

# **Isle of Wight Local Flood Risk Management Strategy**

## **Appendix G: Brighstone**

**July 2016**

**Isle of Wight Council, Planning and Housing Services**

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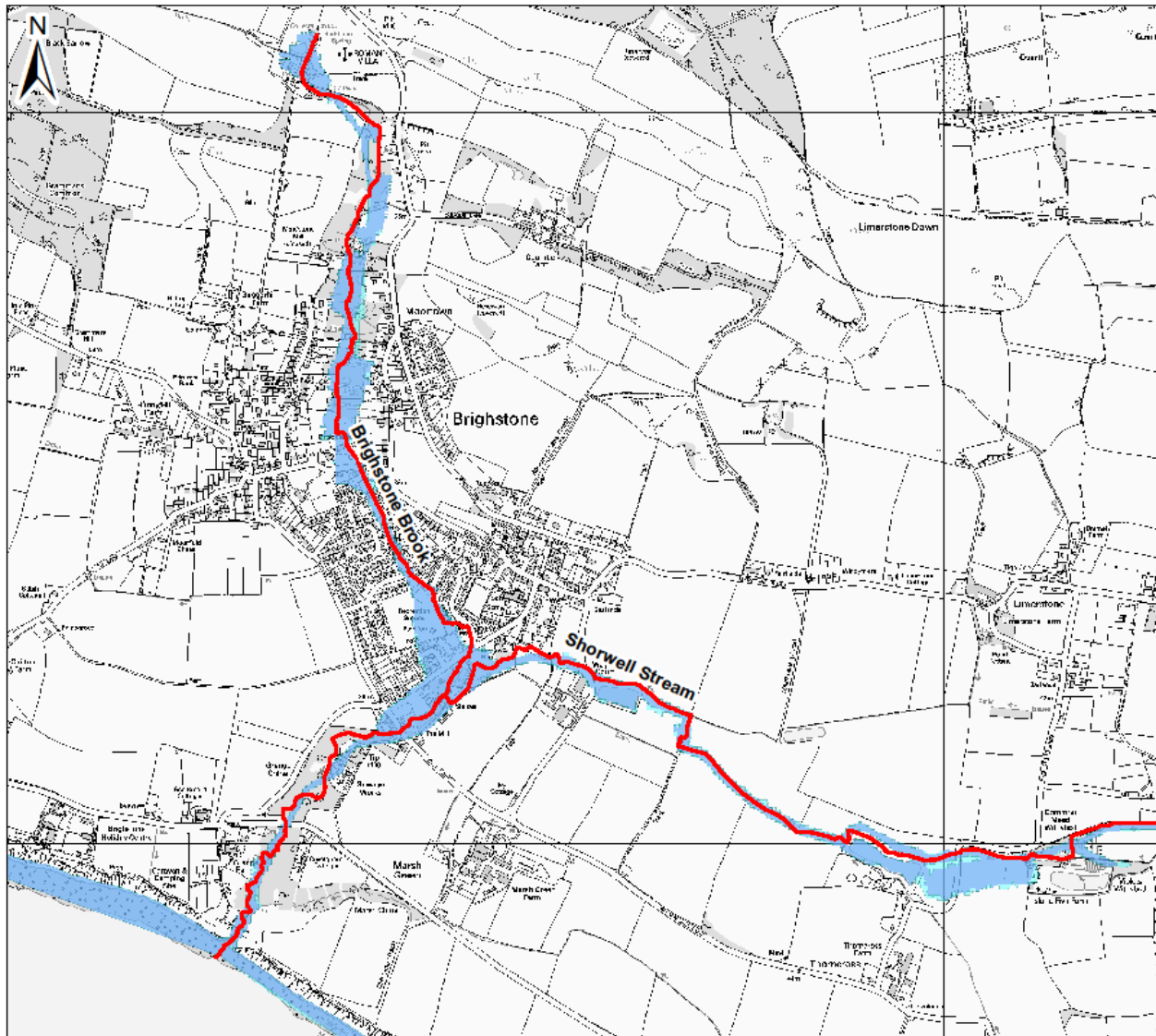
## DOCUMENT CONTROL

### General information

<b>Title</b>	Isle of Wight Local Flood Risk Management Strategy Appendices
<b>Owner</b>	Wendy Perera, Head of Planning and Housing Services – Isle of Wight Council
<b>Version</b>	Final Report
<b>File status</b>	Active

### Revision history

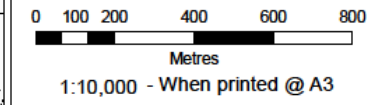
Summary of changes	Completed by	Date	Current version?
First Draft	EA/IWC	28/11/2013	No
Second Draft	EA/IWC	02/05/2014	No
Third Draft	EA/IWC	05/02/2015	No
Consultation Draft	IWC	31/03/2016	No
Final Draft Report	IWC	14/06/2016	No
Final Report	IWC Executive Committee	14/07/2016	Yes
Programmed Review	IWC	31/07/2021	



Local Flood Risk Management Strategy

**Legend**

- Main River
- Flood Zone 3
- Flood Zone 2



**Notes**

**Flood Map Areas (assuming no defences)**

**Flood Zone 3**  
Shows the area that could be affected by flooding:  
- from the sea with a 1 in 200 (0.5%) or greater chance of happening each year.  
- or from a river with a 1 in 100 (1%) or greater chance of happening each year.

**Flood Zone 2**  
Shows the extent of an extreme flood from rivers or the sea with up to a 1 in 1000 (0.1%) chance of occurring each year.

**Figure G1**  
Environment Agency Flood Zones 2 & 3 for Brighstone

November 2014

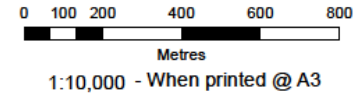
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Local Flood Risk Management Strategy

**Legend**

- Main River
- Ordinary Watercourses
- High
- Medium
- Low



**Notes**

**Likelihood of flooding from Surface Water**

- High :**  
Greater than or equal to 1 in 30 (3.3%) chance in any given year.
- Medium :**  
Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance in any given year.
- Low :**  
Less than 1 in 100 (1%) but greater than or equal to 1 in 1,000 (0.1%) chance in any given year.
- Very Low :**  
Less than 1 in 1,000 (0.1%) chance in any given year.

**Figure G2**  
Updated Flood Map for Surface Water (UFMSW) for Brighstone

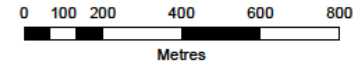
May 2015



Local Flood Risk Management Strategy

**Legend**

- Recorded Flood Events



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**Notes**

Location of reported flooding incidents

**Figure G3**  
Historic flood events for Brighstone

May 2015

## **Area overview**

Brighstone is located on the confluence of Brighstone Brook and Shorwell Stream, both of which are designated Main Rivers.

According to the latest modelling, the flood risk to Brighstone is predominantly of a fluvial nature, with some impacts possible as a result of surface water.

## **Tidal flood risk**

Due to the inland location of Brighstone, tidal flood risk is considered to be nil.

## **Fluvial flood risk**

The Brighstone Brook bisects the majority of the town of Brighstone, flowing from north to south, where it meets the Shorwell Stream just to the south of *New Road*. The Brighstone Brook then flows in a south-westerly direction before discharging to the sea. Modelled flood risk shows that for the upper reaches of the watercourses, properties adjacent to the watercourses may be affected by flooding. Further downstream where the two rivers meet, the extent of the flood risk is greater, deemed to affect the *Recreation Ground*, *New Road* and the properties between these areas.

There is also potential for flooding to affect the *sewage works* to the south-west of *Mill Lane*.

## **Surface water flood risk**

The areas modelled to be at flood risk from surface water in Brighstone generally tend to follow the line of the watercourses, in addition to minor ponding on road surfaces in identified low points. The only exception to this is an area of modelled risk originating just north of the Brighstone Church of England Primary School and flowing in a south-westerly direction towards the Brighstone Brook at *Wilberforce Road*. There is potential for a limited number of properties to be affected by such an occurrence.

## **Groundwater flood risk**

There have been no incidents of groundwater flooding recorded for the Brighstone area. As such, groundwater flood risk is considered to be low.

## **Reservoir flood risk**

There are currently no known reservoirs on the Island that meet the requirements of the Reservoirs Act 1975, which are reservoirs that hold at least 25,000 cubic metres of water above ground level. As such flood risk from this source is considered to be nil.