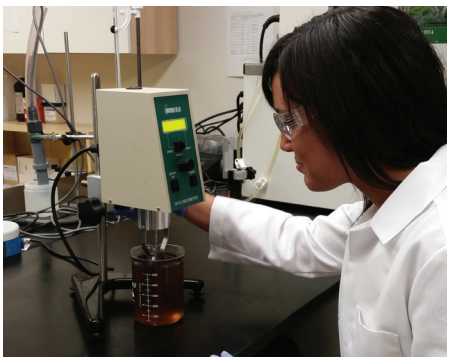
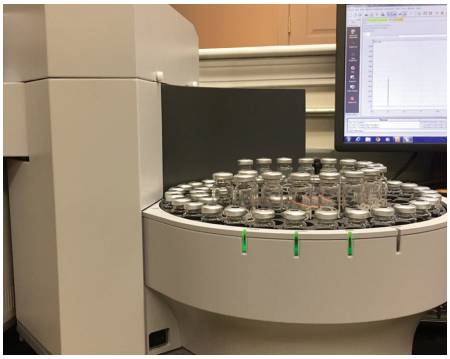
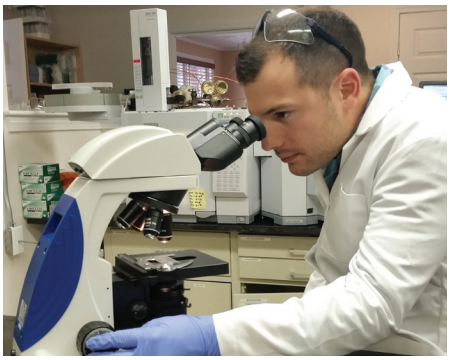
QUALITY CONTROL AND ASSURANCE

Consistently producing high quality products enables our customers to achieve their contaminant removal goals. We are committed to excellence in quality across our 20 nationwide manufacturing facilities.







TOP Larissa Brum, Quality Control Specialist performing a viscosity test

MIDDLE Gas Chromatograph

BOTTOM Anthony Giovannone, Engineering Manager looking at a mixed liquor sample

KEY ELEMENTS OF THE QA/QC PROGRAM

- Rigorous raw material supplier pre-qualification and management program
- Stringent QA/QC program for raw materials approval prior to MicroC™ manufacturing
- MicroC™ finished product is analyzed for conformance with specifications prior to release for customer shipment
- Finished product samples retained for at least six months
- 600 raw material samples from over 20 suppliers and 650 finished product samples from our 20 manufacturing facilities were analyzed in the last 12 months

ADDITIONAL LABORATORY CAPABILITIES

- NUR (Nitrate Utilization Rate)
- PUR (Phosphorus Uptake Rate)
- Respirometry
- GC/FID for alcohols and VFA quantification
- Near Infrared Spectroscopy
- Microscopy
- Solids Analysis TSS/VSS
- Wet Chemistry Analysis (NH3, NO3, NO2, TN, TP, PO4-P, Alkalinity DO)

RAW MATERIAL AND FINISHED PRODUCT ANALYTICAL CAPABILITIES

PARAMETER	METHOD
Appearance	ASTM E2680-09
Glycerin Content	AOCS Ea6-94 / ASTM D7637-10
Methanol Content	EN14110
Specific Gravity	ASTM D891-00
Viscosity	ASTM D 2196-10
pH	ASTM E-70
Flash Point	ASTM D-93
Fatty Acid Content	ASTM D5555-95
COD Concentration	ASTM D 1252
Ash Content	AOCS Ca11-55
Moisture	Karl Fischer

ENVIRONMENTAL OPERATING SOLUTIONS, INC. | Phone: (508) 743-8440 | info@microc.com | www.MicroC.com

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SUPPLY CHAIN MANAGEMENT

Our customers rely on an uninterrupted supply of consistent-quality products to maintain permit compliance. Our nationwide system is built exclusively to provide a consistent supply of high-quality carbon sources for biological contaminant removal at wastewater treatment facilities.

SUPPLY CHAIN FEATURES

Manufacturing and Logistics Network

- 20 MicroC™ manufacturing facilities nationwide
- Serving customers in 41 states, 6 Canadian provinces and several other countries
- 3.5 million gallons of dedicated bulk storage capacity across the United States
- Dedicated railcar fleet for efficient inbound raw materials transportation
- Extensive, multi-industry raw material supplier relationships

SUPPLY CHAIN ADVANTAGES

Eliminates Risk of Supply or Quality Interruption

- Our vast storage infrastructure protects against potential supply interruptions and reduces price volatility, particularly during turbulence in the agricultural raw materials markets
- Our extensive experience in successfully producing, packaging and delivering carbon sources ensures consistent order fulfillment
- Our nationwide system of 20 MicroC™ manufacturing facilities provides redundancy, reducing the risk of supply and quality interruptions

Provides Best Possible Value to Customers

- Aggregating our nationwide volume enables us to negotiate the lowest possible costs in our acquisition of raw materials
- Our extensive railcar fleet enables us to transport raw materials to manufacturing facilities in the most efficient manner

Consistent and Predictable Product Performance

- Our products are uniformly produced to exacting quality control standards across all of our nationwide manufacturing facilities
- Our large and diverse nationwide customer base enables us to partner with raw materials suppliers to create unique long-term, fixed price offerings for customers

SUPPLY CHAIN EXPERIENCE BY THE NUMBERS

10+
YEARS OF MicroC MANUFACTURING AND DISTRIBUTION

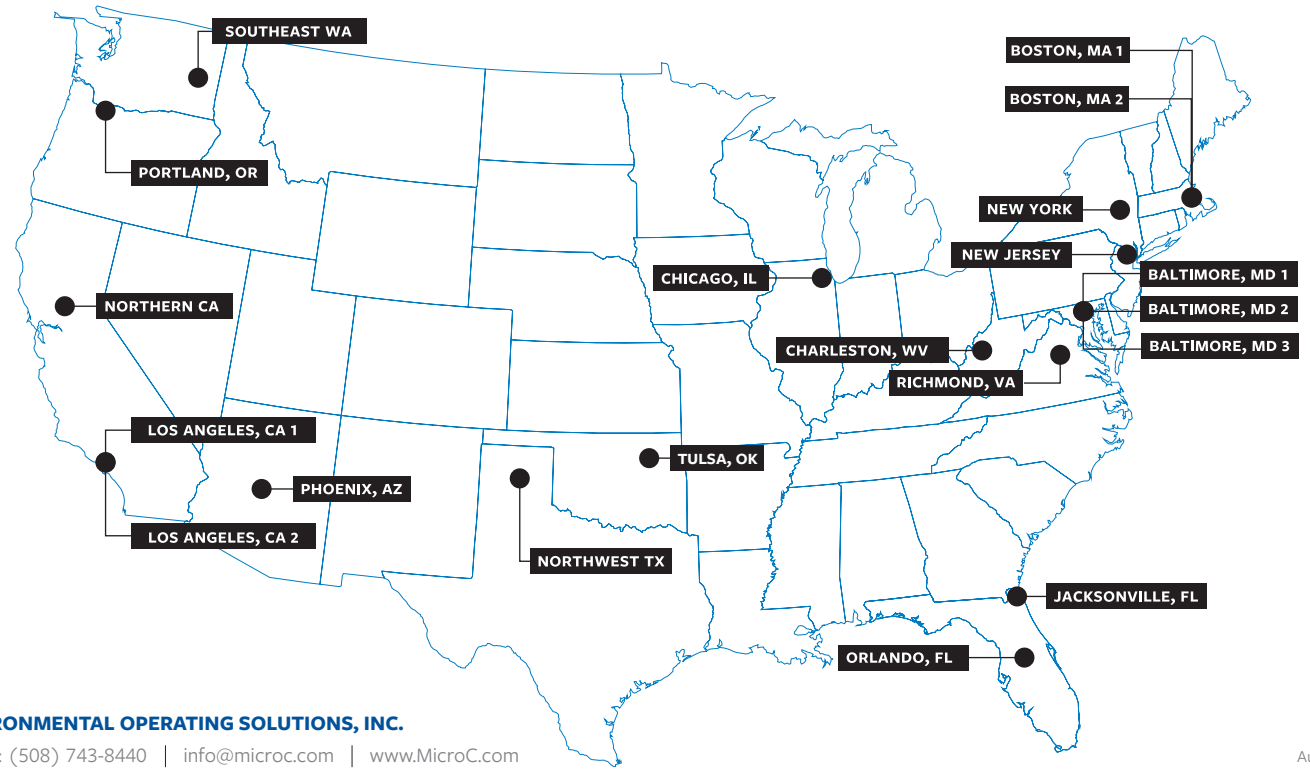
175+
MILLION POUNDS OF MicroC PRODUCTS DELIVERED

550+
CUSTOMERS THROUGHOUT NORTH AMERICA

10000+
CUSTOMER DELIVERIES COMPLETED

20000+
DRUMS AND TOTES PACKAGED AND DELIVERED

EOSI SUPPLY CHAIN NETWORK



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