

Isle of Wight Local Flood Risk Management Strategy

Appendix E: West Wight

July 2016

Isle of Wight Council, Planning and Housing Services

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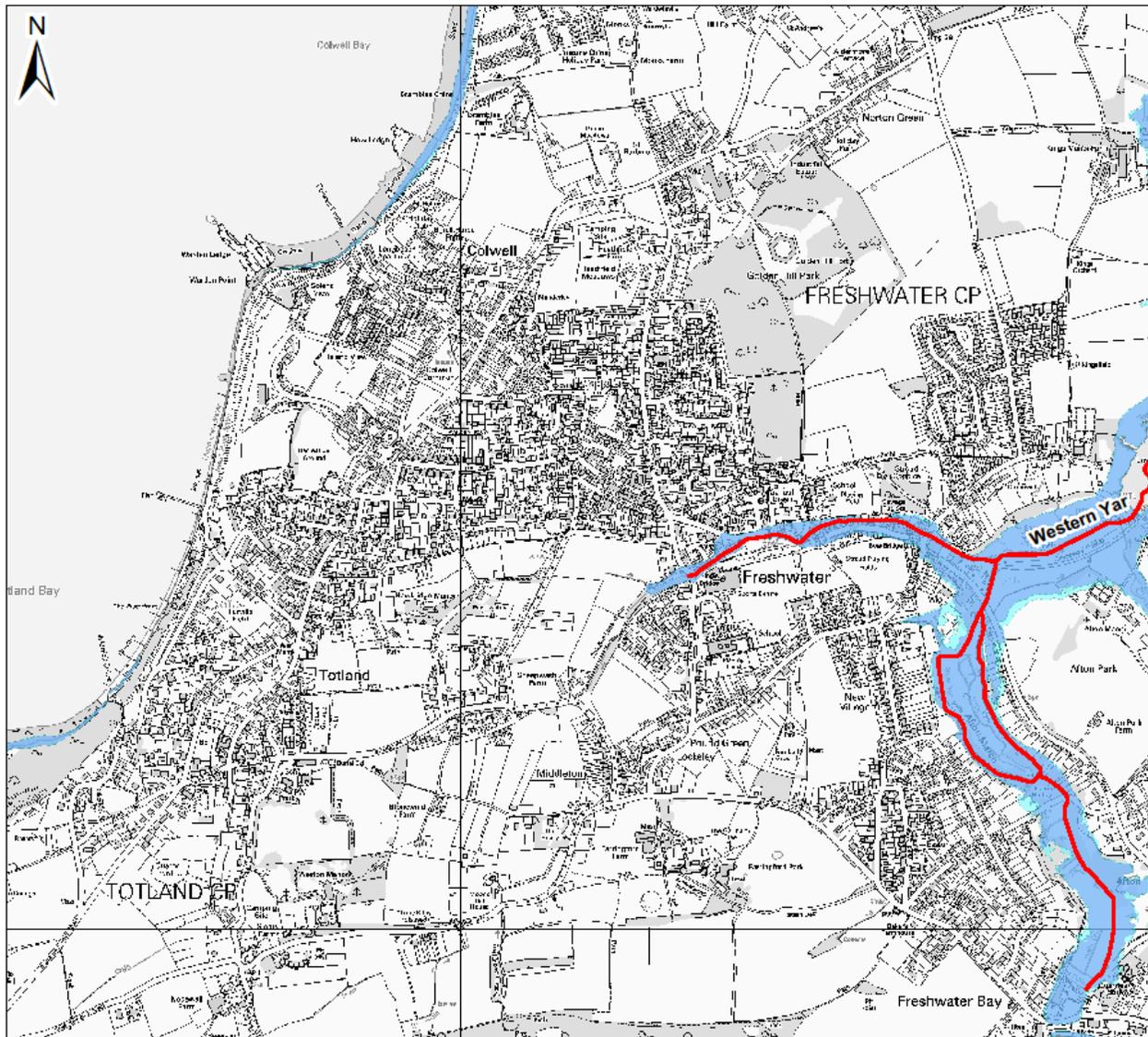
DOCUMENT CONTROL

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

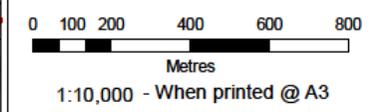
Revision history

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



Notes

Flood Map Areas (assuming no defences)

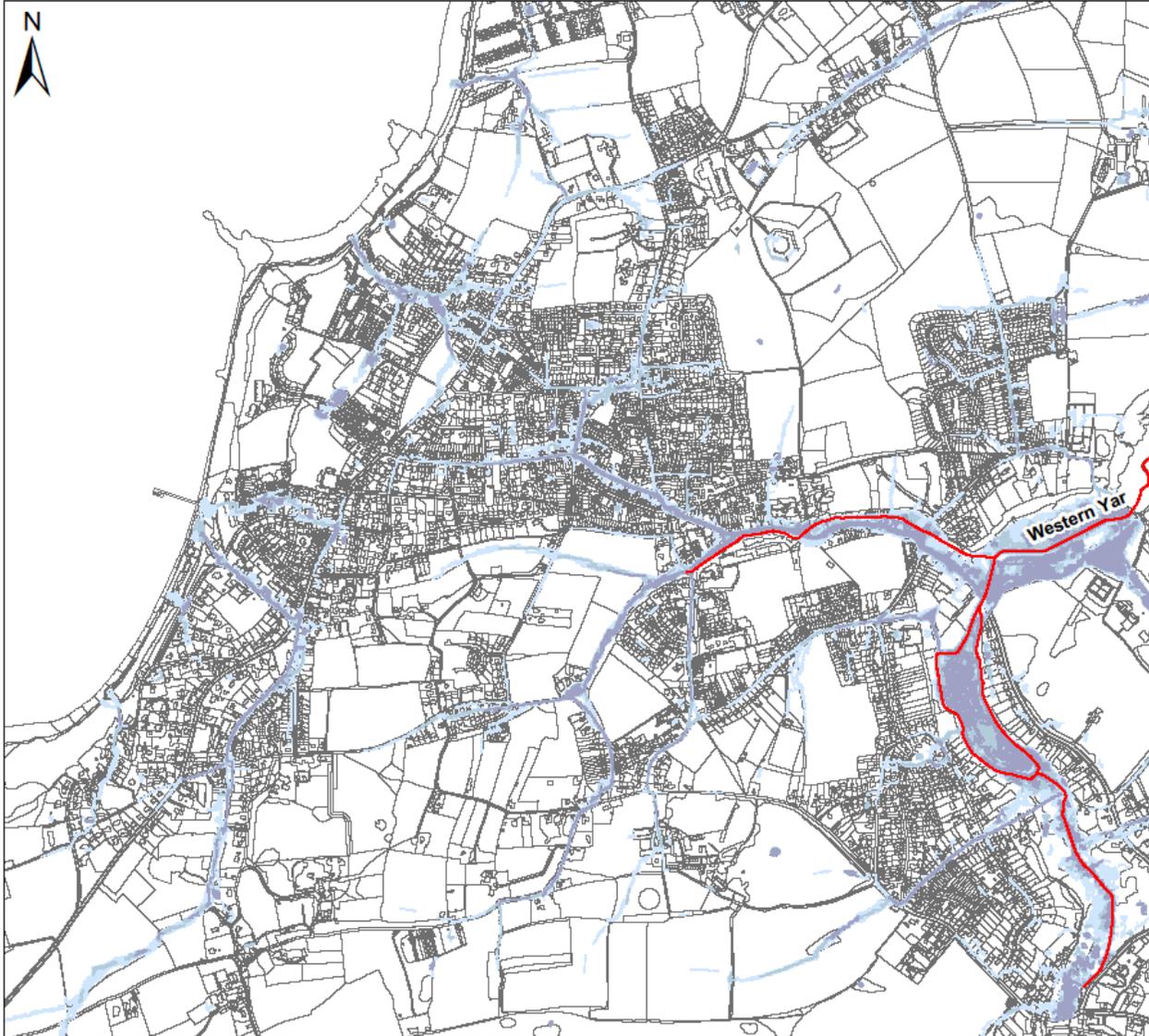
Flood Zone 3
Shows the area that could be affected by flooding:
- from the sea with a 1 in 200 (0.5%) or greater chance of happening each year.
- or from a river with a 1 in 100 (1%) or greater chance of happening each year.

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 E1
Environment Agency Flood Zones 2 & 3 for West Wight

November 2014

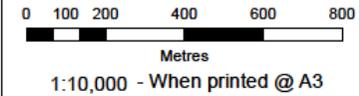
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Local Flood Risk Management Strategy

Legend

- Main River
- 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 E2
Updated Flood Map for Surface Water (UFMfSW) for West Wight

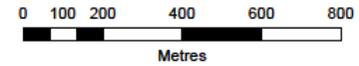
May 2015



Local Flood Risk Management Strategy

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● Recorded Flood Events



1:10,000 - When printed @ A3

Notes

Location of reported flooding incidents

Figure E3
Historic flood events for West Wight

May 2015

Area overview

The West Wight area is comprised of the towns of Totland and Freshwater. Totland lies on a raised area of land adjacent to the coast, while Freshwater is built at a lower level, with a significant area of the town below 10m AOD.

Flood risk in the two centres is contrasting with minimal flood risk posed to sites in Totland, yet both tidal and fluvial flooding present a flood risk in Freshwater. The town of Freshwater has a history of flooding relating to the Western Yar. The Western Yar presents a fluvial risk and a tidal risk by acting as a conduit for tidal flood waters.

Tidal flood risk

Due to land quickly becoming elevated with increasing distance from the shoreline, there is generally a low risk of tidal flooding along this section of the coast. There is however a modelled tidal risk to the town of Freshwater due to tidal ingress along the Western Yar. The Western Yar is also susceptible to tide locking which has the potential to exacerbate fluvial and pluvial risks.

Fluvial flood risk

Freshwater is at risk from fluvial flooding due to the close proximity of properties to the main river.

The Environment Agency flood zone along *Brookside Road* and *School Green Road* are considered to be functional floodplain (Zone 3b) for the Western Yar.

In contrast, very few areas have been identified as being within Flood Zones 2 or 3 in Totland. This is due to the absence of any main rivers running through the town.

Surface water flood risk

Modelled flood risk from surface water generally shows overland flow routes to be confined to roads and along the lines of defined watercourses. There are signs for potential ponding of surface water in natural low points in the topography where there is no mechanism to take the surface water away (a watercourse or piped surface water drainage system).

Groundwater flood risk

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