



## **MICRON WASTE TECHNOLOGIES INC.**

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# **Micron Waste to Commercialize Organivore™ System for Food Waste**

## **Collaboration with BC Research Inc Expanded**

**Vancouver, British Columbia, April 8, 2019** – Micron Waste Technologies Inc. (“Micron” or the “Company”) (CSE: MWM, OTC: MICWF, Frankfurt: 7FM2), a leading developer of waste treatment systems for food and cannabis waste, announced today an expanded collaboration with BC Research Inc. (BCRI) to facilitate rapid commercialization of the Company’s second-generation food waste processing system. The new Organivore™ 2.0, designed for on-site waste processing for commercial producers of food waste, including supermarkets and food processors, producers and distributors, will combine new innovations developed for the Cannavore™ system, which Micron and BCRI purpose-built for the cannabis industry. Micron and BCRI will now rapidly install new technologies and applications into the Organivore™ 2.0, with market readiness anticipated in the second half of this year.

### **Organivore offers a clean tech solution to conventional waste treatments**

Roughly one-third of the food produced in the world for human consumption every year - approximately 1.3 billion tonnes - is lost or wasted. Food losses and waste amounts to roughly US\$680 billion in industrialized countries and US\$310 billion in developing countries ([FAO](#)).

Much of this food is diverted to landfill:

- Landfills are the second largest single human source of methane emissions, accounting for 16% of all methane sources ([UNECE](#))
- Methane is 34 times more damaging to the environment than CO<sup>2</sup> ([IPCC](#))

The Organivore™ reduces air and water pollution by:

- Utilizing an aerobic process with patented microbes and enzymes to break down food waste without producing methane
- Treating organic waste on-site into clean water and reusable biosolids, resulting in diversion of up to 95% of the waste sent to landfills
- Avoiding production of water-polluting leachate from waste
- Extracts, reclaims and purifies water from food waste

- Requires no trucking or incineration, which both produce greenhouse gas emissions

“The Organivore will target, in particular, the significant segment of the food industry that has challenges with compliant, sustainable and cost-effective management of food waste, including restaurants, hotels, cruise ships, food processors and hospitals,” said Alfred Wong, President & CEO of Micron. “We will initially prioritize the treatment of specialized waste, which has more contaminants. Specialized waste is more highly-regulated and offers high-margin opportunities for Micron. Conventional methods of treatment are under increasing government and regulatory scrutiny, putting pressure on waste producers to find cleaner and more efficient management strategies.”

The Organivore™ will utilize a unique blend of microbes and enzymes specifically designed for organic waste, including waste generated by the beer, wine and spirits industries, which is one of many sectors that has expressed interest in Micron’s patented bio-process for effluent treatment. The Organivore™, which extracts and purifies water from waste, will allow clients to reduce waste management costs incurred by: landfill tipping fees, hauling costs and water permits and/or fines for exceeding municipal effluent discharge standards.

“BC Research is excited to be a part of the team rolling out Micron’s technology to a large and growing market and are very impressed with the executive team’s forward vision,” said James Lockhart, BCRI Vice President and Chief Technology Officer. “Dr. Bob Bhushan has developed very timely innovations that promise to simultaneously reduce facility operating costs and greenhouse gas emissions associated with trucking and methane generation from landfilling.”

In the expanded collaboration agreement, as with the previous cannabis waste technologies collaboration agreement announced in February 2018, Micron retains all intellectual property rights to systems and processes developed. BCRI is based in Richmond, BC, near Micron’s new R&D facility in Delta, the Micron Waste Innovation Centre, which is slated to commence full operations before mid-Q2. The proximity of the companies’ engineering and wastewater teams facilitates synergies and increases efficiencies for rapid development of commercial products and streamlined systems testing.

“Our prototype Organivore™ has already been successfully tested under commercial conditions. The next step is to make the system turnkey for customers,” said Dr. Bhushan. “We have worked closely with BCRI on the Cannavore and know they can hit the ground running and compress our timelines to install next-gen bio-processing, upgraded computer systems, safety systems, customized housing, temperature controls and automation.”

In January 2019, Micron announced it was awarded a United States Patent and Trademark Office (USPTO) patent US10,144,044 on the Company’s proprietary bio-process and compositions for the treatment of waste effluent. The patent recognizes and safeguards the innovative process developed by Dr. Bhushan, whose research led to the development of “immobilization technology” to protect and enhance highly selective and effective microorganisms and enzymes. Dr. Bhushan’s advanced bio-process effectively allows effluent-degrading, GRAS<sup>1</sup>-certified

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<sup>1</sup> GRAS or Generally Regarded as Safe under sections 201(s) and 409 of the US Federal Food, Drug, and Cosmetic Act

organisms to biodegrade organics inside Micron's patented industrial-grade Cannavore™ and Organivore™ cannabis and food waste digester units. The immobilization process protects the live agents, which activate with increased potency and enhanced metabolic activity.

In July 2018, the Company announced it was awarded an *Industrial Design Certificate of Registration* from the Canadian Intellectual Property Office (CIPO), with US patent pending, for its commercial digester units, which employ a patented blend bio-agents and process. The units' innovative, functional design enhances food digestion efficiency by up to 40% while reducing the machine's footprint and digestion time. The technology was repurposed for use in the Cannavore, with the addition of proprietary conditioning agents to denature active pharmaceutical ingredients (APIs) in cannabis waste.

#### **About Micron Waste Technologies Inc.**

Micron is a leading green technology company that manufactures organic waste treatment and water reclamation systems. Micron focuses on developing solutions for organic waste and specialized waste streams including cannabis cultivation waste. Micron's patented aerobic bio-process reduces waste management costs, mitigates greenhouse gas emissions, and produces clean water that meets municipal effluent discharge standards. The Company has a strategic partnership with Aurora Cannabis Inc (TSX:ACB), one of the world's leading cannabis companies. In addition, Micron is partnered with BC Research Inc, part of the NORAM Group of Companies, with extensive experience in large scale private and municipal wastewater treatment systems. Micron is a public company with listings on the CSE: MWM, OTC: MICWF, and in Frankfurt: 7FM2. Please visit [www.micronwaste.com](http://www.micronwaste.com) for further information.

#### **About BC Research Inc.**

BC Research Inc. (BCRI), as part of the NORAM group of companies, has a global reputation for innovation and excellence in the supply of proprietary engineering and equipment packages to the chemical, pulp and paper, minerals processing and electrochemical sectors. The company's six specialized business groups, with a staff of over 200 professionals, have completed capital projects on five continents. The NORAM group of companies is recognized worldwide as a leader in the fields of nitration, sulfuric acid and electrochemistry. In addition to carrying out large assignments for major multi-national clients and municipalities, BCRI works with early-stage technology companies to provide engineering design and fabrication support, share experience in technology commercialization and grow with companies as a strategic stakeholder.

Alfred Wong  
President and CEO

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**FORWARD LOOKING STATEMENTS:**

*The forward-looking information contained in this press release is made as of the date of this press release and, except as required by applicable law, the Company does not undertake any obligation to update publicly or to revise any of the included forward-looking information, whether as a result of new information, future events or otherwise, except as may be required by law. By its very nature, such forward-looking information requires the Company to make assumptions that may not materialize or that may not be accurate. This forward-looking information is subject to known and unknown risks and uncertainties and other factors, which may cause actual results, levels of activity and achievements to differ materially from those expressed or implied by such information.*