



Quadrant Centre Bus Station *Swansea*

Refurbishment of a 30 year old bus station into a modern and vibrant Public transport interchange for a renewed City Centre.

The renewal of the Quadrant Centre Bus Station was a flagship project of the Swansea City Centre Framework – an aspirational refurbishment scheme reflecting the heart of a growing and evolving City. Originally constructed in the 1980's, the 'Quadrant' was in urgent need of redevelopment to provide a modern bus interchange and a hub for public transport for Swansea and outlying districts, as well as providing facilities for national coach operators.

Wilmott Dixon, appointed as lead contractors by The City and County of Swansea, had responsibility for the disposal of large quantities of demolition and excavation materials and the importation of virgin quarried aggregates.

Working with sub-contractors, Dawnus Construction – who led on infrastructure and concrete works, the teams recognised the significant levels of construction and demolition waste that would result from the groundworks phase of the project.

PROJECT DETAILS

The renewal of the Quadrant Centre Bus Station in Swansea.

Best practice themes:

- Waste minimisation and use of recycled aggregates in construction projects



PROJECT TEAM

Client: **Wilmott Dixon** Principal Contractor
Dawnus Groundworks Contractor
Derwen Group Recycled Aggregates

KEY CONTACTS

Paul Jennings, CEWales
paul.jennings@cewales.org.uk





Dawnus contacted Constructing Excellence in Wales who investigated various options to reduce the environmental impact of the project and found a sustainable, local solution introducing Derwen Group - a supplier of high quality, recycled aggregate materials.

CEW worked closely with the project partners and Derwen Group to ensure that over 25,000 tonnes of material removed from the project was processed into quality, reusable material.

The inert C&D materials were processed through Derwen's innovative aggregate washing system produces high quality sustainable aggregates meeting both EU and British standards.



Derwen Group recovered more than 20,000 tonnes of inert materials and supplied over 5,500 tonnes of material recycled to the Quadrant site for use as general fill and subbase with the remaining 15,500 tonnes sold by Derwen Group for other construction projects. In addition, 5,000 tonnes of tarmac and concrete material was reprocessed and reused in situ.

Paul Jennings, Construction Waste Programme Director at Constructing Excellence in Wales was delighted with the outcome:

“The traditional practice of landfilling inert materials which have the potential to be recycled into quality aggregates is no longer sustainable.”

“The Swansea Quadrant project is a perfect example of what can be achieved with an innovative and ambitious aspiration to reduce, reuse and recycle.”

The Swansea Quadrant Interchange project won the Waste Minimisation Award at the Constructing Excellence Wales Awards 2010 and has received widespread industry acclaim for the waste solutions and use of recycled aggregate materials.