

contained

The Advanced **New Earth Solutions** Waste Treatment and Resource Recovery System

The full enclosure of waste during treatment is a fundamental design principle of the New Earth Solutions system. From delivery, through to the production of finished products, all elements of the process are **contained**. The unique design dynamics of our facilities ensure full capture and containment of processed emissions.

The New Earth process was developed specifically to address Environment Agency guidance on risk assessing emissions

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The potential for the generation of offensive odours is avoided by use of an automated process management system. This ensures the composting process is continually optimised and that the favourable aerobic conditions required for effective treatment are maintained at all times. Aeration is delivered by radial fans connected to sub-surface ducts.

Fresh air is drawn through the biodegradable waste into these ducts, allowing used air to be captured and treated prior to its release. Air contained within the ducts is pumped to an on-site treatment plant that effectively neutralises the presence of odours, bio aerosols, particulates and ammonia.

The full enclosure of the treatment process also ensures that minimal quantities of leachate are produced. Any leachate that is produced is drained via the sub-surface aeration ducts and collected in dedicated knock out pots. From these it may be either re-circulated within the process or safely discharged to foul sewer.

Independent consultants have assessed the efficiency of this emissions treatment system and stated that: "The New earth Solutions emissions treatment technology demonstrates a 98% reduction in the odours normally associated with composting operations." A report of the consultant's findings is available on request.

Environmental control

*The composting process is continually optimised,
ensuring that the favourable aerobic conditions
required for effective treatment are
maintained at all times*

- Fully Enclosed Waste Treatment
- Automated Aeration System
- Emissions Control and Treatment
- Leachate Management



Full enclosure means that biodegradable waste products satisfy Animal By-Product regulations

Automated aeration systems ensure the manufacture of a stable, consistent product

Leachate is kept to a minimum, but where it is produced, it is easily and effectively managed



NEW EARTH SOLUTIONS GROUP LTD
 Key House
 Ebblake Industrial Estate
 Verwood
 Dorset
 BH31 6AT

Telephone: +44 (0)1202 812300
 Fax: +44 (0)1202 829283
www.newearthsolutions.co.uk