

DERBYSHIRE COUNTY COUNCIL

CABINET MEETING

12 November 2013

Report of the Acting Strategic Director – Environmental Services

**ADDITION TO THE 2013/14 CAPITAL PROGRAMME –  
DERWENT GROVE FLOOD DEFENCE SCHEME – DESIGN AND  
PHASE ONE WORKS (JOBS, ECONOMY AND TRANSPORT)**

(1) **Purpose of the Report** To seek Cabinet approval to add the construction of Phase One flood defences and the design of a long term mitigation solution at Derwent Grove, Alfreton to the Capital Programme 2013/14.

(2) **Information and Analysis** Properties at Derwent Grove and Amber Grove, Alfreton have suffered from several incidents of internal flooding over the last 15 years, causing distress, loss and the fear of repeat occurrences in heavy rain. The County Flood Risk Management Team commissioned consultants to undertake a flood study to assess the current and future flood risk for the community of Derwent Grove and Amber Grove. The outcomes for the study were to look at an informed staged approach of mitigating flood risk. Various options were therefore requested and produced.

Having appraised the study, the intention is to now progress the following:

- Phase One - The introduction of a small flood bund alongside Derwent Grove and Amber Grove, with the aim of preventing flows from the Oakerthorpe Brook overtopping the bank onto the adjacent footpath and so intercepting the potential flow route towards nearby properties.
- To commission further detailed design work to develop upstream attenuation.
- Phase Two - Create an attenuation pond upstream of the housing, in the area currently designated as playing fields, likely to achieve a minimum of 40 years duration of benefit before it would need a significant amount of further expenditure, i.e. dredging. This preferred scenario also includes reducing the number of bars on the trash screen before it flows beneath the A61.

The resulting savings from these activities are calculated to be approximately £31,578 per property, based on the reduced damage costs for a 100 year flood frequency. The scheme would look to defend 17 properties with a scheme benefit value of £536,826 in saved damage costs for the affected

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community. Savings to the County Council would also be derived from reduced maintenance of the trash screen beneath the A61, which is attended once a week to reduce the flood risk to the properties and to the highways infrastructure in the immediate vicinity of the culvert. By reducing the frequency of cyclic maintenance the Council would aim to save £5,000 per annum.

The detailed design of the attenuation pond will require £25,000 of investment, as will the installation of a flood bund, equating to a total of £50,000.

Other funding streams are being bid for the Phase Two works at Derwent Grove through the Regional Flood and Coastal Committee. In addition, partnership funding is being investigated and the following organisations, which have influence on either the flooding problem or the outcomes of the mitigation work, are being approached; Severn Trent Water, The Highway Agency, Thornton's and other industrial companies on the nearby trading estate, Alfreton Town Council and Amber Valley Borough Council.

(3) **Financial Considerations** It is anticipated that the costs of the Phase One Works at Derwent Grove will be £25,000 and the design of a long-term mitigation solution will be a further £25,000.

The total £50,000 of costs will be met from the Flood Risk Management Revenue Budget. This scheme will be added to the 2013/14 Capital Programme.

In preparing this report the relevance of the following factors has been considered: legal, prevention of crime and disorder, equality and diversity, human resources, environmental, health, property and transport considerations.

(4) **Key Decision** No.

(5) **Call-In** Is it required that call-in be waived in respect of the decisions proposed in the report? No.

(6) **Background Papers** None. Officer contact details – Steve Mead, extension 38577.

(7) **OFFICER'S RECOMMENDATION** That Cabinet approves the following schemes be added to the Capital Programme 2013/14:

- Derwent Grove Flood Defence – Phase One Works
- Derwent Grove Flood Mitigation – Phase Two Design

**Mike Ashworth**  
**Acting Strategic Director – Environmental Services**