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## Biffa – IVC, Ufton, Warwickshire

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Following on from the Etwall project, Biffa successfully bid for green waste composting contracts in Warwickshire. Biffa were keen to assemble the same team to build the new facility and Melia Smith & Jones were

appointed to design the project under a NEC3 Opt A Contract with Design by the contractor. The work scope included site development roads, maturation slabs, new entrances, weighbridge and offices as well as the new IVC and process/reception building.

Melia Smith & Jones subsequently went on to perform the lead designer role for the Civil Contractor, G F Tomlinson & Sons Ltd, and carried out the detailed design work through to contract completion.



Melia Smith & Jones' design work included:

- Site wide layouts and external works plans
- Building general arrangements
- Foundation design
- Design and detailing of all concrete works incl. IVC tunnels
- Drainage (surface, dirty water and leachate)
- Co-ordination with the building services designers
- Co-ordination/liaison with the process designers

Melia Smith & Jones developed an innovative tunnel roof construction detail in the IVCs combining pre-cast roofing elements and in-situ concrete. This resulted in a cost effective solution capable of handling short term (3 to 5 day) cycles across tunnels running from ambient to 80°C temperatures with relative humidity of 100% combined with a chemically aggressive environment.

