

## CENTRAL - 2009/10 – BROOM FLOODBANK CANDIDATE PROJECT

1) Likelihood of there being a problem in undertaking the work; 2) Risk associated with failing to carry out the project

Brief Description of Project	Area	Local Authority	Estimated Cost £k	Estimated Benefit Cost Ratio	Number of Residential Properties Protected	Environmental Impact	Seeking Contribution From	Delivery Risk
<b>Broom:</b> To construct a 350m earth embankment to protect 35 houses and a Severn Trent pumping station from flooding up to a 1 in 200 year event. In partnership with Severn Trent Water and possibly Stratford District Council.	Central	Stratford District Council	510	1.7	35	Low	Stratford District Council Severn Trent Water	1) Low 2) Med

Broom is a small village in Warwickshire, 5 km south of Alcester. It lies on the left bank of the River Arrow in the district of Stratford Upon Avon. There are no flood walls or embankments at this location but the houses are built up on an embankment which protects them from the 4% probability flood. This level was 600mm above the previous highest recorded flood which was written into the planning conditions and adhered to by the developers.

Broom has been affected by flooding on numerous occasions. The most recent flood occurred on 20<sup>th</sup> July 2007, the river peaked nearly 3m above normal summer levels. It has been estimated that this flood had a 0.5% chance of occurring in any given year.

A pre-feasibility study was undertaken following this flood. From this it was concluded that the preferred option is to construct a 350m long earth embankment which will protect the village to the 0.5% probability flood.

A partnership has been set up with Severn Trent Water to improve their pumping station at the same time the embankment will be constructed. This will improve surface water drainage and increase capacity to prevent any water ponding behind the new defences.

We are also working in partnership with Bidford Parish Council as the Embankment is predominantly on their land, they do not want any compensation for works on their land which will be a saving of approximately £40k.

The construction cost of £400k could be reduced as there may be an opportunity for collaboration with a PLC operating locally that could include:

- reduction in the estimated cost of the proposed embankment
- availability of natural resources locally as the material for the embankment (clay)
- the availability of plant locally to be applied to the work of building the embankment



Broom.

Location of new Embankment in Broom.

1 Millers Bank, internal floodwater reaching nearly 665mm.

