

Isle of Wight Local Flood Risk Management Strategy

Appendix R: Arreton

July 2016

Isle of Wight Council, Planning and Housing Services

Isle of Wight Council, Seaclose Offices, Fairlee Road, Newport, Isle of Wight, PO30 2QS
Tel. 01983 821000. Web: www.iwight.com

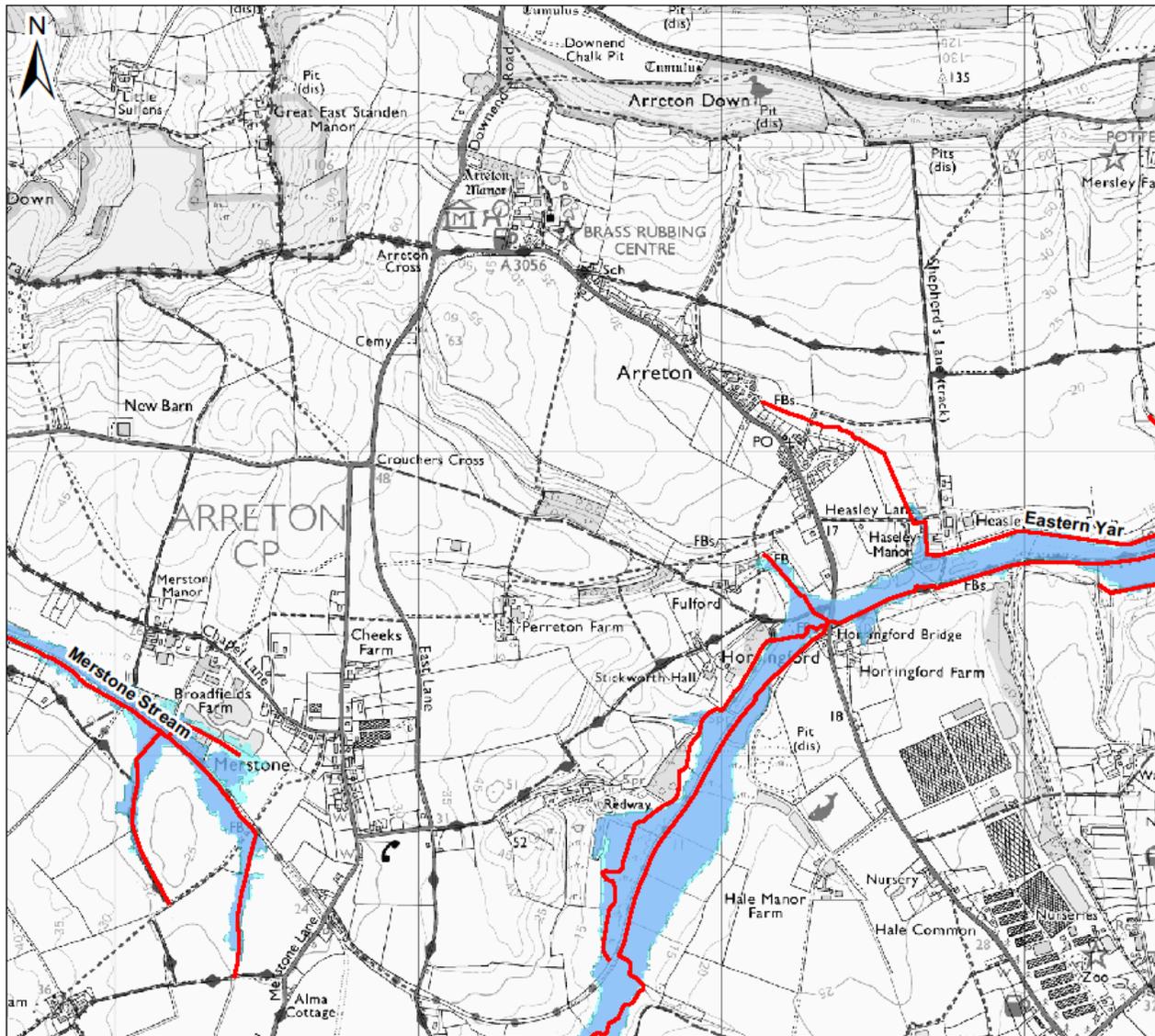
DOCUMENT CONTROL

General information

| | |
|--------------------|---|
| Title | Isle of Wight Local Flood Risk Management Strategy Appendices |
| Owner | Wendy Perera, Head of Planning and Housing Services – Isle of Wight Council |
| Version | Final Report |
| File status | 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

0 125 250 500 750 1,000
Metres
1:12,000 - When printed @ A3

Notes

Flood Map Areas (assuming no defences)

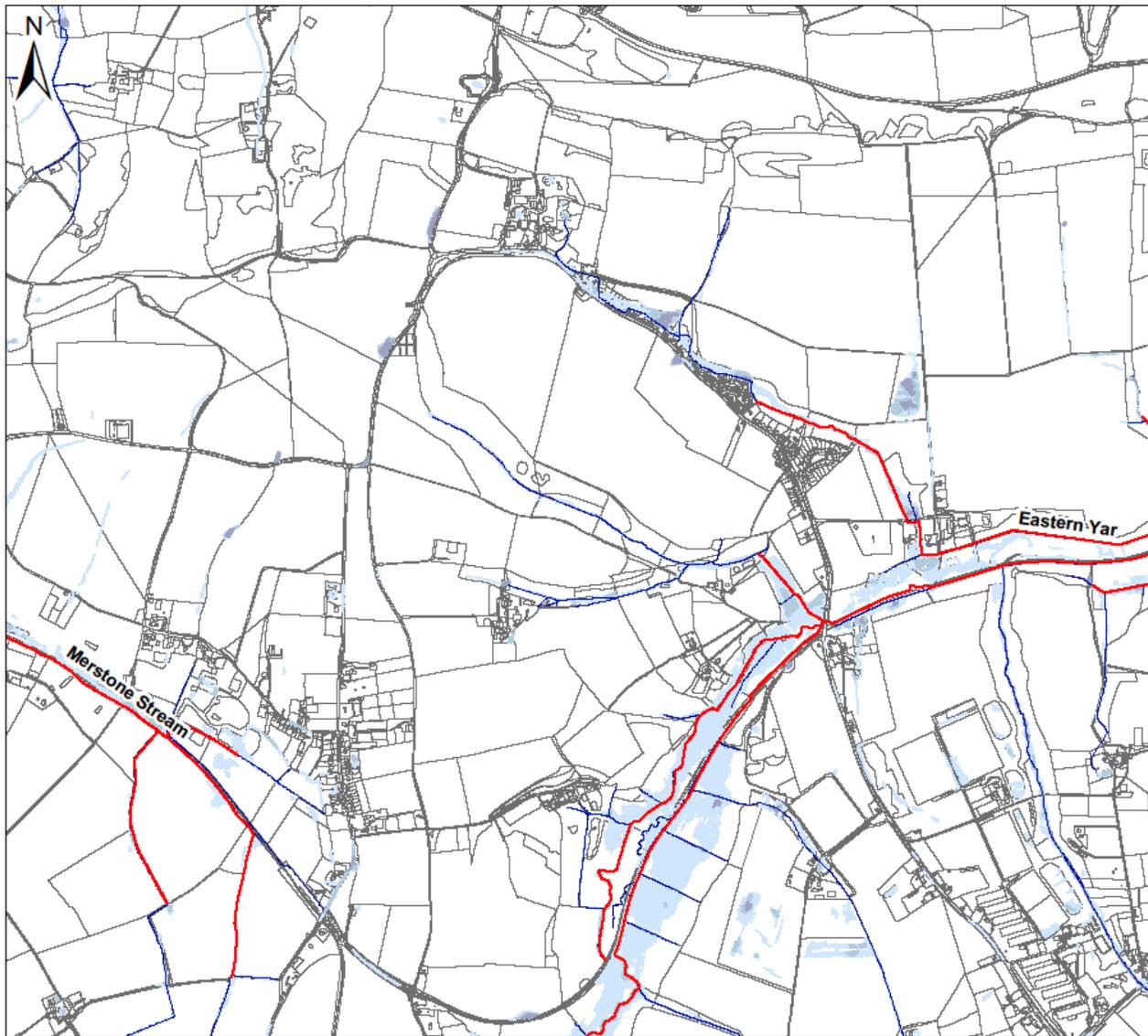
Flood Zone 3
Shows the area that could be affected by flooding:
- from the sea with a 1 in 200 (0.5%) or greater chance of happening each year.
- or from a river with a 1 in 100 (1%) or greater chance of happening each year.

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 R1
Environment Agency Flood Zones 2 & 3 for Arreton

November 2014

Based upon the Ordnance Survey Map with the permission of the Controller of Her Majesty's Stationery Office. © Crown Copyright. AL100001776




ISLE of WIGHT COUNCIL

Local Flood Risk Management Strategy

Legend

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

0 125 250 500 750 1,000
Metres
1:12,000 - 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 R2
Updated Flood Map for Surface Water (UFMfSW) for Arreton

May 2015

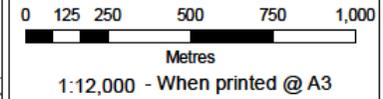
Based upon the Ordnance Survey Map with the permission of the Controller of Her Majesty's Stationery Office. © Crown Copyright. AL10001776



Local Flood Risk Management Strategy

Legend

● Recorded Flood Events



Notes

Location of reported flooding incidents

Figure R3

Historic flood events for Arreton

May 2015

Area overview

Arreton is a small settlement located in the mid reaches of the Eastern Yar catchment in the South east quarter of the Island. The majority of existing development is outside of Flood Zones 2 and 3. Modelling suggests that surface water flow routes could form to the east of the main road (A3056). It is assumed therefore that the flood risk issues in Arreton are dominated by surface water issues.

Tidal flood risk

Due to the inland location of Arreton, tidal flood risk is considered to be negligible.

Fluvial flood risk

Whilst tributaries of the Eastern Yar flow through Arreton, there is no modelled fluvial flood risk shown to affect the settlement itself. It is possible that the road into Arreton from the south, the A3056, could experience fluvial flooding around *Horringtonford Bridge*, where the Eastern Yar passes beneath it.

Surface water flood risk

Modelled surface water flood risk shows that surface flows generally tend to follow the line of an Ordinary Watercourse to the north of *Main Road*. The modelling also shows that there are localised areas of ponding at low points or depressions. The modelling generally shows surface flows to pass around properties rather than affecting them directly, although this does not exclude properties from surface water risk. It is also possible that *Main Road* itself may experience low level flooding at points, especially to the western side of the settlement around the hall.

Groundwater flood risk

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