Appendix C Environment Agency's Data and Information

Sohan Ghimire
UK Flood Risk
18 St Nicholas Road
Plumstead
London
SE18 1HJ

Our ref: SSD112206
Your ref:
Date: 22/01/2019

Dear Sohan Ghimire

Product 4 request for 49 Warren Way, Barnham, Bognor Regis, West Sussex PO22 0JX

Thank you for your enquiry which was received on 03/01/2019.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004. The information is attached.

The information on Flood Zones in the area relating to this address is as follows:

The site is in an area located within Flood Zone 3 as shown on our Flood Map for Planning (Rivers and Sea).

Note - This information relates to the area that the above named property is in and is not specific to the property itself as it is influenced by factors such as the height of door steps, air bricks or the height of surrounding walls. We do not have access to this information and is not currently used in our flood modelling.

Flood Zone definitions can be found at www.gov.uk/guidance/flood-risk-and-coastal-change#Table-1-Flood-Zones

Flood Defences
There are no formal raised flood defences in the vicinity of the site.

Under normal conditions flow from the Aldingbourne Rife is conveyed under the sea wall via two gravity outfall structures which have tidal flaps. When tidal conditions and river flows dictate, flow is pumped over the sea wall by Felpham pumping station to discharge into a stilling bay on the upper foreshore.

Model Information
The model used is the 2015 Aldingbourne Flood Risk Mapping study, completed by JBA Consulting.

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Although there are no formal raised flood defences in the vicinity of the site, Felpham pumping station has been identified as a defence as an inland pumping station. Therefore, the defended scenario includes the presence of the pumping station.

Flood History
Our historic flood records show that the site has been flooded by the Barnham Rife in 1974 and 1993.

Please note our records are not comprehensive and may not include all events. I recommend contacting the Lead Local Flood Authority, **West Sussex County Council** or the Local Authority, **Arun District Council** for a more comprehensive flood history check.

FRA advisory text

Name	Product 4
Description	Detailed Flood Risk Assessment Map for **49 Warren Way, Barnham, Bognor Regis, West Sussex PO22 0JX**
Licence	Open Government Licence
Information Warnings	None
Information Warning - OS background mapping	*The mapping of features provided as a background in this product is © Ordnance Survey. It is provided to give context to this product. The Open Government Licence does not apply to this background mapping. You are granted a non-exclusive, royalty free, revocable licence solely to view the Licensed Data for non-commercial purposes for the period during which the Environment Agency makes it available. You are not permitted to copy, sub-license, distribute, sell or otherwise make available the Licensed Data to third parties in any form. Third party rights to enforce the terms of this licence shall be reserved to OS.*
Attribution	Contains Environment Agency information © Environment Agency and/or database rights. Contains Ordnance Survey data © Crown copyright 2018 Ordnance Survey 100024198.

Data Available Online

Many of our flood datasets are available online:

- Flood Map For Planning (Flood Zone 2, Flood Zone 3 ,Flood Storage Areas, Flood Defences, Areas Benefiting from Defences)
- Risk of Flooding from Rivers and Sea
- Historic Flood Map
- Current Flood Warnings

Please get in touch if you have any further queries or contact us within two months if you'd like us to review the information we have sent.

Yours sincerely,

Eleonora Pilla
Flood and Coastal Risk Management Officer
Partnership & Strategic Overview
West Sussex

Product 4 Flood Risk Data Requested by: UK Flood Risk

Site: 49 Warren Way, Barnham, Bognor Regis, West Sussex PO22 0JX

Table 1: Water Levels: Fluvial Defended

	NGR		Modelled Flood Levels in Metres AOD					
			Defended Annual Exceedance Probability					
Node Ref	**Eastings**	**Northings**	**5%**	**1%**	**1% +CC (35%)**	**1% +CC (45%)**	**1% +CC (105%)**	**0.1%**
1	496058	104552	-	4.84	5.62	5.62	6.24	6.07

Table 2: Water Depths: Fluvial Defended

	NGR		Modelled Flood Depths in Metres					
			Defended Annual Exceedance Probability					
Node Ref	**Eastings**	**Northings**	**5%**	**1%**	**1% +CC (35%)**	**1% +CC (45%)**	**1% +CC (105%)**	**0.1%**
1	496058	104552	-	0.80	1.58	1.58	2.20	2.03

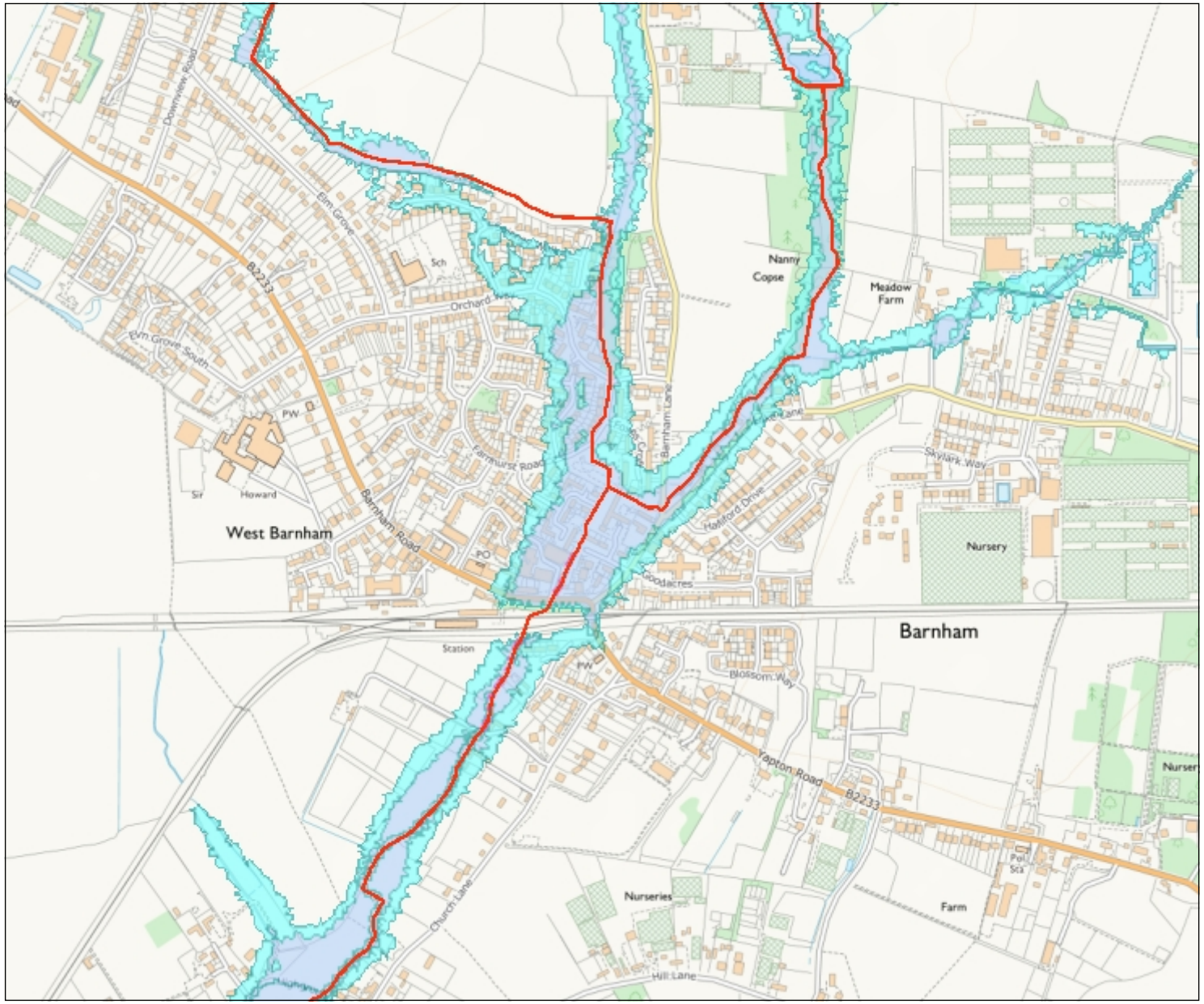
All levels taken from: Aldingbourne Rife 2015 Model

Produced on: 22/01/2019

There is no additional information or health warnings for these levels/depths or the model from which they have been produced.

Office Address: Guildbourne House, Chatsworth Road, Worthing BN11 1LD.
Customer services line: 03708 506 506. Email: enquiries@environment-agency.gov.uk
www.gov.uk/government/organisations/environment-agency

Flood Map for Planning (Rivers and Sea) created 18/01/2019



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Scale 1: 10,000

N W E S

Flood Map for Planning (Rivers & Sea)

- Sealed Main Rivers
- Defences
- Flood Storage Areas
- Areas benefiting from flood defences
- Flood Zone 3
- Flood Zone 2

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 or greater chance of happening each year
- or from a river with a 1 in 100 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 chance of occuring each year.

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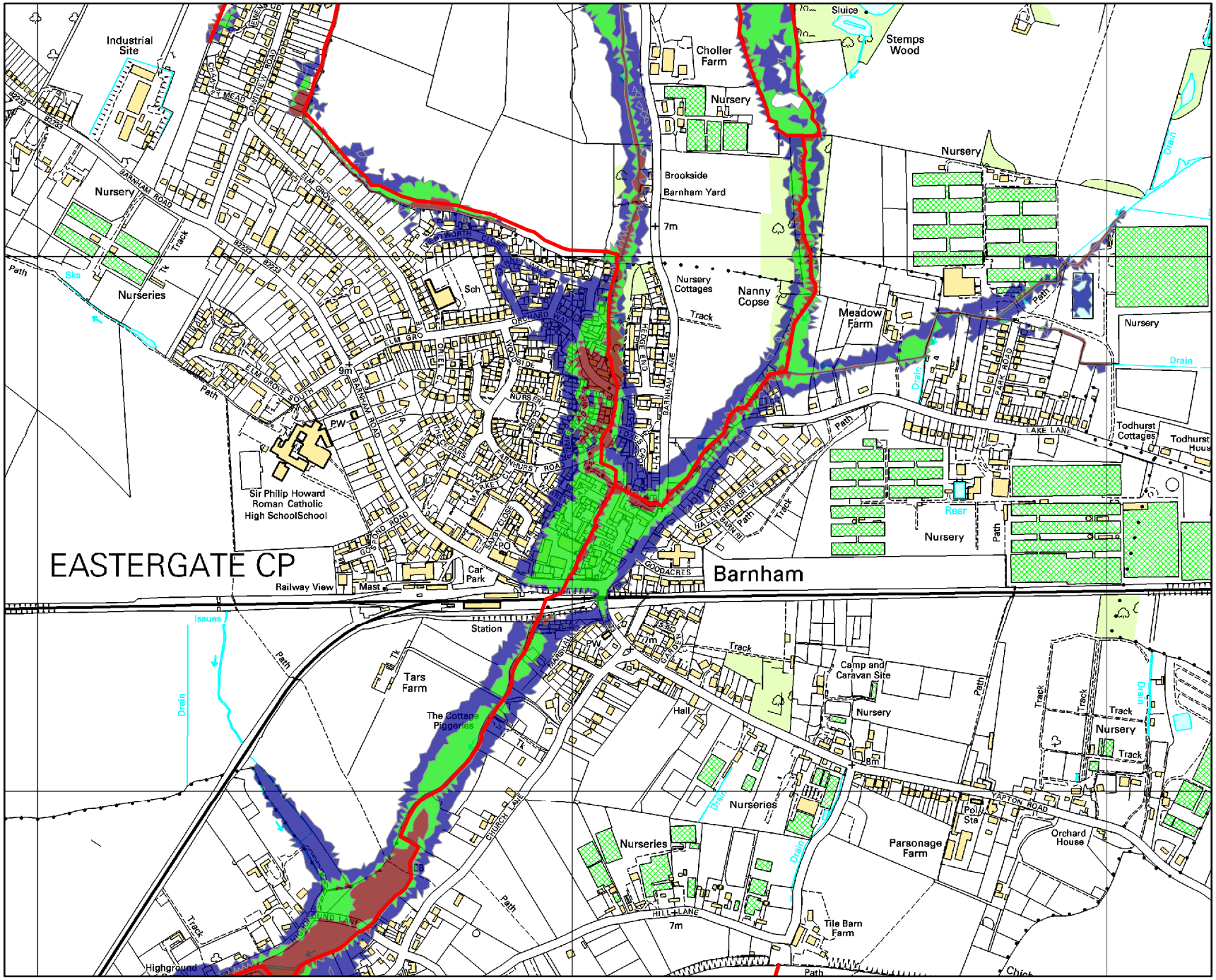
Modelled Flood Outlines. Centred PO22 0JX. Created 22/01/2019 (Ref: SSD/112206)



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N

Legend

- Main River
- 5% AEP (Defended Fluvial)
- 1% AEP (Defended Fluvial)
- 0.1% AEP (Defended Fluvial)

Annual Exceedance Probability (AEP) The probability of a flood of a particular magnitude, or greater occurring in any given year.

Scale: 1:10,000

0 0.25 0.5
Kilometers

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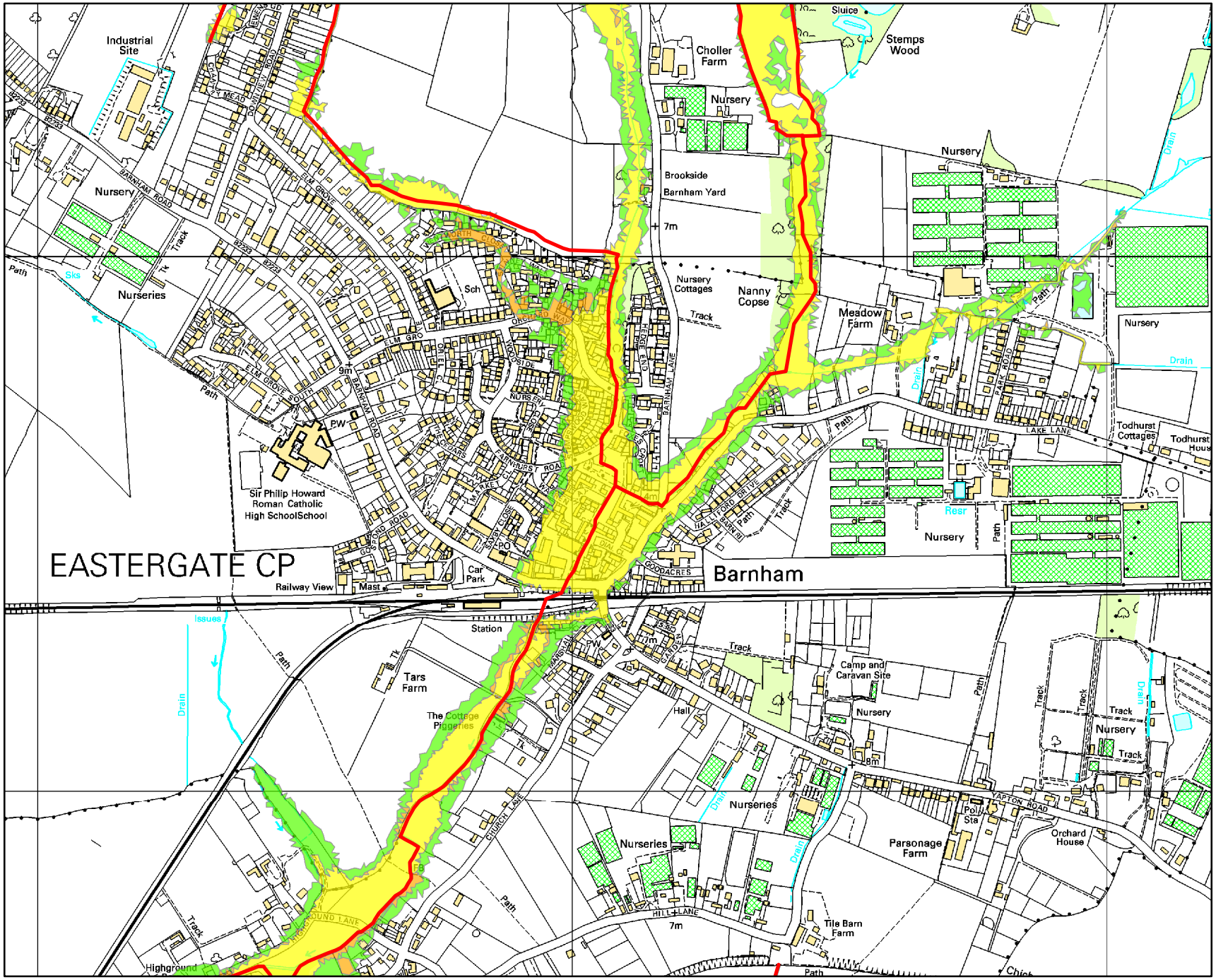
Modelled Flood Outlines. Centred PO22 0JX. Created 22/01/2019 (Ref: SSD/112206)



Environment Agency

N

Legend

- Main River
- 1% AEP Plus Climate Change (35%) (Defended Fluvial)
- 1% AEP Plus Climate Change (45%) (Defended Fluvial)
- 1% AEP Plus Climate Change (105%) (Defended Fluvial)

Annual Exceedance Probability (AEP) The probability of a flood of a particular magnitude, or greater occurring in any given year.

Scale: 1:10,000

0 0.25 0.5
Kilometers

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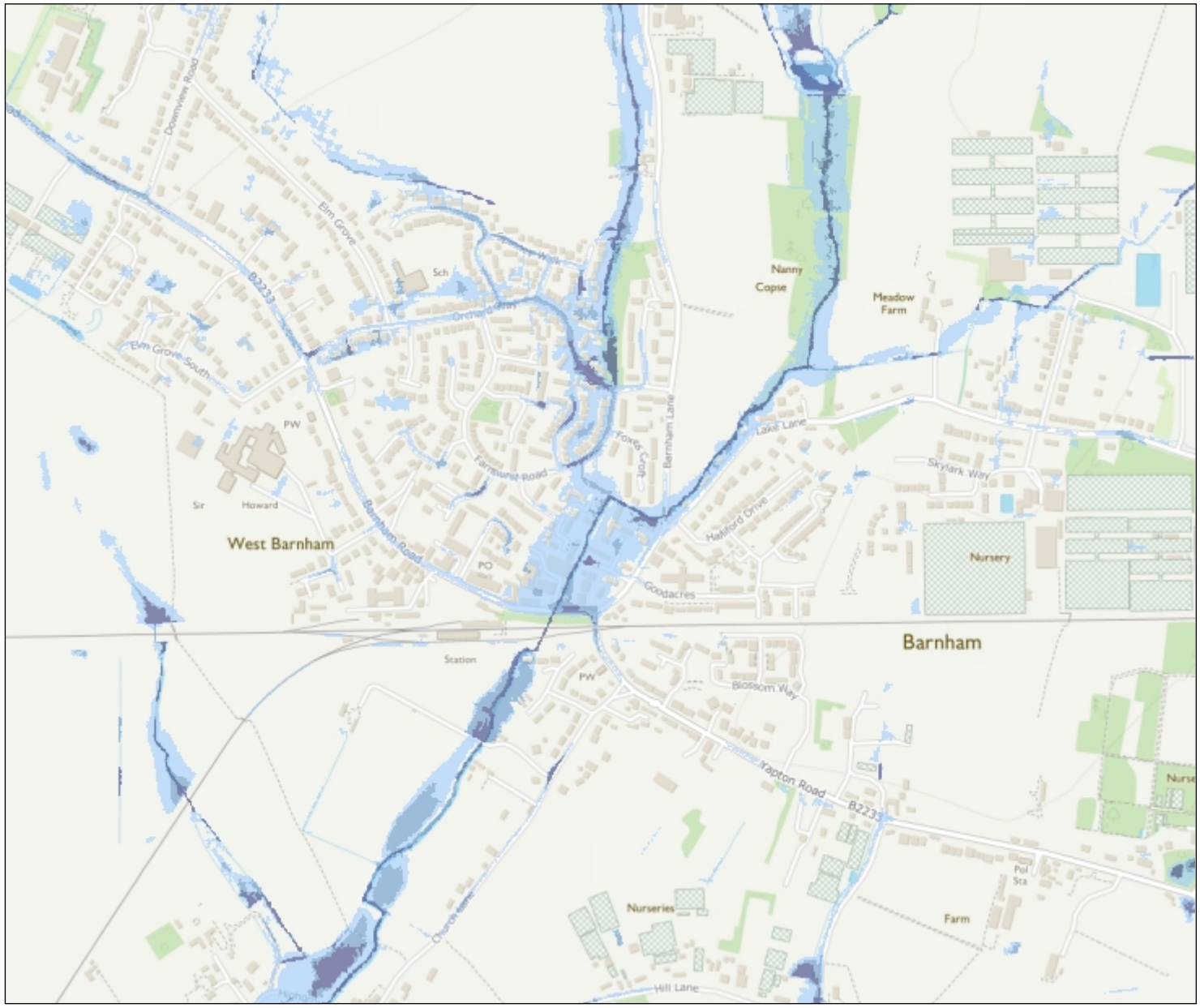
Risk of flooding from Surface Water



Scale 1:10,000

N
W E
S

Likelihood of flooding from Surface Water

- High (>= 3.3%)
- Medium (3.3% - 1%)
- Low (1% - 0.1%)
- Very Low

Likelihood of flooding from Surface Water

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

This information is shown on the Risk of Flooding from Surface Water map on our website.

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Site node points. Centred PO22 0JX. Created 22/01/2019 (Ref: SSD/112206)

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N

Legend

Main River

Node_Points

Scale: 1:500

0 0.0125 0.025

Kilometers

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