



# Cleanit Greenit Compost System

What is it and how can it work for you?

## Environmental Strategies for Business Success...



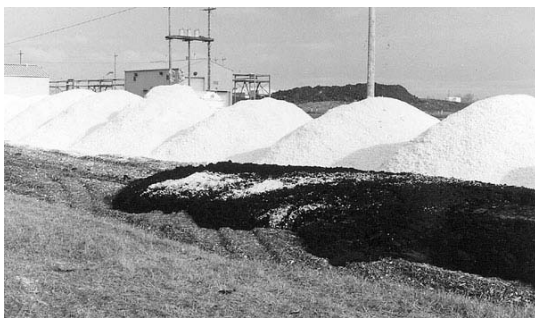
### Cleanit Greenit Composting is...

A managed process that controls biological decomposition. It transforms biodegradable material into a humus-like substance called compost. The composting process uses various natural microorganisms, such as bacteria and fungi, to break down the complex organic compounds into simpler and more stable substances. The key to the operation is to keep the microbiological process active by managing aeration, moisture content and excess heat.

Composting is an alternative to many of the current practices for the disposal of organic waste, such as incineration, landfarming and landfilling. Current practices are often not environmentally responsible or economical.

### The World and Compost

In the world today, over 24 billion tonnes of agricultural topsoil is being swept away each year. This is equivalent to about 7% of the globe's productive land disappearing every decade. Composting holds real potential for adding nutrients and value back to the land.



KC Environmental Group Ltd. Industrial Composting site near Edmonton.

### Benefits

The benefits of operating a composting system extend far beyond providing a cost effective disposal system for your company. The quality finished compost produced is a slow release, nutrient rich material, and when added to soil will improve soil structure, texture, aeration, and water holding capabilities. For example clay soils are lightened; and sandy soils retain water better when mixed with compost. Mixing the compost with soil will control erosion, increase soil fertility, maintain proper pH balance, and promote healthy root development in plants.

Compost can control soil-borne diseases and insects. The naturally occurring thermophilic temperatures that occur during composting destroy pathogens and weed seeds (just as in milk pasteurization). Also, during the composting process the microorganisms convert nitrogen into a less volatile form allowing for longer material storage times and the ability to use the compost at your convenience.

Composting can be performed on-site thereby eliminating the cost and environmental impacts of transportation. Other potential benefits that make composting attractive include cost savings for land reclamation and reduced impacts on air, land and water. Initiating a composting system to deal with waste material will distinguish your organization as a leader in promoting waste disposal solutions that benefit both business and the environment.

### What Types of Materials are Compostable?

- Industrial Sludges
- Drilling Muds and Cuttings Produced Sands
- Hydrocarbon Contaminated Soils
- Food Processing Residuals
- Oilfield Waste
- Manure and Agricultural Residuals
- Forestry and Forest Product Residuals
- Biosolids (Sewage Sludge)
- Leaves, Brush, and Yard Trimmings
- Mixed Municipal Waste
- Source Separated Compostable Material

# Environmental Strategies for Business Success...



## KC and Composting

KC Environmental Group Ltd. is an Edmonton, Alberta based Environmental Engineering firm with design experience in Environmental Engineering, Composting Systems, Waste Minimization, Soil Remediation, Biofiltration and trouble shooting. KC's composting team specializes in practical and cost effective compost systems that are environmentally sustainable.

### A Sample of KC Project Achievements Include:

- Design and project management of an industrial co-composter for Dow Chemical.
- Design and implementation of a compost project for Eagle River Power and Millar Western.
- Developed a compost system for the City of St. Albert.
- Conducted a review of the compost system for the City of Leduc.
- Members of the design and build team for the TransAlta Enterprises Edmonton Co-compost Facility.
- Assisted the Town of Morinville in initiating residential and yard waste composting.
- Provide on going public education to promote composting for industry, government, institutions and non-profit organizations.



Steam generated from a compost pile during turning.

## Is My Waste Compostable?

KC Environmental Group Ltd. is equipped with a full in-house compost laboratory to conduct analyses and mini compost trials to determine if your material is suitable to the Cleanit Greenit Compost System. We invite you to bring your waste to us. Contact us for details. Challenge us!

## Value Added Resources, Uses for Finished Compost

- Land Reclamation
- Landscaping
- Farming
- Gardening
- Erosion Control
- Turf Topdressing
- Bioremediation

## Our Process

KC Environmental's Cleanit Greenit Compost System incorporates a six-step composting process that can be designed specifically to meet your waste handling needs. This process utilizes simple, proven technology provided at a competitive cost, and suitable to your waste disposal requirements.

The Cleanit Greenit Compost System is designed specifically to function in Canadian winters. There are two options for compost site location. Material can be composted on your site or brought to one of the KC sites.

## Six-Step Process

1. Initial Testing of Compost Materials
  2. Recipe Formulation and Compost Trials
  3. Site Preparation
  4. Site Process Operations
  5. Maturation Process
  6. Final Reporting and Maturity Testing
- Call us for specific information regarding the Cleanit Greenit Compost System.
- KC Cleanit Greenit site is scheduled to open in July 1998. Operations on the Client's site can begin immediately.

► For a complete project listing, or a company brochure, please contact us:



**SOLUTIONS FOR  
BUSINESS AND ENVIRONMENT**

**KC ENVIRONMENTAL GROUP LTD.**

**Fact Sheet**

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