

Case study

Redevelopment of Waste Recycling Centre

Redevelopment of a household waste recycling centre at Holford Drive, Perry Barr, Birmingham. The site area is approximately 3.12 hectares.

The WTS building structure comprises a double span portal with hit and missed internal columns along the valley. The internal slabs are ground bearing of 225mm thick reinforced with mesh and steel fibres. The two-storey office building is of modular construction. The foundations of the buildings are pad footings. The challenges faced by the design involves the sequencing of the build as the site had to remain operational during the redevelopment. It required careful planning of the new drainage including the attenuation and full retention interceptor all of which had to take into consideration of the existing live drains.

The redevelopment works include the demolition of the former incinerator building, transfer station, wash bay, fuel station, office and amenity blocks, site strip of existing hardstanding and redundant services. The new construction comprises a new Waste Transfer Station, drive through loading bays, storage bays, vehicle maintenance workshop, split level household waste recovery centre, a two storeys office/welfare facility, weighbridge kiosk and cabins.



Location:
Birmingham



Client:
Veolia/Tolent
Construction



Architect:
PCP Architects



Value:
£12m



Civil Engineering Structural Engineering

Engineer/
Manage/
Deliver/