



Norwich Western Link

Environmental Statement Chapter 13: Geology and Soils

Appendix 13.1: Interpretative Environmental Desk Study Report

Sub Appendix D: Envirocheck Report Part 5 of 6

Author: WSP

Document Reference: 3.13.01d

Version Number: 00

Date: March 2024



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1 Introduction

1.1.1 WSP UK Ltd was commissioned by NCC to complete a Preliminary Risk Assessment to inform the baseline assessment for the Environmental Statement Chapter 13: Geology & Soils. This appendix contains Part 5 of a third party database report with historical maps and regulatory data.

1.1.2 We have included a summary of key information shown in this document in an accessible format in section 1.1.1. However, some users may not be able to access all technical details that are included in the rest of this document. If you require this document in a more accessible format, please contact norwichwesternlink@norfolk.gov.uk



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JBA 100 Year Return Flood Map (Undeferred) (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

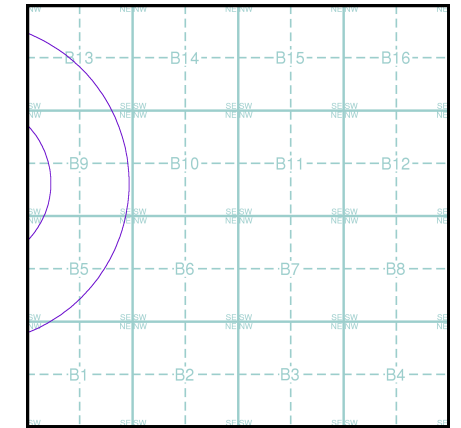
Modelled Flood Depth

Fluvial Depth	Coastal Depth
0.01m - 0.05m	0.01m - 0.05m
0.05m - 0.1m	0.05m - 0.1m
0.1m - 0.3m	0.1m - 0.3m
0.3m - 1m	0.3m - 1m
>1m	>1m

Contours (height in metres)

- Standard Contour 105 100 95 MLW Mean Low Water
- Master Contour 100 95 MHW Mean High Water
- Spot Height 167.8

JBA 100 Year Return Flood Map (Undeferred) - Slice B



Order Details

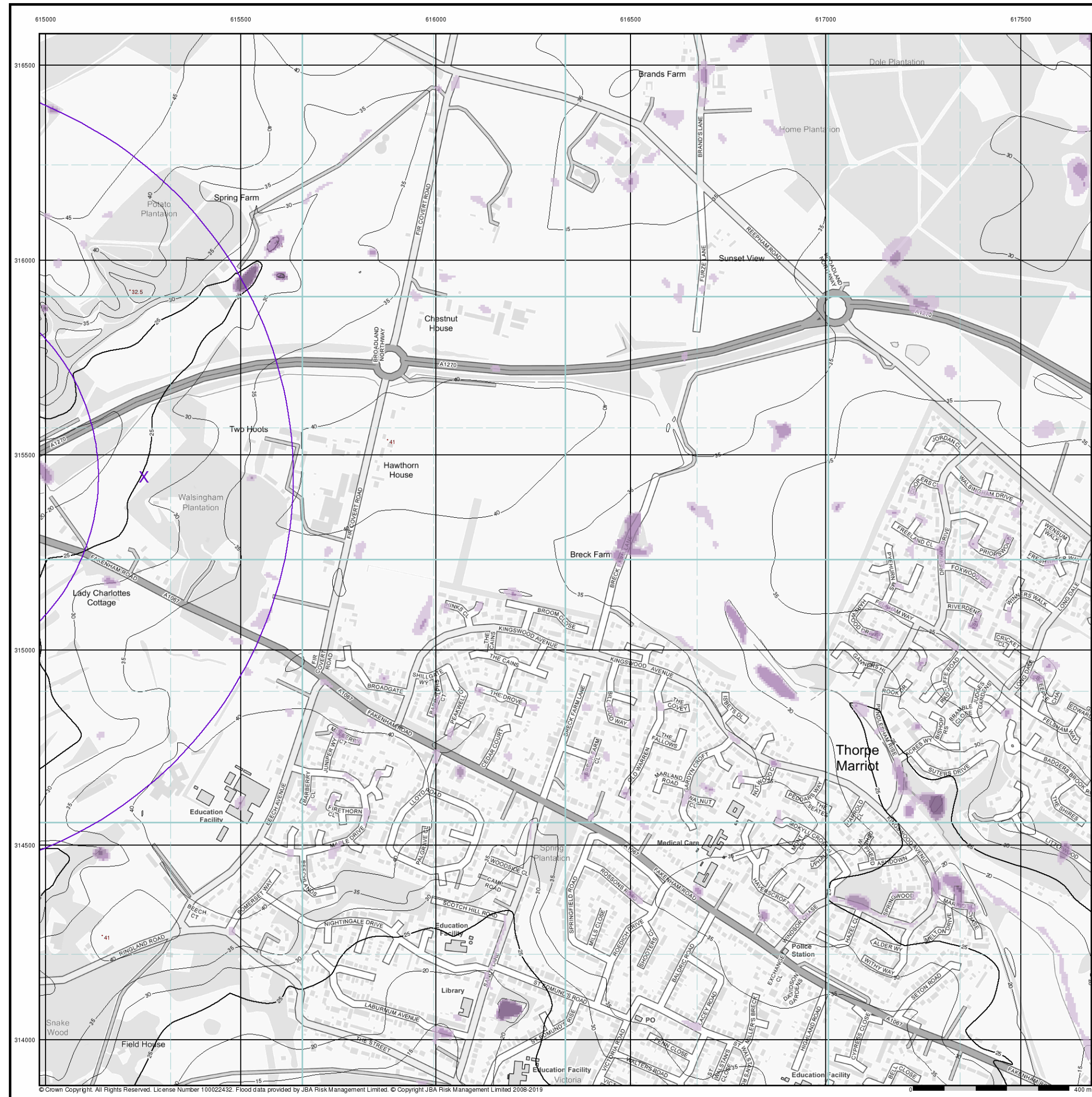
Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

Site at 613969,315908

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JBA 200 Year Return Flood Map (Undeferred) (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

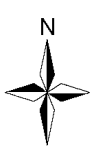
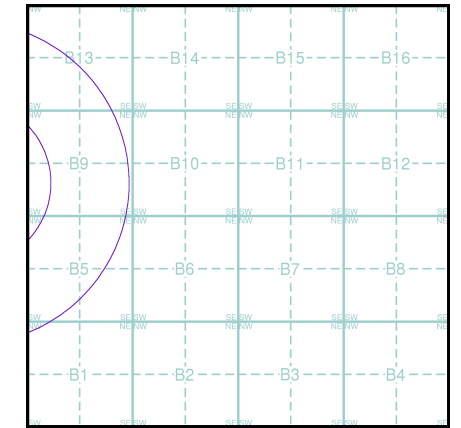
Modelled Flood Depth

Pluvial Depth	Fluvial Depth	Coastal Depth
0.1m	0.01m - 0.05m	0.01m - 0.05m
0.1m - 0.3m	0.05m - 0.1m	0.05m - 0.1m
0.3m - 1m	0.1m - 0.3m	0.1m - 0.3m
>1m	0.3m - 1m	0.3m - 1m
	>1m	>1m

Contours (height in metres)

- Standard Contour 105
- Master Contour 100
- Spot Height 107.8
- MLW Mean Low Water
- MHW Mean High Water

JBA 200 Year Return Flood Map (Undeferred) - Slice B



Order Details

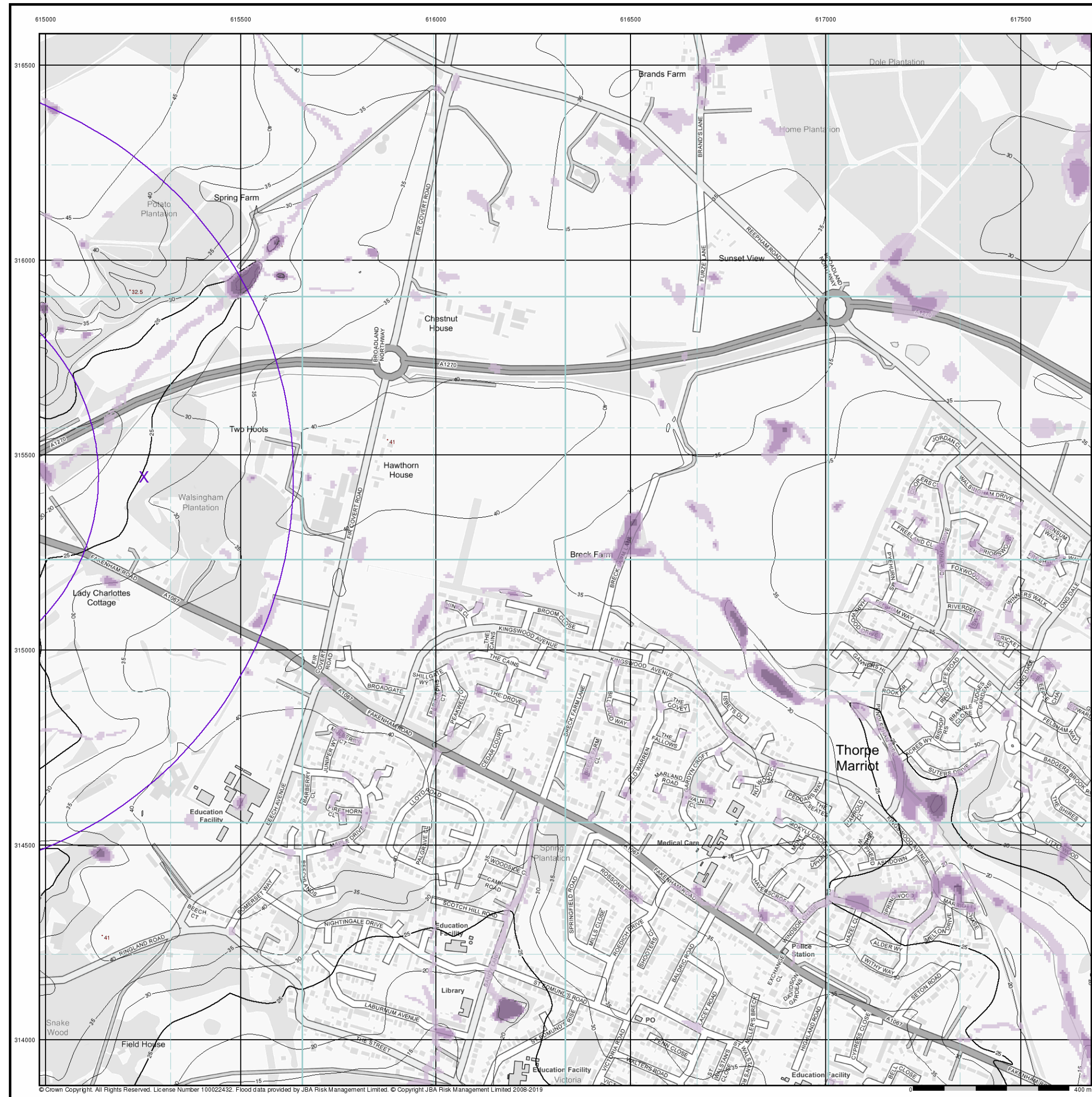
Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
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JBA 1000 Year Return Flood Map (Undeferred) (1:10,000)

General

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- Specified Buffer(s)
- Bearing Reference Point

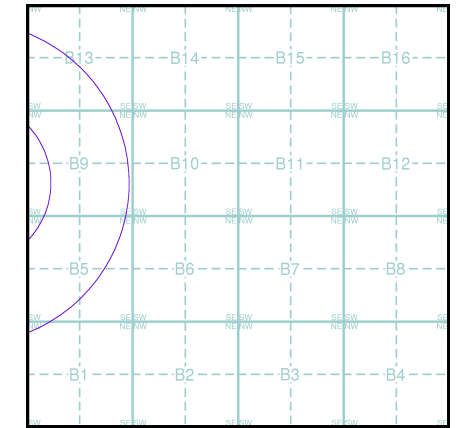
Modelled Flood Depth

Pluvial Depth	Fluvial Depth	Coastal Depth
0.1m	0.01m - 0.05m	0.01m - 0.05m
0.1m - 0.3m	0.05m - 0.1m	0.05m - 0.1m
0.3m - 1m	0.1m - 0.3m	0.1m - 0.3m
>1m	0.3m - 1m	0.3m - 1m
	>1m	>1m

Contours (height in metres)

- Standard Contour 105
- Master Contour 100
- Spot Height 167.8
- MLW Mean Low Water
- MHW Mean High Water

JBA 1000 Year Return Flood Map (Undeferred) - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
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JBA Canal Failure Map (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

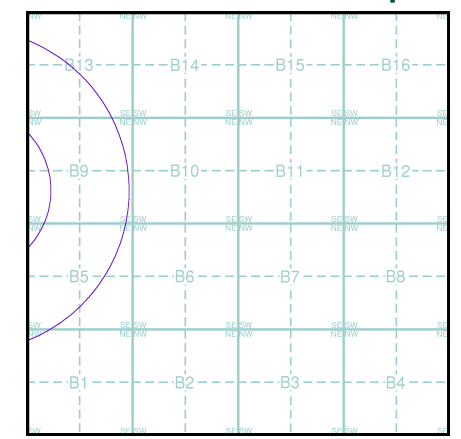
Flood Data

- Canal Failure
- Coverage

Contours (height in metres)

- Standard Contour 105
- Master Contour 100
- Spot Height *167.8
- MLW Mean Low Water
- MHW Mean High Water

JBA Canal Failure Flood Map - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details

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EANRW Surface Water 30 Year Return Depth Map (1:10,000)

General
 Specified Site (pink circle) Specified Buffer(s) (purple circle) Bearing Reference Point (X)

Surface Water Depth

0 - 0.15m
0.15 - 0.30m
0.30 - 0.60m
0.60 - 0.90m
0.90 - 1.20m
> 1.20m

Contours (height in metres)

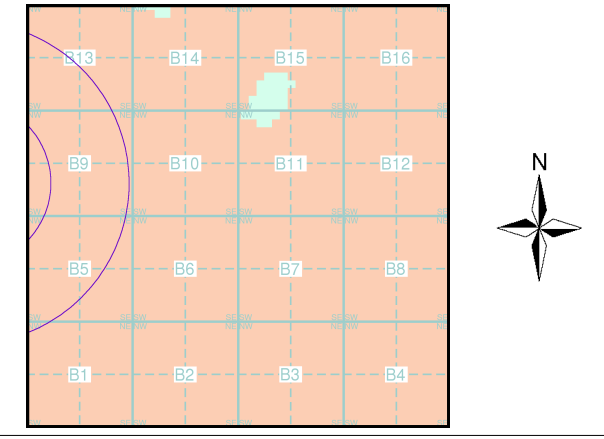
Standard Contour: 105, 100, 95
 Master Contour: 100
 Spot Height: *167.8

MLW Mean Low Water
 MHW Mean High Water

Suitability
 See the suitability map below

National to county	Street to parcels of land
County to town	Property
Town to street	

EANRW Suitability Map - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details
 Site at 613969,315908

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E/ANRW Surface Water 100 Year Return Depth Map

General
 Specified Site (pink dot) Specified Buffer(s) (purple outline) Bearing Reference Point (X)

Surface Water Depth

0 - 0.15m
0.15 - 0.30m
0.30 - 0.60m
0.60 - 0.90m
0.90 - 1.20m
> 1.20m

Contours (height in metres)

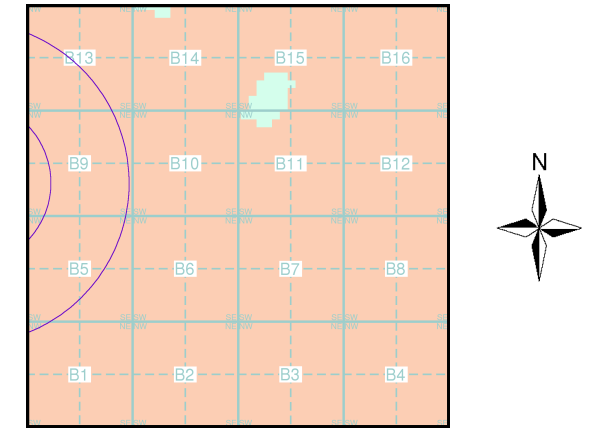
Standard Contour: 105, 100, 95
 Master Contour: 100
 Spot Height: *167.8

MLW Mean Low Water
 MHW Mean High Water

Suitability
 See the suitability map below

National to county	Street to parcels of land
County to town	Property
Town to street	

E/ANRW Suitability Map - Slice B

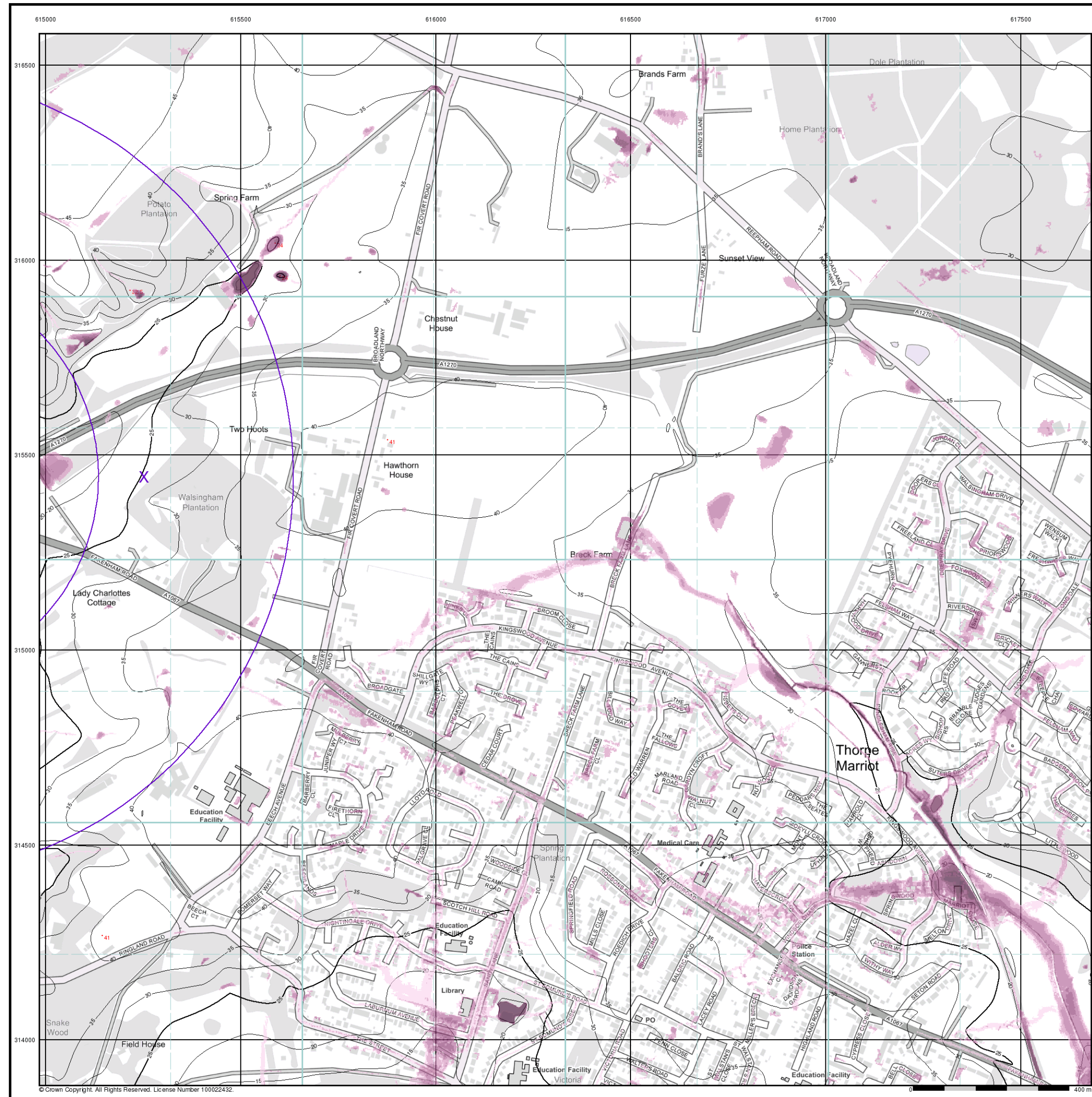


Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

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E/ANRW Surface Water 1000 Year Return Depth Map (1:10,000)

General
 Specified Site (purple X) Specified Buffer(s) (purple outline) Bearing Reference Point (X)

Surface Water Depth

0 - 0.15m
0.15 - 0.30m
0.30 - 0.60m
0.60 - 0.90m
0.90 - 1.20m
> 1.20m

Contours (height in metres)

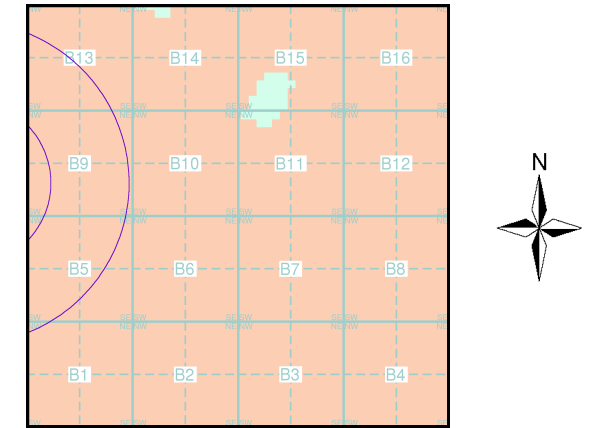
Standard Contour: 105, 100, 95
 Master Contour: 100
 Spot Height: *167.8

MLW Mean Low Water
 MHW Mean High Water

Suitability
 See the suitability map below

National to county	Street to parcels of land
County to town	Property
Town to street	

E/ANRW Suitability Map - Slice B



Order Details

Order Number: 192638994_1_1
 Customer Ref: NWL Line 5
 National Grid Reference: 615250, 315440
 Slice: B
 Site Area (Ha): 9.82
 Search Buffer (m): 1000

Site Details
 Site at 613969,315908

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EANRW Surface Water 30 Year Return Velocity and Flow Direction Map (1:10,000)

General
 Specified Site (pink circle) Specified Buffer(s) (purple outline) Bearing Reference Point (purple X)

Surface Water Velocity and Direction

0.00 - 0.25m/s	Flow Direction at maximum velocity (arrow)
0.25 - 0.50m/s	
0.50 - 1.00m/s	
1.00 - 2.00m/s	
> 2.00m/s	

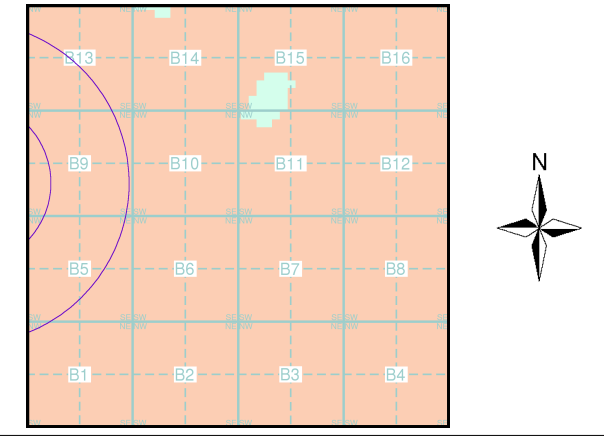
Contours (height in metres)

Standard Contour (105, 100, 95)	MLW (Mean Low Water)
Master Contour	MHW (Mean High Water)
Spot Height (*167.8)	

Suitability
 See the suitability map below

National to county (light green)	Street to parcels of land (pink)
County to town (orange)	Property (yellow)
Town to street (blue)	

EANRW Suitability Map - Slice B



Order Details

Order Number:	192638994_1_1
Customer Ref:	NWL Line 5
National Grid Reference:	615250, 315440
Slice:	B
Site Area (Ha):	9.82
Search Buffer (m):	1000

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EANRW Surface Water 100 Year Return Velocity and Flow Direction Map (1:10,000)

General
 Specified Site (purple line) Specified Buffer(s) (purple circle) Bearing Reference Point (X)

Surface Water Velocity and Direction

0.00 - 0.25m/s	Flow Direction at maximum velocity (arrow)
0.25 - 0.50m/s	
0.50 - 1.00m/s	
1.00 - 2.00m/s	
> 2.00m/s	

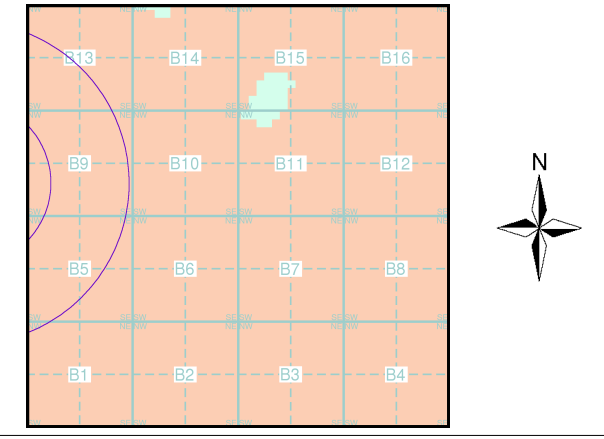
Contours (height in metres)

Standard Contour (105, 100, 95)	MLW (Mean Low Water)
Master Contour	MHW (Mean High Water)
Spot Height (*167.8)	

Suitability
 See the suitability map below

National to county (light green)	Street to parcels of land (pink)
County to town (orange)	Property (yellow)
Town to street (blue)	

EANRW Suitability Map - Slice B



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EANRW Surface Water 1000 Year Return Velocity and Flow Direction Map (1:10,000)

General
 Specified Site (pink circle) Specified Buffer(s) (purple outline) Bearing Reference Point (X)

Surface Water Velocity and Direction

0.00 - 0.25m/s	Flow Direction at maximum velocity (arrow)
0.25 - 0.50m/s	
0.50 - 1.00m/s	
1.00 - 2.00m/s	
> 2.00m/s	

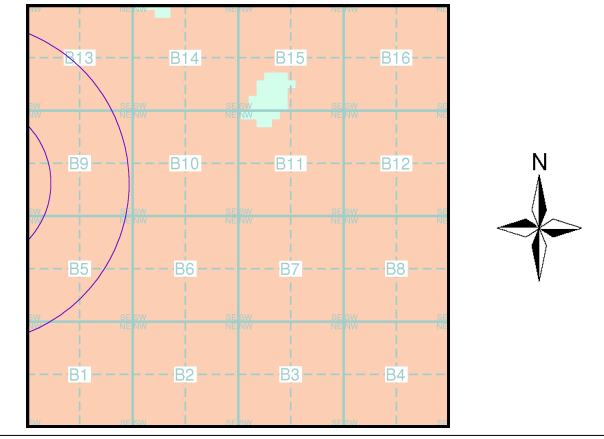
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Spot Height: *167.8	

Suitability
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County to town (orange)	Property (yellow)
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EANRW Suitability Map - Slice B



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E/NRW Surface Water 30 Year Return Hazard Rating Map (1:10,000)

General
 Specified Site (pink circle) Specified Buffer(s) (purple line) Bearing Reference Point (X)

Surface Water Hazard Rating

- Low (0.5 – 0.75)
- Moderate (0.75 – 1.25)
- Significant (1.25 – 2.0)
- Extreme (>2.0)

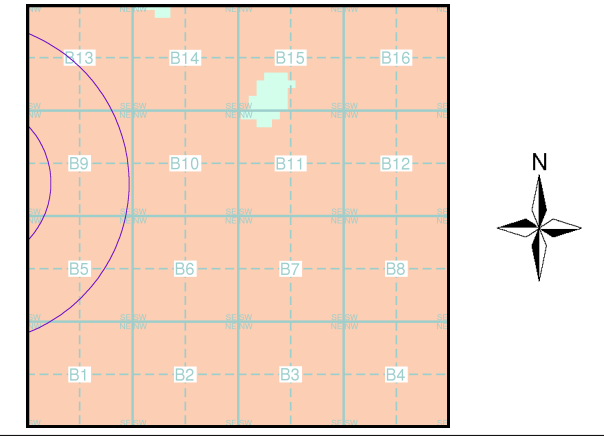
Contours (height in metres)

- Standard Contour: 105, 100, 95
- Master Contour: 105, 100, 95
- Spot Height: *167.8
- MLW: Mean Low Water
- MHW: Mean High Water

Suitability
 See the suitability map below

- National to county (light green)
- County to town (orange)
- Town to street (blue)
- Street to parcels of land (pink)
- Property (yellow)

E/NRW Suitability Map - Slice B



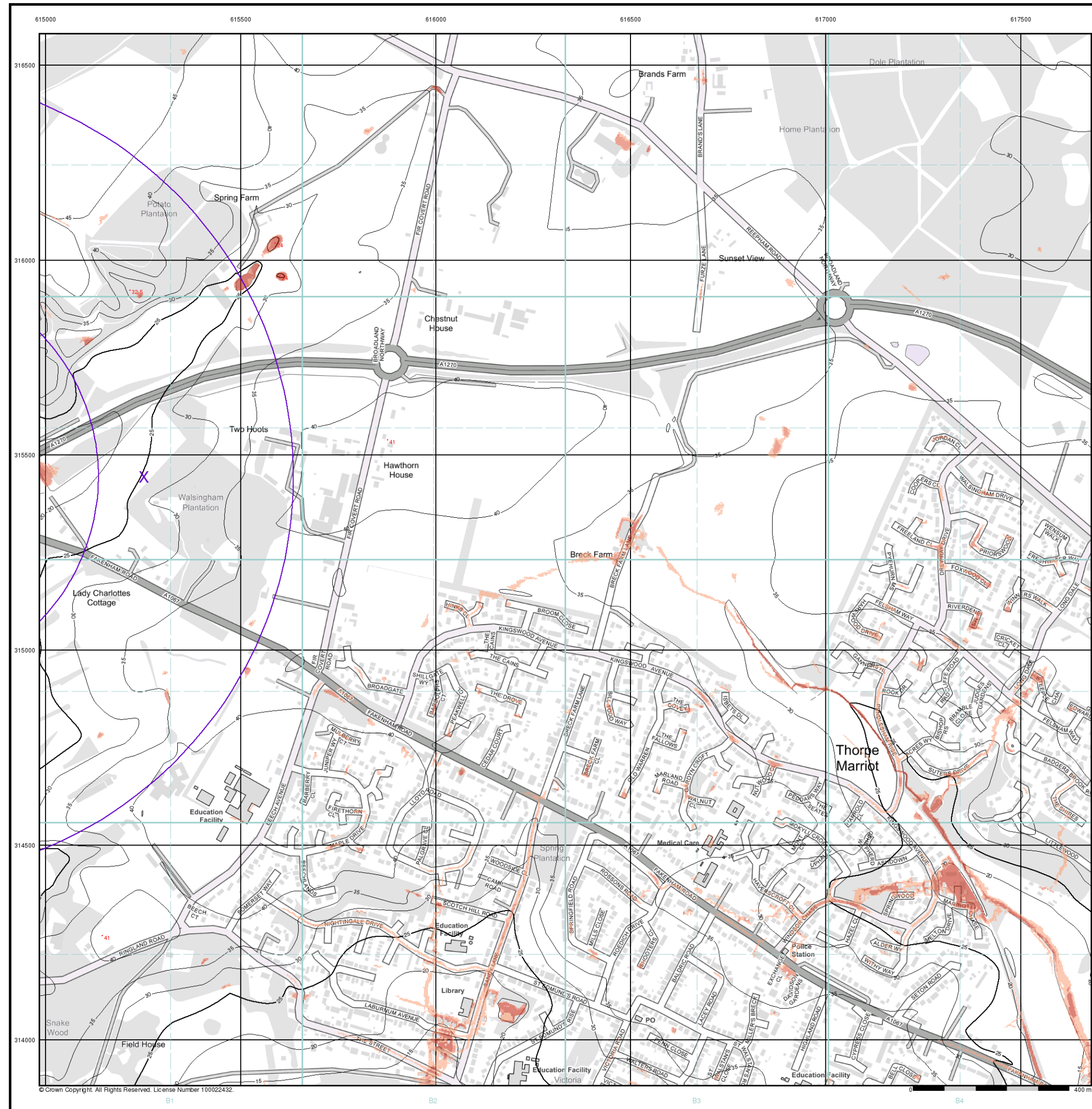
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E/NRW Surface Water 100 Year Return Hazard Rating Map (1:10,000)

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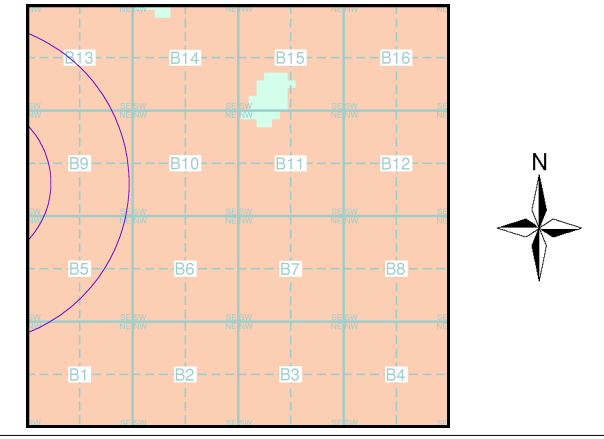
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- Master Contour: 105, 100, 95
- Spot Height: *167.8
- MLW: Mean Low Water
- MHW: Mean High Water

Suitability
 See the suitability map below

- National to county (light green)
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- Town to street (blue)
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E/NRW Suitability Map - Slice B

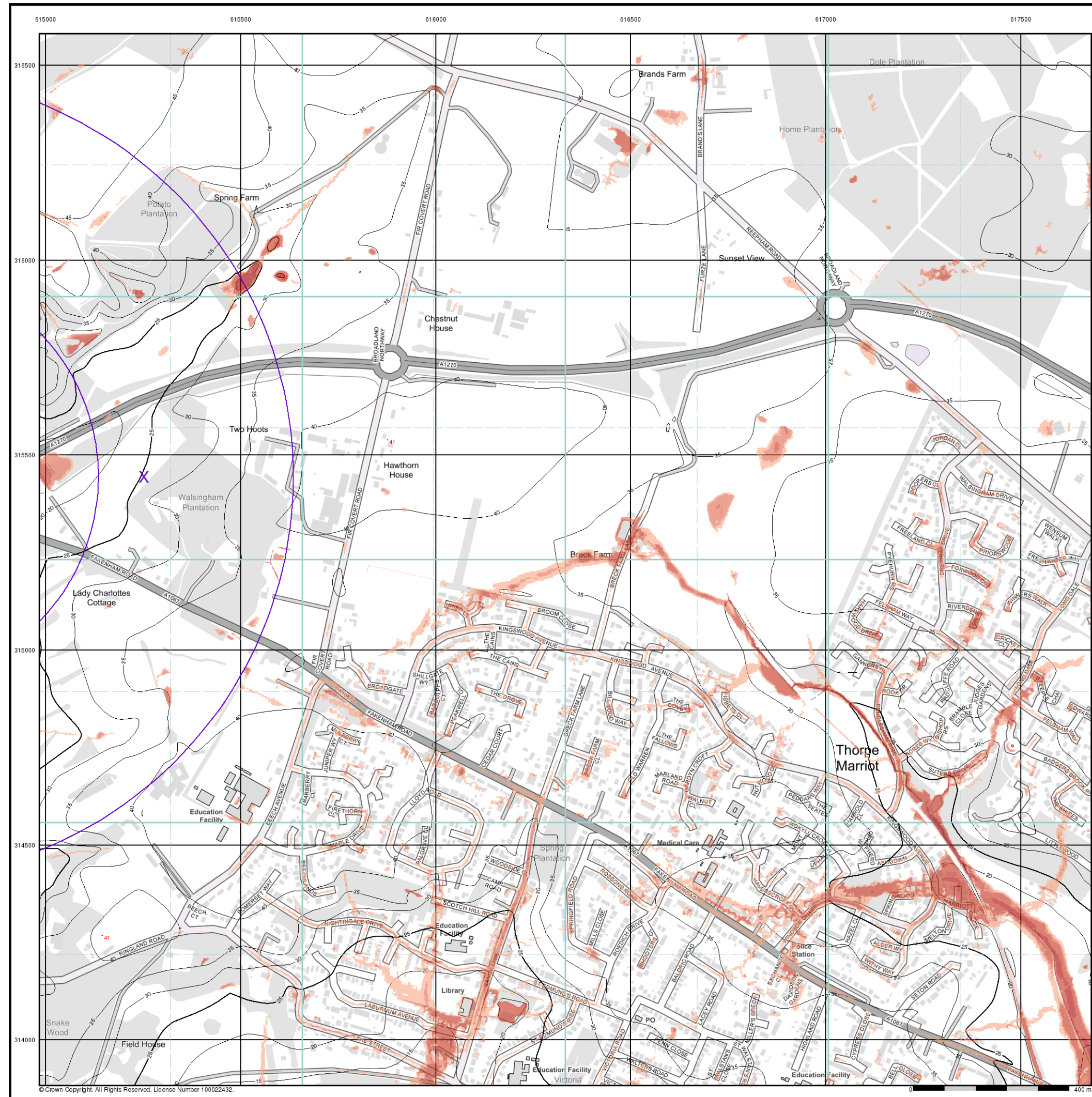


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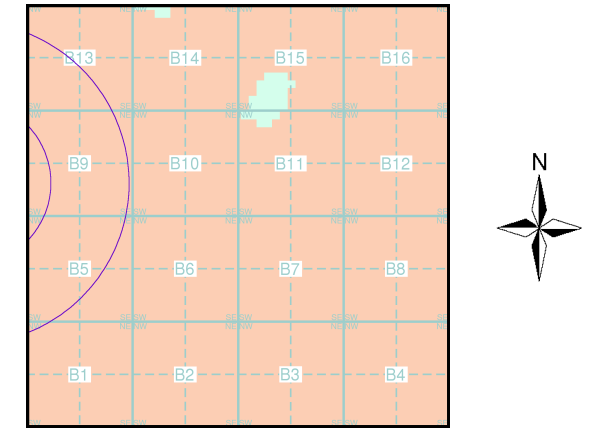
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