

## Construction projects, waste management and recycling

# Design and build Veolia, at Maresfield

**In 2008 Colas carried out a design and build contract for Veolia Environmental Services Limited, to construct a new waste transfer station and adjacent community waste recycling centre at Maresfield in East Sussex. Value circa £3.9m.**

**Extensive off site drainage works were required to comply with the requirements of the Environment Agency and Southern Water.**



### Application Details

The main waste transfer building incorporated 7m high in-situ reinforced concrete push walls to retain stored waste. Three weighbridges were installed, two externally and one internally. The project also required construction of split level access to separate operational areas from public household waste recycling. Specific designated areas were provided for all different types of waste streams and appropriate drainage provision made.

The project also required construction of a number of ancillary buildings - an administration and amenity block, a weighbridge office and a store, all to a high level of finish required by the planning authority. The amenity block incorporated a plant room with new three phase electric supply.

Colas teams carried out the external lighting installation with

in-house teams who also carry out capital works and maintenance for East Sussex County Council and Brighton & Hove City Council. The galvanised steel gantries, which provide raised level access for the public to place recyclates in segregated bins, were all manufactured in-house by our own steel fabricators and installed and commissioned by Colas teams.

Off site drainage involved large bore pipes and also included ponds for attenuation. The work was carried out to the satisfaction of the Environment Agency and Southern Water. Southern Water also required regular access through the site as their own waste water facility is situated to the rear of the Waste Transfer Station.



East Sussex Fire & Rescue Service also required 24hr access to their adjacent training facility. From foundation level in the sandstone bedrock, the retaining wall structures were 7m high from finished floor level and with an internal weighbridge set some 2m lower at finished level. The tight boundary of the site meant that careful planning of material movements was crucial as substantial quantities were required as fill on site. The floor of the Waste Transfer Station was cast in a single pour using epoxy

modified concrete and steel fibre reinforcement.

Protection from shovel loader impact was essential and heavy duty steel plates were cast in place to protect the bottom of the walls. The floor finishes above the base of the plate making it impossible to rip the plate from the wall accidentally. At the top of walls spill plates prevent accidental overtopping of the wall through surcharge of waste. Mist air systems operate throughout and full fire protection systems are in place.

The Maresfield Waste Transfer Station (WTS) project is a key element in the strategic plan for East Sussex and Brighton & Hove waste management. It has been procured through a PFI contract with Veolia. Strict planning constraints were adhered to during design and construction and environmental mitigation measures such as acoustic fencing and landscaped earth bunds were incorporated. Regular consultations were held with neighbouring stakeholders.



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