

**CASE STUDY:**  
MARKET RASEN: ANAEROBIC  
DIGESTION - TREATMENT LAGOON  
LINCOLNSHIRE, UK



**TITANTECH®**

# Providing the optimal solution for containment needs

Anaerobic digestion is a waste management system that has a natural solution to an age-old problem. In essence, Anaerobic Digestion utilises biochemistry to combat the accumulation of waste production. The process has several phases that encompass the use of microorganisms to breakdown biodegradable materials into usable by-products, as well as reducing the overall amount of waste. The process can be applied to commercial, industrial and domestic environments as a practical application for dealing with waste material. The process is clean, efficient and useful.

## JUTAMAT

## JUNIFOL HDPE

**Material**  
JUTAMAT 5000 (GCL)

**Volume:** 20,000 m<sup>2</sup>

**Material**  
JUNIFOL HDPE  
2.0mm & JUNIFOL  
HDPE 1.0 mm

**Volume:** 40,000 m<sup>2</sup>

**Date:** 2016

**Specialist Installer**  
Enviroseal Lining  
Solutions

**Verification and sign-off**  
JUTA UK

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JUTA UK commented:

“We are always striving to adapt to project demands, and stay at the forefront of product development by staying intimately involved with the various standards authorities”

**The treatment lagoon at Market Rasen is formed by the creation of an earthworks bunded area, which is then lined with JUTAMAT 5000 (GCL) as a secondary containment liner; overlain by JUNIFOL HDPE 2.0 mm geomembrane as the primary containment liner.**

**Once the lagoon is formed and lined, the provision of a JUNIFOL HDPE 1.0 mm floating geomembrane cover to contain all odours is implemented.**

It is, therefore, possible to inflate the floating cover, providing a simple means of methane storage. Currently, lagoons of this type maybe constructed more for their methane generation than in the past.

As the Environment Agency takes more interest in this technology, the level of regulation and degree of quality assurance increases. JUTA UK is becoming the supplier of choice into these market sectors given our wealth of experience and ability to provide the optimal solution for containment needs. JUTA UK is the leading supplier of Environmental Protection and Containment Engineering products into the UK and ROI.

Our customers always see the added value of JUTA UK products; from the comprehensive Technical support at desk study right through to site implementation, to the high quality of materials, manufactured to meet the specific requirements of the demanding construction environment.

