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WOODHORN GROUP CASE STUDY

The Woodhorn Group operates a licensed green waste composting facility in West Sussex. The facility processes in excess of 20,000 tonnes of green waste annually, turning this into a range of peat free compost and soil conditioning products.

Eighteen months ago Woodhorn approached GOC Technologies with a view to reducing odour levels on the site. At that time they were composting in windrows and turning each row approximately 7-8 times prior to screening.

The shredded green waste was treated with BAT 506 through a pump and nozzle system which applied the diluted concentrate to the feedstock as it exited the shredder conveyer belt. A dose rate of 65 millilitres of 506 concentrate to one tonne of feedstock was used. The shredded feedstock was then turned once with a side turner to ensure good dispersion and distribution of the product. The shredded feedstock was then placed in a trapezoid block and allowed to remain undisturbed for 6 to 8 weeks so long as temperatures were sufficient, with 6 weeks as an average. Typically, the operator determines the correct time for turning by noting a steady decline in temperatures throughout the mass for a minimum of 3 consecutive days. After this turning, the material is allowed to sit another 2 to 4 weeks determined again by temperature. The material was then turned again if necessary or removed for screening.

Woodhorn has experienced a reduction in odour complaints in excess of 90%. The implementation of the 506 system has resulted in major decreases in odour, VOC and CO2 emissions, and fuel consumption. Decomposition rates have improved noticeably, allowing a 9 to 12 week composting process (depending on time of year) with 3 to 6 months of maturation. The finished product maintains an organic, rich "dirt" smell. More efficient use of physical space and elimination of odour problems have allowed increases in incoming tonnage. (The facility now accepts 25,000 tonnes annually up from 17,000 tonnes eighteen months ago.) Better finished, more consistent compost and more volume have allowed development of an active market for the final product.

Woodhorn also experienced greater production through better decomposition, less reject and oversize with the final product continuing to meet PAS 100 specifications. Less turning of the windrows also resulted in reductions in operating costs in terms of reduced fuel consumption and wear and tear on the equipment.