Corporate Overview

McGill Environmental Systems is a compost manufacturer specializing in the management of biodegradable by-products and residuals from municipalities, industries, and agribusinesses.

It offers a full range of services, including transportation and mobile dewatering, and has been building and operating large regional facilities for more than 20 years. All are indoor operations and weather independent, providing intake services and compost sales year-round.

Now in its third decade, McGill has earned an unsurpassed record of sustained, reliable, cost-effective service to its customers. Currently, the company provides management services for biodegradables to about 235 municipalities and industrial operations in the Carolinas and Mid-Atlantic.

Indoor off-loading

Aeration system

Biodegradable Waste Recycling

McGill is a turnkey contractor, providing all services required to recycle biodegradable residuals and by-products that are currently land-applied, incinerated or landfilled, turning these "wastes" into quality soil products with true market value. Its Scope of Services includes:

- Assessments
- Mobile dewatering
- Transportation, including roll-off boxes and trailers
- Feedstock sourcing, compost manufacturing and compost sales
- Design-build-operate and technology licensing

Encapsulated bay processing

Feedstocks

McGill facilities accept and process non-hazardous residuals and by-products from municipal, industrial and agribusiness generators. It also accepts source-separated biodegradables such as cardboard and food waste from the commercial sector, as well as clean dimensional lumber and some types of gypsum board from construction.

This would include such materials as:

- Food waste (pre– and post-consumer)
- Biosolids (no liming required), DAF sludge, and other water treatment residuals; digestate from anaerobic digestion
- Yard waste, waxed and unwaxed cardboard and other woody materials
- Agricultural by-products

Biofilter

All feedstocks must be pre-approved to meet regulatory and internal acceptance protocols. McGill facilities are not open to the general public and offer no "drop-off" services, accepting only contracted waste streams.

Inside an encapsulated bay. Note translucent roof panels to improve visibility for workers.

Biodegradable materials from Zero Waste events (food, paper, cardboard, biodegradable plastics) are also accepted on a pre-approved basis.

Mobile Dewatering and Transportation Services

McGill operates its own transportation fleet, which includes tankers, roll-off containers, trailers and dewatering boxes.

Compost installation

Mobile dewatering services include clean-out and closure (as required), plus composting of the solid fraction.

Compost Manufacturing

Facility Design. All McGill facilities are designed in-house, reflecting ever-evolving design innovation. The company's modular design concept

offers economy and flexibility to its design-build customers, along with expertise that includes design approval and operations permitting in multiple jurisdictions.

Early McGill facilities feature open processing bays. The Glenville facility, opened in 2008, pioneered the company's encapsulated bay design that enables total control of the processing environment and tight environmental security. This, in turn, allows the company to site facilities closer to population areas where feedstock generators and high-value compost markets are located.

Process Description. Composting relies on naturally-occurring populations of specific microorganisms to break down raw materials at the molecular level. McGill's technology, based on the static pile, forced aeration composting method, creates and maintains a process environment that encourages the proliferation of the specific microbial populations responsible for biodegradation.

A computer monitors the process and controls fans that move air through the composting mass, removing excess heat and maintaining adequate oxygen supplies for the microbes. Process air is passed through a biofilter to remove odors and particulates.

The McGill process meets or exceeds U.S. EPA 503 requirements for designation as a Class A Exceptional Quality compost, suitable for unrestricted end use.

Compost Products. McGill's line of branded bulk products includes:

- *McGill AG*
- *McGill ErosionControl*
- *McGill SoilBuilder*
- *McGill SportsTurf*

Can we build one for you?

Each has been developed to meet the needs of specific professional markets. The company has over 50 authorized resellers in the Carolinas and mid-Atlantic states, including landscape supply yards, landscape contractors and erosion control companies.

Design-Build-Operate and Technology Licensing

McGill offers a variety of design and licensing options to meet customer needs, including design-build-operate contracts for customer-owned facilities and technology licensing. Our packages are customized to fit your budget with contracts structured to meet your requirements. Examples include:

- We design-build-finance-own-operate on a site you provide; we get an appropriate site in less time and with lower costs; you get a "free," professionally-managed composting facility to serve your region.
- We design-license-operate, but you finance, build and own; ideal for industrial generators looking for a cost-effective recycling option without having to send their waste streams off-site for biodegradation and processing.
- We design and license, but you finance-build-own-operate; a good choice for those wanting to add biological drying to existing sludge management or incineration systems and those needing a beneficial end use for anaerobic digestion.

We can also retrofit existing facilities, modify biosolids composting operations to process food and yard waste, etc.

McGill facilities are scalable, lean and efficient, based on more than 20 years of hands-on experience in building and operating industrial -scale, biological treatment facilities, including:

- BioEnergy systems based on anaerobic digestion (AD) and composting in one efficient design or composting add-ons for existing AD facilities.
- Composting, the most efficient, cost-effective and environmentally-beneficial technology for managing and recycling non-hazardous, biodegradables.

Other services include sales and marketing related to raw materials sourcing and compost sales, education, training and troubleshooting.

McGILL
The compost people®

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