

CASE STUDY: **Extreme Wet Sites 2**

Project: The Valley of Stone

Construction of porous, flexible surfacing bridleway
in extreme wet environments

Client: Lancashire County Council

Procurement: Open Tender

Location: Bacup, Lancashire

Date undertaken: 2017

PROJECT OUTLINE:

This project required the construction of a shared usage bridleway using our 'nu-flex' recycled, porous surfacing process including the provision of all associated civils work. Our engineering team developed a specific design solution to deal with the unique circumstances on this site.

This section of a much larger project focused on a low point on the site which was compounded at this location by land run-off from a high adjacent embankment. Our design included extensive excavation and the installation of a new and robust drainage system.

In completing this project our talented technical and operational teams excelled in providing the client with an outstanding finished product.



Nu-phalt Contracting successfully construct a shared usage bridleway whilst dealing with extreme land water run-off.

The transformation has been remarkable to the delight of residents and user groups.

PROJECT CHALLENGES:

Environmental – Management against the spread of invasive plant species. Working in extreme conditions.

Ecological – The bridleway was known to be a home for bats, nesting birds, amphibians and other animals. Our staff worked in co-ordination with the client's ecologist.

Engineering – Severe flooding from moorlands and compounded by adjacent water courses. Required specific engineering design solutions to ensure the route remains operational in extreme weather conditions.

Operational – Challenging environmental and topographical constraints considered and appropriate solutions agreed and implemented. Access was restricted and operations could only be fed from one end at a time.



The Client:

'Working with Nuphalt has been a great experience from our point of view. The finished product is excellent with the nu-flex material attracting positive comments from a wide range of users. The sites we have had Nuphalt working on this year have been very challenging from a drainage and access point of view, we have also had some appalling weather too! Nuphalt have handled all of this in a very professional and competent manner. All of their staff had a very 'can do' attitude and unexpected items were tackled with a minimum of fuss or disruption.'

Tony Lund, Senior Environmental Project Officer

PROJECT OUTCOMES:

The finished project has attracted large numbers of positive comments from professional engineers to many user groups including; SusTrans, visiting clients, British Horse Society, ramblers, cyclists and other general users.



BENEFITS:

The asset manager and end-users alike have welcomed a number of benefits including;

- Well drained surface due to the porosity of the material
- Easy to repair
- Visually attractive compared to traditional surfacing
- Significant reduction in the effects of ice and snow
- Surface is excellent for horse riders and cyclists
- Innovative recycled material

Duration on site – 10 days

Environmental benefits – 2,160 recycled tyres used

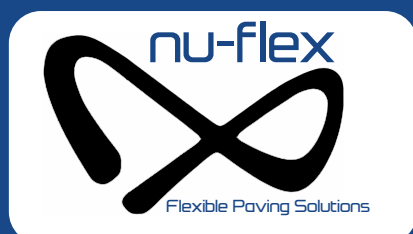
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