

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

## **Appendix P: Newport**

**July 2016**

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

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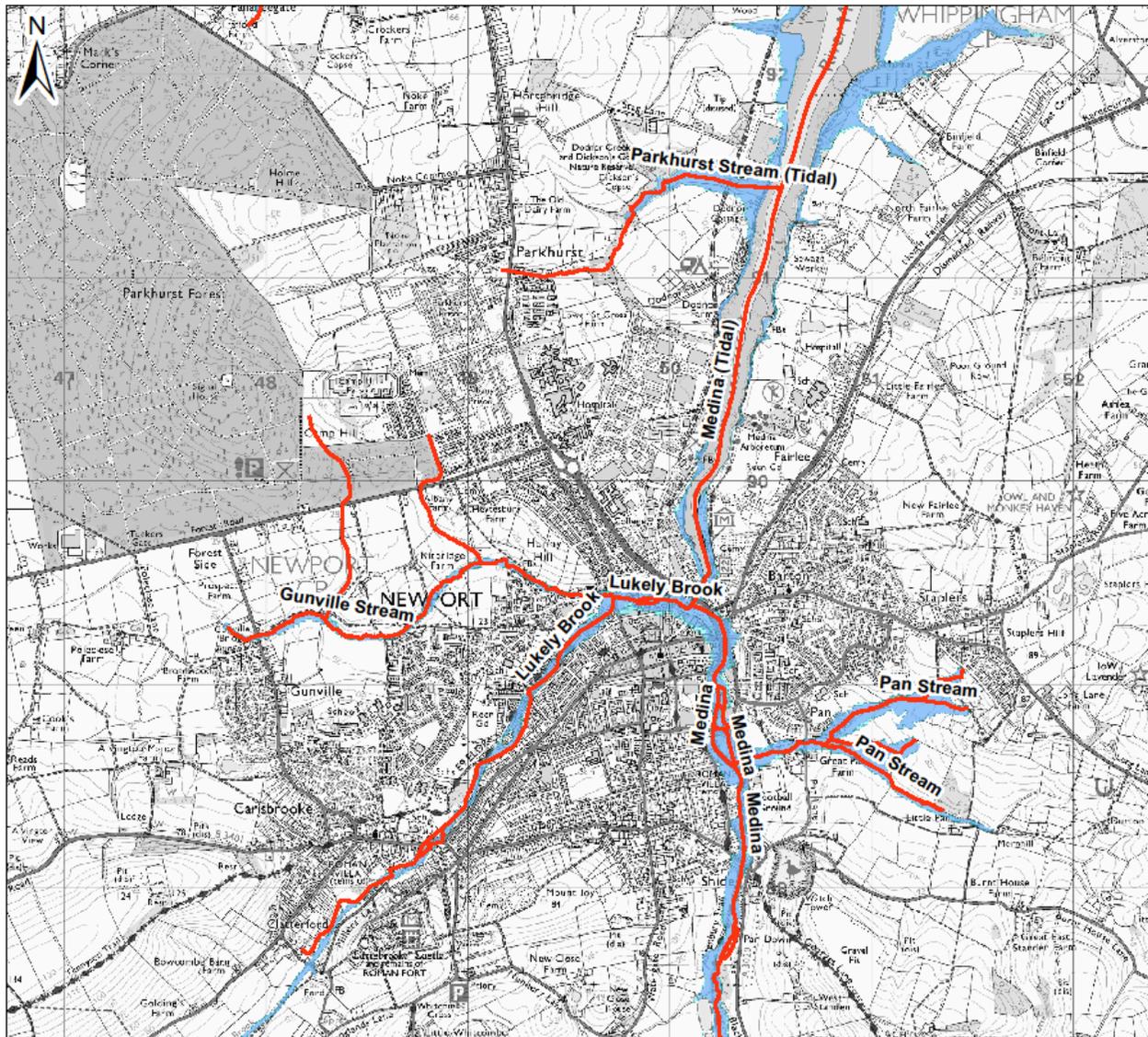
## DOCUMENT CONTROL

### 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	



**Legend**

- Main River
- Flood Zone 3
- Flood Zone 2

0 175 350 700 1,050 1,400  
Metres  
1:18,000 - When printed @ A3

**Notes**

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

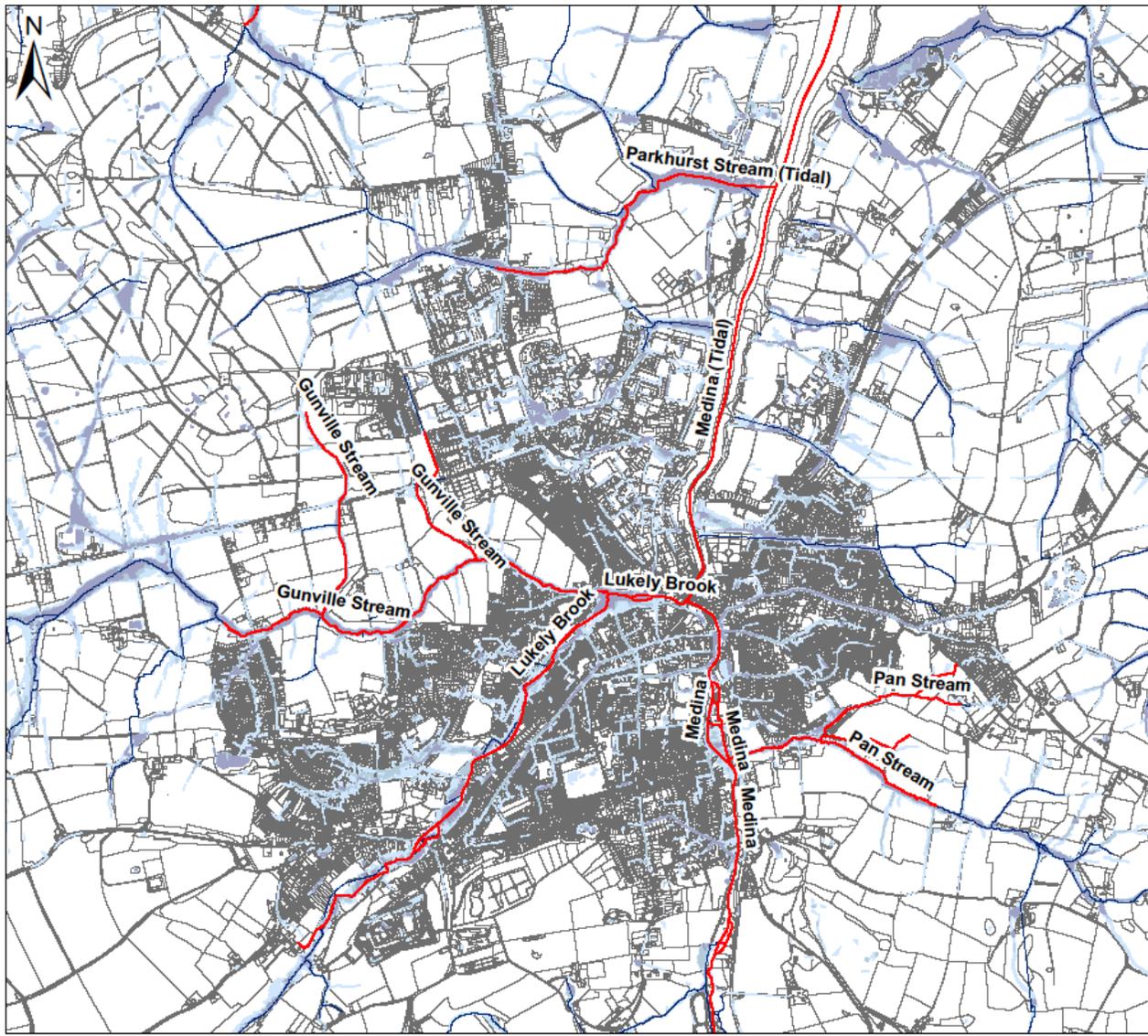
**Flood Zone 3**  
Shows the area that could be affected by flooding:  
- from the sea with a 1 in 200 (0.5%) or greater chance of happening each year.  
- or from a river with a 1 in 100 (1%) or greater chance of happening each year.

**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 P1**  
Environment Agency Flood Zones 2 & 3 for Newport

November 2014

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**Local Flood Risk Management Strategy**

**Legend**

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

0 175 350 700 1,050 1,400  
 Metres  
 1:18,000 - When printed @ A3

**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 P2**  
Updated Flood Map for Surface Water (UFMfSW) for Newport

May 2015

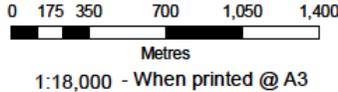
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Local Flood Risk Management Strategy

**Legend**

● Recorded Flood Events



**Notes**

Location of reported flooding incidents

**Figure P3**  
Historic flood events for Newport

May 2015

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## **Area overview**

Newport has the greatest density of watercourses of any town on the Island, all of which are classified as Main Rivers and a significant number of these have Environment Agency Flood Zones associated with them. There exists a both tidal and fluvial flood risk in Newport. The tidal flood risk, as defined by the Flood Zone extends as far up the Medina Estuary as the bridge where the A3020 crosses the River Medina. However, the tidal mapping of the Medina Estuary carried out for this SFRA indicates that the tidal flood risk may extend further upstream. This discrepancy is likely to be due to different methodologies used.

Fluvial Flood Zones exist for the River Medina, Lukely Brook, Pan Stream and Gunville Stream. Parkhurst Stream however, which is designated as main river, does not have a Fluvial Flood Zone.

The Isle of Wight Autumn 2000 Flood Investigation Study –(*Newport Isle of Wight Council Flood Report*) found that although parts of Newport are in the Medina and Lukely Brook floodplains, only *St Cross Mill* was reported as flooding due to high river levels. Through Newport channel improvement works designed in the 1960s were sufficient to prevent more extensive flooding, although the standard of protection will diminish with time.

## **Tidal flood risk**

For the majority of Newport, tidal flood risk is considered to be negligible. A tidal food risk does exist at the northern end of the town at the confluence of the Lukely Brook and the River Medina (*Little London/Sea Street* area). This is considered to be the tidal limit of the Medina, and as such, those areas north of this point at risk of flooding will be predominantly from a tidal source. No tidal flooding was reported during the winter of 2000 / 2001 or associated with the high tidal surge of 14<sup>th</sup> February 2014.

## **Fluvial flood risk**

There is modelled fluvial flood risk associated with all Main Rivers in Newport with the exception of the Parkhurst Stream on the western side of the tidal part of the River Medina.

The Gunville Stream represents a low risk of flooding to residential areas due to its route mainly consisting of rural or agricultural land. There are two exceptions to this, namely the *Gunville Bridge* on *Gunville Road* where the bridge itself has the potential to restrict flows, and to the north of *Maple Drive* where the river passes the rear of properties before joining the Lukely Brook. Two tributaries of the Gunville Stream flowing from north to south represent minimal flood risk until they meet with the main east to west flowing part of the Gunville Stream itself.

The Lukely Brook is officially considered Main River immediately north of the *Clatterford Shute*. It flows from here, through *Carisbrooke* and the rest of Newport, where it meets the Gunville Stream just east of *Sainsburys*. The Lukely Brook is a highly modified watercourse, with 3 fords, several culverts and flow splits for historic mill buildings. There is also an online pond at the behind the *Eight Bells Pub* which is fed from the river. Due to these modifications, and the urban nature of the land surrounding the watercourse, there are several areas of modelled flood risk where property can be affected due to the proximity of property to the watercourse and the danger of blockages at culverts. Flooding has been

experienced in the winter of 2013/14 in these areas along the Lukely Brook including at and around all 3 fords.

The River Medina is considered Main River from *Chale Green* in the south west of the Island. It flows mainly through rural land until it joins with the Merstone Stream at *Blackwater*. From here it flows down through *Shide* and into Newport itself before meeting its tidal limit approximately at the *Little London/Sea Street* area. As with the Lukely Brook, the Medina is a heavily modified watercourse flowing through an urban area. As such, there are areas of modelled risk all along its course – however, this risk is generally below *Shide* as between *Shide* and *Blackwater* there is no modelled risk to property.

The Pan Stream flows into the River Medina from the east where it joins behind the *Football Ground*. The Pan Stream generally drains Greenfield land, although there is development taking place at the upper reaches of the Pan Stream. There is however modelled flood risk to *Garden Way* where the Pan Stream is culverted, and along *Pan Lane* where the Pan Stream passes under the road. Flooding was experienced around these locations during the winter of 2013/14.

### **Surface water flood risk**

As there are several watercourses throughout Newport, and due to the urban nature of the area, modelled surface water risk tends to follow the line of the watercourses. There are exceptions to this however. Areas to the north and west of *Carisbrooke C of E Primary school* show well defined flow routes along the highways that have the potential to affect property. This flow route then joins the Lukely Brook across the school playing fields at *Recreation Ground Road*. The majority of highways in the centre of Newport are susceptible to surface water flooding according to the latest modelling.

### **Groundwater flood risk**

There have been no incidents of groundwater flooding recorded for the Newport 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.