ACCEL-O-FAC®
BY GURNEY ENVIRONMENTAL

LONG-TERM
CASE STUDY

TOTAL ODOUR CONTROL ★★★★★
For 15+ years, The Holkham Accel-o-Fac® wwtp has operated odour-free in close proximity to neighboring population.

TOTAL SLUDGE DIGESTION ★★★★★
The Accel-o-Fac® primary cell has operated for 15+ years with zero sludge removal, regulation or handling, thus lowering O&M.

IRRIGATION QUALITY ★★★★★
Highly stabilised effluent from the Holkham Accel-o-Fac® wwtp has proven ideal for nearby irrigation needs during dry spells.

HANDLES **14x** DWF

ZERO TO LOW ENERGY

Holkham Village, Estate and local Inn have enjoyed an amazingly simplified WwTP.

16+ Years Adjacent to Housing With No Odour, No Noise, No Sludge Handling and Little Energy Costs.

Selecting The Best "Total Life" Options

The Accel-o-Fac® wastewater treatment plant serves Holkham Estate, the Victoria Inn and the village at Holkham in Norfolk and has been treating sewage since the spring of 2006 with *almost no significant ongoing operating costs!*

The Holkham Estate, owned by the Earl of Leicester, is very popular with tourists visiting this part of the country. Previously, the village had been served by septic tanks requiring regular emptying. The Estate had been presented a choice of either sending the

Septic Reception Station

Those homes or businesses still on septic tanks have their solids hauled to the Accel-o-Fac® WwTP for disposal.

sewage to the nearby water company's treatment works via pipeline, remain on septic tanks or treat their own wastewater. The appeal of the unique, green Gurney Environmental Accel-o-Fac® solution was low energy, no sludge or odour, and effluent water of a quality appropriate for either discharge or irrigation reuse on the Estate.

Simple, Low Maintenance Operation

After careful consideration of options, the Estate elected to use the Accel-o-Fac® windpowered system from Gurney Environmental to keep ongoing operating and total lifetime expenses (TOTEX) at a minimum. The plant also includes a simple Septic Reception Station to accommodate septic tanks from the Estate. All septage and solids are transferred to the new Accel-o-Fac® primary cell for treatment and digestion of the sludge. The system is simple, odour free and inexpensive to operate. Truly sustainable!

One of the key benefits of the system for Holkham was the need for very little operator attention. There has been almost nothing for an operator to do at the plant this last 16+ years short of mowing the grass in the summer. Equipment maintenance includes inspections every 3-4 months. Not much else is required, making the operator's job truly part time!

Stephen Twyford from the Estate's Land & Property Department commented:

"The installation of the Accel-o-Fac® sewage treatment system at Holkham in 2006 enforced our ethos of becoming an environmentally sustainable Estate and Community.

"The system continues to provide a low cost and low maintenance solution to wastewater treatment for Holkham Village with additional capacity for any needed future increase. The fact that there is no associated sewage odours meant that the system could be located relatively near to the village, and, after 15 years of use, no sludge removal has been needed."

Water Re-use Possibilities. Recycling.

There was another advantage to this option. By providing a superior, already disinfected, more stabilised effluent, the Accel-o-Fac® system provides irrigation quality water at an extraordinarily low cost, especially desirable for dryer periods.

The Holkham system underscores the sustainability of Gurney Environmental municipal and industrial wastewater treatment systems for the UK and other markets. Elimination of sludge lorries, zero-to-low energy usage, little manpower required, few mechanicals involved, low carbon footprint — all spells a time-tested, environmentally conscious, Nature Based Solution and truly sustainable method for treatment of wastewater. ⏭

Holkham Hall & Estate in Norfolk, UK