers, and academic institutions—delivering results backed by real-world success and expert endorsement.

Applications & Markets

EOSi provides tailored carbon solutions and programs for a wide range of applications—from municipal and industrial wastewater treatment to advanced nutrient removal processes. Our products and expertise support clients across sectors including food and beverage, chemical manufacturing, oil and gas, and more—helping each achieve compliance, improve efficiency, and protect the environment.



01

Denitrification

Excess nitrogen from wastewater discharges can fuel harmful algal blooms in natural water bodies. EOSi's MicroC® products are specifically designed to support denitrification processes, helping treatment facilities reduce nitrogen levels and protect aquatic ecosystems.



02

Enhanced Biological Phosphorus Removal

EOSi provides reliable carbon solutions to support Enhanced Biological Phosphorus Removal (EBPR), helping wastewater treatment facilities improve phosphorus removal performance and meet stringent effluent limits.



03

Biochemical Oxygen Demand Supplementation

MicroC® Carbon Sources for BOD addition can help promote microbial growth until stable biomass is achieved during periods of seasonal reductions, new plant startup, temporary shutdown/maintenance, or other process changes.

50%

MAXIMUM REDUCTION IN CHEMICAL USAGE WITH NITRACK® PROGRAM OPTIMIZATION.

#1

PROVIDER OF SUPPLEMENTAL CARBON PROGRAMS IN NORTH AMERICA.

100%

CUSTOMER SATISFACTION WITH ON-TIME DELIVERY AND 24/7 SUPPORT.



04

Municipal/Centralized Wastewater

EOSi partners with municipal wastewater treatment plants to implement supplemental carbon programs that support enhanced BNR to meet increasingly stringent effluent limits for nitrogen and phosphorus while optimizing process performance and costs.



05

Packaged/Decentralized Wastewater

EOSi supports decentralized, packaged, and commercial/residential facilities with tailored strategies, technical support and a range of product offerings backed by a robust supply chain network to achieve compliance.



06

Industrial Wastewater

EOSi helps industrial clients cost-effectively meet their BNR and compliance objectives across an array of industries including meat and poultry processors, power generation, mining, petroleum refineries, landfill leachate, and many others.

Nitrack® Program & Services

EOSi's MicroC® Premium Carbon Sources paired with the advanced award-winning power of the Nitrack® program provides unlimited peace-of-mind and an extra set of eyes with real-time monitoring, performance optimization, an "anytime-anywhere" interface and up to 20% additional savings on carbon feed costs.

1

Developing Program Design

EOSi process engineers collaborate to establish Nitrack® operating parameters and monitoring setpoints for seamless integration to help you optimize money, time and risk.

2

Onboarding Nitrack® Program

With the Nitrack® design confirmed, MicroC® products are never under-fed or over-fed. EOSi team members perform quick and efficient installation of Nitrack® sampling, monitoring, and control equipment.

3

Continous Monitoring & Optimization

Access to real-time data monitoring, custom dashboards, and ongoing EOSi process & technical support to continuously optimize performance means never having to worry about permit limits again.

Maximize Savings

Up to 20% Reduction in Carbon Feed Costs

Reclaim Time

Quick Deployment & Maintenance Reduction

Eliminate Risk

Preventative Performance Management



Optimize Anytime, Anywhere



360-Monitoring & Automation

Virtual Nitrack®'s simplified design utilizes advanced -driven software and components to enable operators to remotely manage and optimize performance to achieve nutrient removal goals. The Nitrack® HMI app provides a dashboard view of real-time data, detailed pump views, historical trends, and tracking of field equipment and assets on-site.

Data & Operational Security

Virtual Nitrack® ensures top-tier security with strong firewalls, cutting-edge encryption, reliable authentication, and secure certificates. Remote access to the Nitrack® is locked down through a stateful firewall, accessible only via VPN. Connectivity to the site's PLC system uses Prosoft gateways for air-gapped subnets, keeping the site and Nitrack® networks safely and completely separated.

Cloud-Based Reliability

Virtual Nitrack®'s cloud-based control systems integrate effortlessly with customer processes, ensuring maximum savings, quick deployment, hardware reduction, and remote commissioning. Devices arrive on site preconfigured and pre-wired for easy install in less than 10 minutes with minimized maintenance needs enhancing overall system reliability.

24/7 Access & Support

Gain peace of mind and better control of your biological nutrient removal process with 24/7 access to real-time data and the ability to completely customize the Nitrack® HMI experience on any device and any operating system. EOSi process and application engineers are also available for ongoing technical support, process optimization or modification, and troubleshooting.

Multiple Packing Options

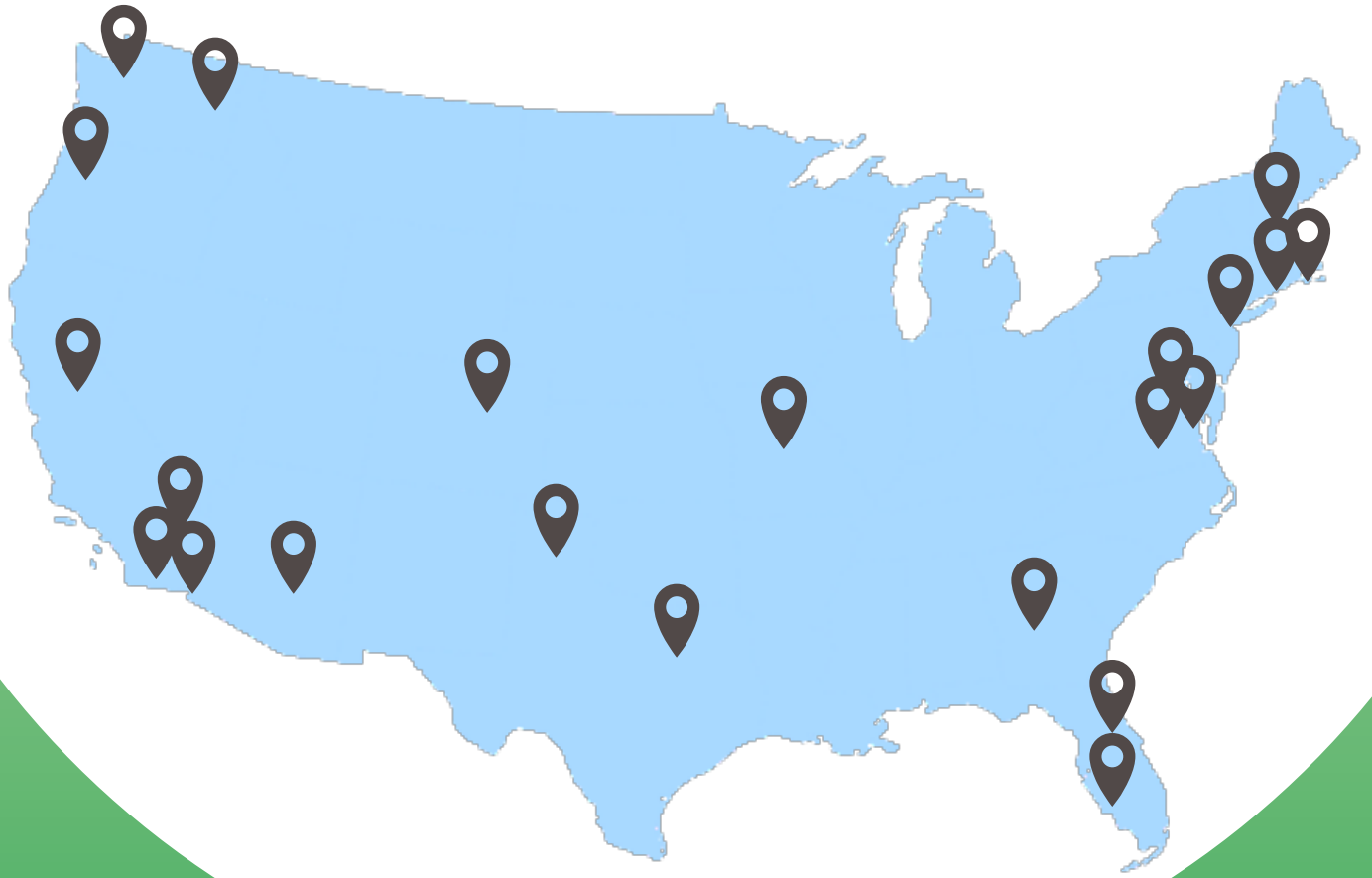
MicroC® is available packaged in quantities ranging from 5-gallon pails, 55-gallon drums, 265-gallon totes, all the way up to 1000-4500-gallon tanker-truck bulk deliveries.

On-Time Delivery

Customers can order MicroC® products with confidence that their shipment will arrive complete, on schedule, formulated as specified and priced as originally agreed to meet value expectations.

Quality Control

MicroC® products can be deployed with assurance of the top performance, exacting quality, and reliable consistency customers expect from EOSi.



Our Supply Advantage

With more than 20 facilities across North America, EOSi provides reliable supply of high performing products from our nationwide manufacturing, warehousing, and transportation operations to ensure your operations never miss a beat.

Cost Stablity

Our customers benefit from cost stability by leveraging our supply scale advantage. Our multi-sourcing strategies, closed-loop manufacturing, and multilayer quality control of raw materials from procurement through finished product helps insulate customers from fluctuating market-price volatility, and assures the best-value product available on the market today.

Supply & Delivery Reliability

Our more than 20 MicroC® manufacturing facilities provide supply redundancy, reducing the risk of supply and quality interruptions. Our dedicated fleet of railcars, bulk tank trucks, and LTL transportation equipment ensure customers receive the right product, right on time.

Quality Assurance Program

Our Quality Assurance Program begins with strict control of raw materials. MicroC® Premium Carbon Sources are produced to exacting quality control standards across all of our manufacturing facilities to reliably deliver high quality products to our customers with a consistency customers can trust.

Robust Network

Our widespread reach enables rapid deployment of new manufacturing locations dedicated to supplying growing local demand for MicroC® products and servicing Nitrack® equipment. Our more than 3.5 million gallons of dedicated bulk storage capacity across the United States serves our growing base of over 550 customers.

Get In Touch With Us

Scan to learn more about EOSi products and services and explore even more execulsive case studies, articles, and company updates!



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