

# **Proposed Decision to be taken by the Deputy Leader (Finance and Property) on or after 17 January 2020**

## **Addition of the Pailton Property Flood Resilience Scheme to the 2019/20 Capital Programme**

### **Recommendation**

That the Deputy Leader (Finance and Property) adds the Pailton Property Flood Resilience scheme, total scheme estimate £143,865, to Warwickshire County Council's 2019/20 capital programme subject to Flood Defence Grant in Aid being secured.

### **1.0 Key Issues**

- 1.1 Warwickshire County Council's (WCC's) Local Flood Risk Management Strategy provides the structure for how it assesses local flood risk in Warwickshire. The associated Surface Water Management Plan provides the prioritisation for flood risk management work.
- 1.2 Pailton has a history of repeated flooding and is identified as a hotspot location in Warwickshire's Surface Water Management Plan (SWMP). Pailton has suffered flooding on numerous occasions, in recent times the area was flooded in 2007, 2015, 2017 and 2019, highlighting the frequency and vulnerable nature of flood risk within the village. As such the work that has been done in modelling and developing flood mitigation solutions in Pailton is consistent with WCC's strategic objectives and plans.

Scheme specific details are included below.

#### Pailton Project

- 1.3 The village of Pailton, Rugby, Warwickshire suffers from repeated flooding. Flooding occurs when surface water flows from the surrounding topography overwhelms the unnamed water course, which is dry for most of the year. This watercourse flows in a southerly direction through the village. The watercourse flows underneath Lutterworth Road via a 600 mm diameter culvert. This culvert becomes overwhelmed in flood conditions, which in turn prevents the existing highways drainage infrastructure being unable to discharge, resulting in highway flooding, leading to internal and external flooding to 22 residential properties.

WCC's Flood Risk Management (FRM) team have undertaken extensive survey works within the Pailton catchment area, including a topographic drone survey which has allowed us:

- (i) to develop a model to investigate sources of surface water flooding.
- (ii) to better understand the flooding mechanisms impacting Pailton.
- (iii) to undertake options appraisal and develop a business case to support a further bid for additional grant funding to deliver a capital scheme.

- 1.4 WCC FRM Team will be sending an Outline Business case for approval in order to secure an allocation of £143,865 Flood Defence Grant in Aid (FDGiA) to deliver the Pailton Flood Alleviation Scheme. The outline business Case will be sent to the Environmental Agency before 31/11/2019
- 1.5 Of all the options appraised, the provision of Property-level Flood Resilience measures (PFR) provided the most cost-effective solution and PFR surveys have been carried out on 22 properties. The benefit cost ratio of this option was 11 to 1.

## **2.0 Options and Proposal**

- 2.1 A long-list of options was appraised with several options being take forward for further assessment as part of the short-list. The economic assessment identified that PFR was the most cost beneficial option and therefore represented the greatest return on investment.
- 2.2 The preferred option is to install PFR to 22 residential properties. These properties were identified following a hydraulic model was built to assess the flood risk at a detailed level. In addition to this community engagement with residents identified an interest in participating in the scheme. Individual property owners will be responsible for ongoing maintenance of the measures going forward.
- 2.3 The protection provided will be tailored to the specific needs of each property being defended. Typical protection will include installation of anti-flood air brick and vent covers, flood doors, demountable flood barriers, sump pumps beneath floor level and waterproofing to external walls and other porous surfaces.
- 2.4 Procurement will be via WCC's PFR framework. WCC's framework for PFR work enables us to efficiently "call-off" and deliver specialist PFR products for locations such as Pailton. This will bring significant benefits in terms of avoiding future tendering costs, lower unit costs arising from economies of scale, improved working relationships with a dedicated supplier and having consistency of products across the County.

### 3.0 Financial Implications

3.1 The financial implications from this approval request are:

- the total scheme estimate is £143,865 which includes internal staff time, property surveys and contract delivery;
- £20,000 coming from FRM reserves.

3.2 As part of the project we will use independent building surveyors to undertake site inspections on all newly installed Property Flood Resilience measures. This will identify any works required before anything is signed off as complete.

### 4.0 Environmental Implications

4.1 By its nature any scheme that directly relates to flood alleviation will have an impact on the environment. It will be important to ensure that whilst property owners are protected so too is the environment.

### 5.0 Timescales associated with the decision and next steps

5.1 Subject to approval the installation of PFR could commence in January 2020.

### Supporting Papers

None

### Background

None

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The report was shared with Councillor Warwick prior to publication: