



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

6.24, Environmental Statement, Volume 3, Ecology and Biodiversity Figures 9.1, 9.2, 9.3 and 9.4

The Infrastructure Planning (Applications: Prescribed Forms and Procedure)

Regulations 2009, regulation 5(2)(a)

Planning Act 2008

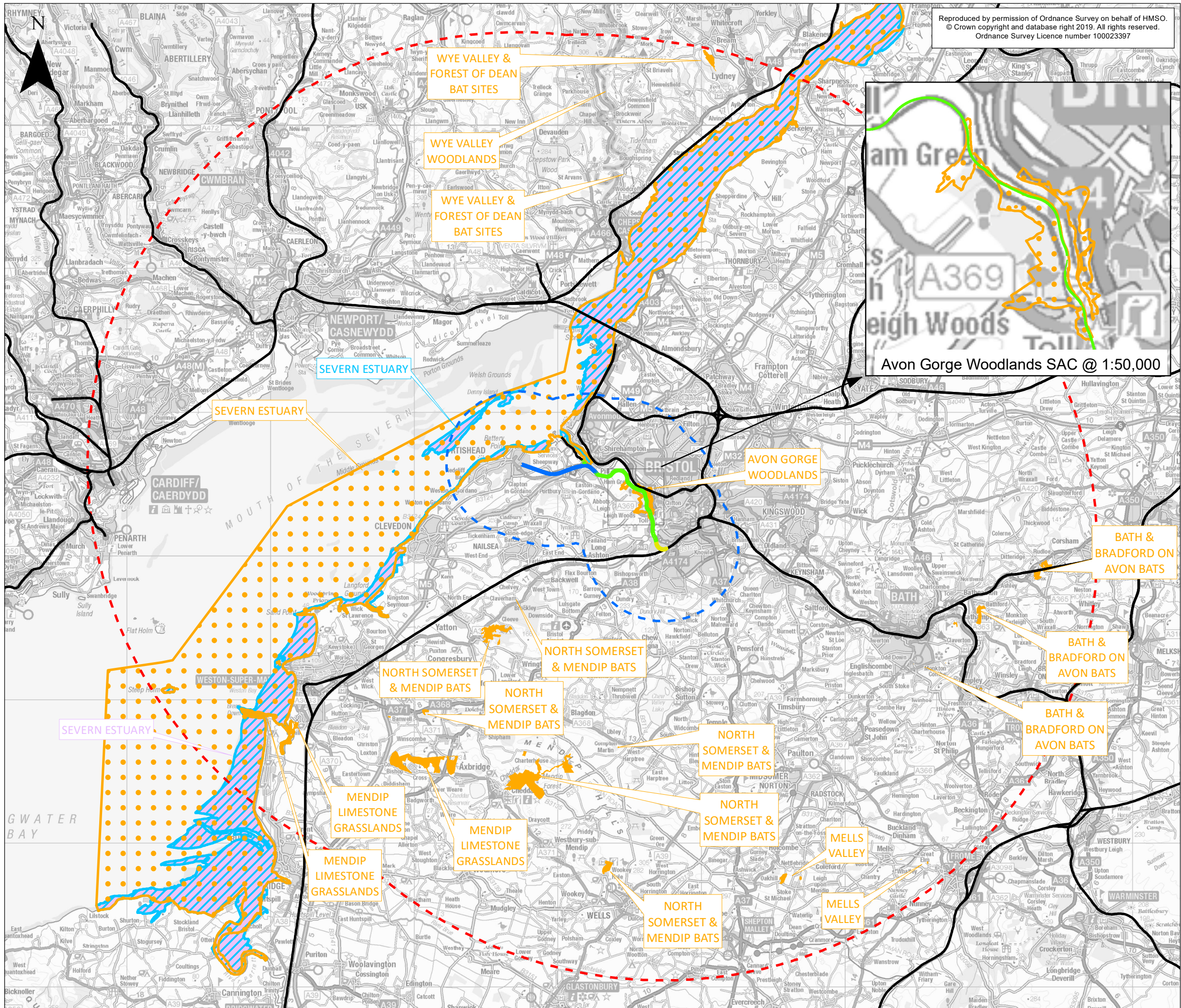
Author: CH2M

Date: November 2019

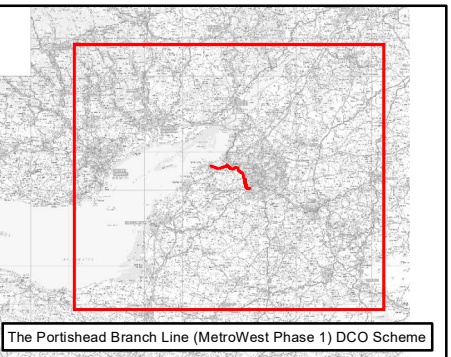


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KEY

- Radius 5km
- Radius 30km

Existing Railway
Existing Railway Line

Portishead Branch Line
The Nationally Significant Infrastructure Project (NSIP) Works
The Associated Development Works
Section in Tunnel

Other Works
Network Rail Permitted Development Rights

Internationally Designated Sites
Special Area of Conservation (SAC)
Special Area of Conservation Bat Sites (SAC)
Special Protection Area (SPA)
Ramsar

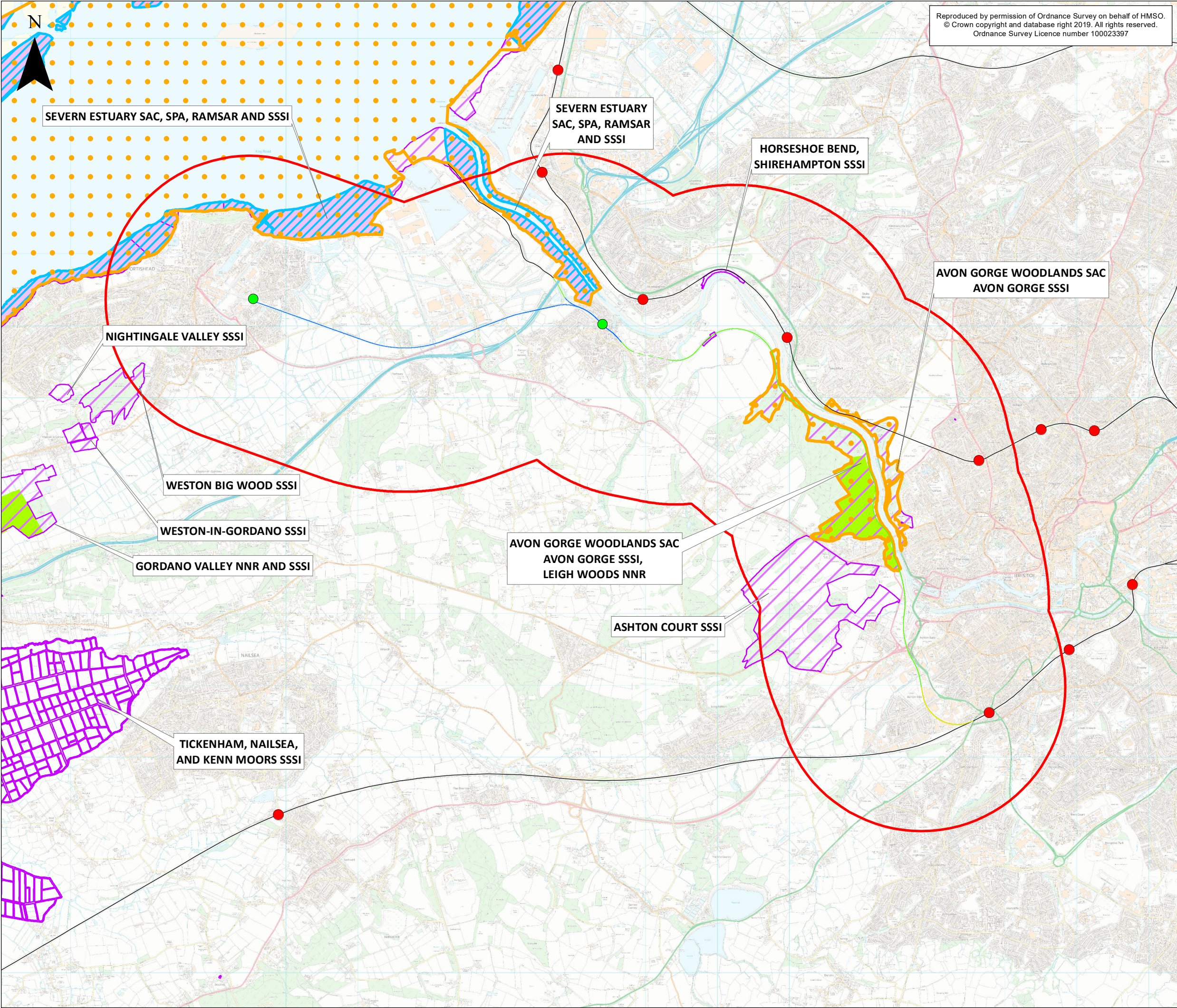
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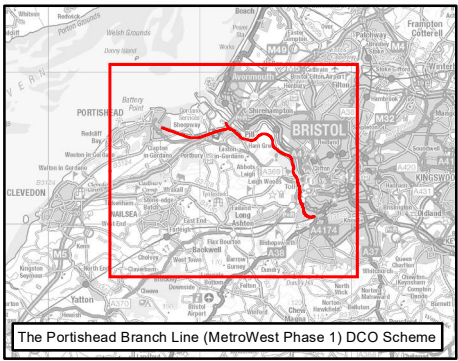
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Project : Portishead Branch Line (MetroWest Phase 1)	
Drawing : Figure 9.1 Internationally Designated Sites APFP Regulation 5(2)(a)	
Drawn By : Martin Costello	Date: 28/10/2019
Checked By : Claire Williams	Date: 28/10/2019
Approved By : Carolyn Francis	Date: 28/10/2019
Drawing No. : 674946 -001-011-A	Revision ES-A
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KEY

Existing Railway

- Existing Railway Line
- Existing Railway Station

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works
- The Associated Development
- Section in Tunnel
- New Station

Other Works

- Network Rail Permitted Development Rights

Designated Sites

- Special Area of Conservation
- Special Protection Area (SPA)
- Ramsar
- Site of Special Scientific Interest (SSSI)
- National Nature Reserves (NNR)



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Project :

Portishead Branch Line
(MetroWest Phase 1)

Drawing :

Figure 9.2
Statutory Designated Sites
APFP Regulation 5(2)(a)

Drawn By : Martin Costello Date: 28/10/2019

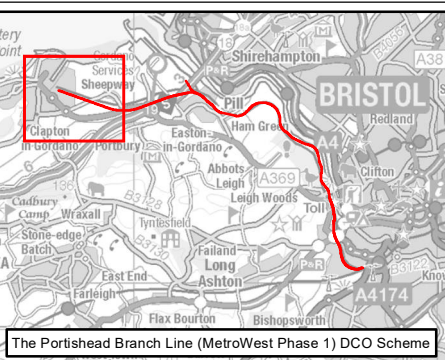
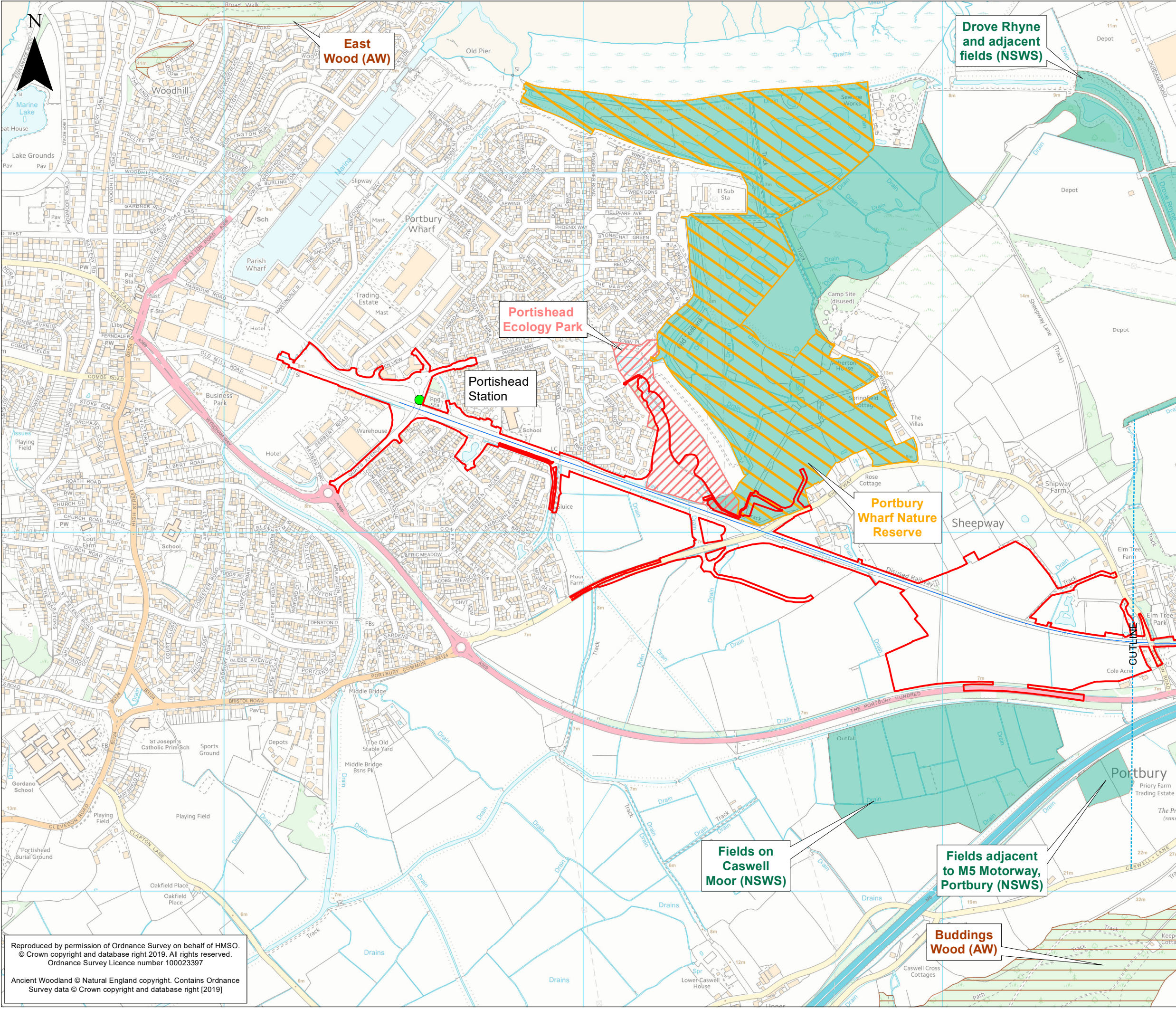
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Approved By : Carolyn Francis Date: 28/10/2019

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KEY

- Order Limits
- Existing Railway Line
- Existing Railway Station
- Portishead Branch Line**
 - The Nationally Significant Infrastructure Project (NSIP) Works
 - The Associated Development Works
 - Section in Tunnel
 - New Station
- Other Works**
 - Network Rail Permitted Development Rights
- Non-statutory Wildlife Sites**
 - Avon Wildlife Trust (AWT)
 - Bristol Wildlife Network Site (BWNS)
 - Portishead Ecology Park
 - North Somerset Wildlife Site (NSWS)
 - Parish Council Site
 - Portbury Wharf Nature Reserve
 - Site of Nature Conservation Interest (SNCI)
- Ancient Woodland**
 - Ancient Woodland - Natural England Inventory (AW)



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Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Figure 9.3: Non-Statutory wildlife sites and Ancient Woodland**
Sheet 1 of 5 - Portishead to Portbury
APFP Regulation 5(2)(a)

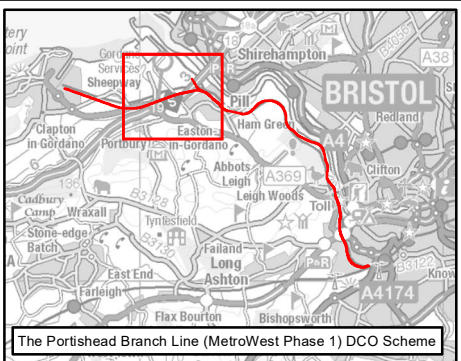
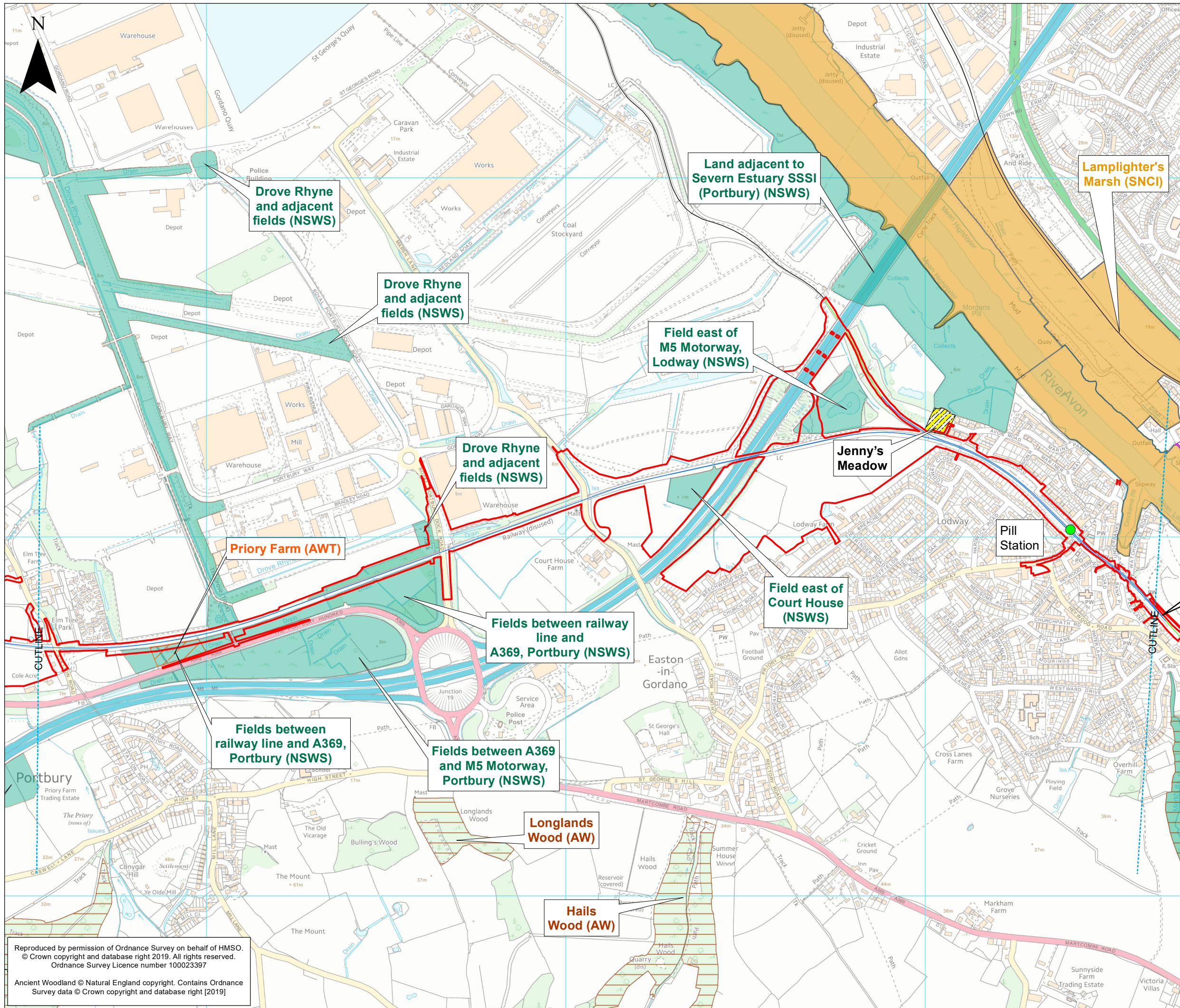
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Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Figure 9.3: Non-Statutory wildlife sites and Ancient Woodland
Sheet 2 of 5 - Portbury to Pill
APFP Regulation 5(2)(a)**

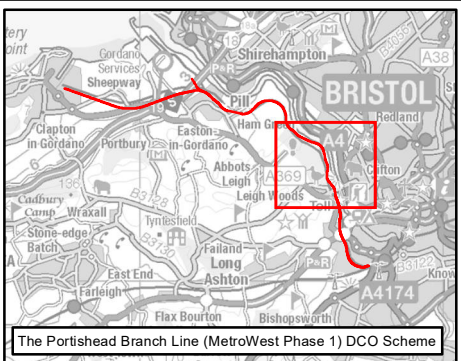
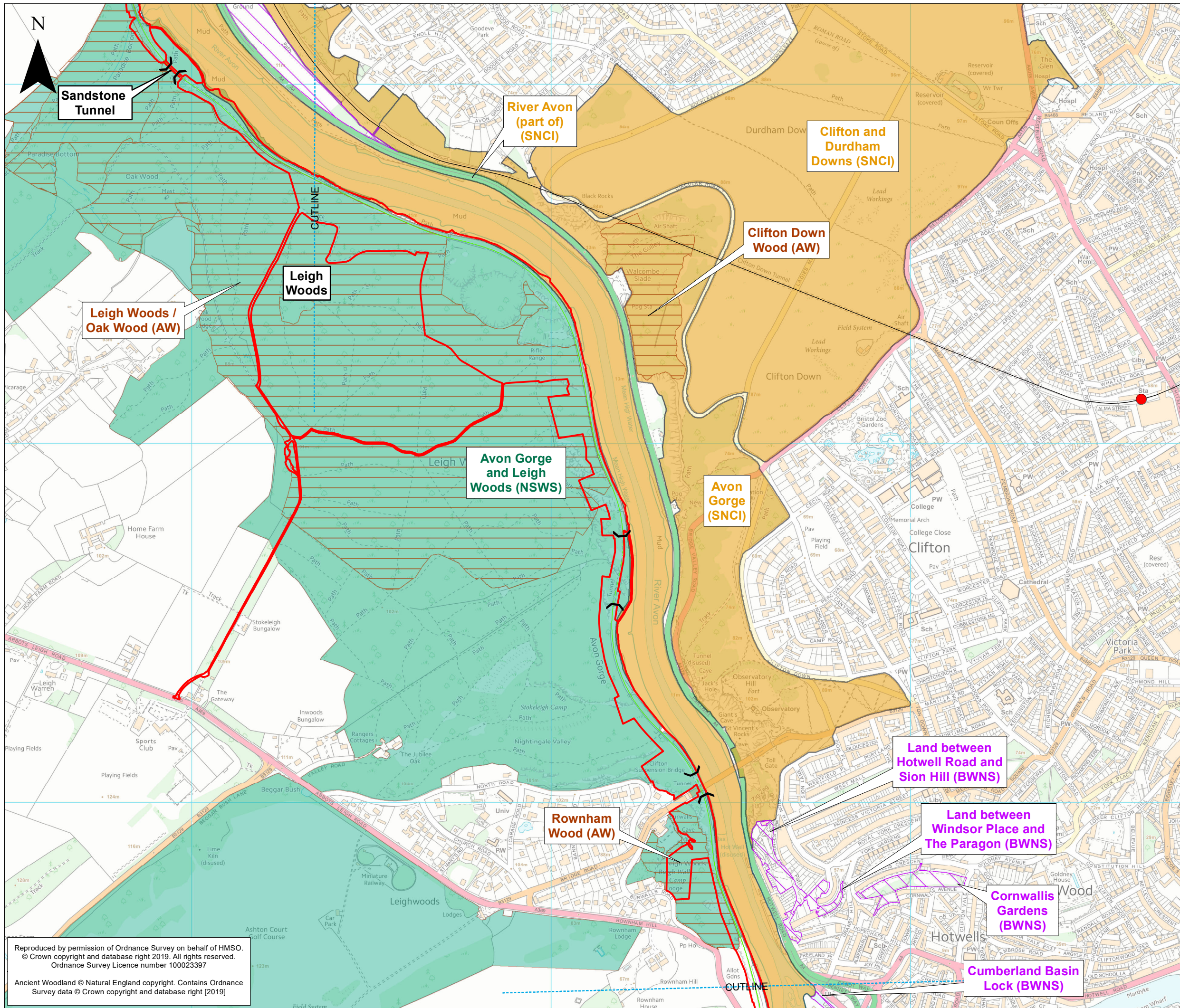
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- Ancient Woodland**
 - Ancient Woodland - Natural England Inventory (AW)



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Drawing: **Figure 9.3: Non-Statutory wildlife sites and Ancient Woodland**
Sheet 4 of 5 - Leigh Woods to Rownham Hill
APFP Regulation 5(2)(a)

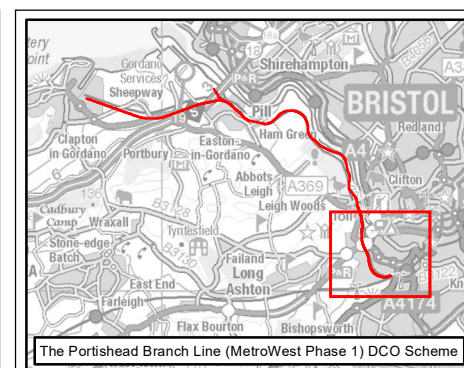
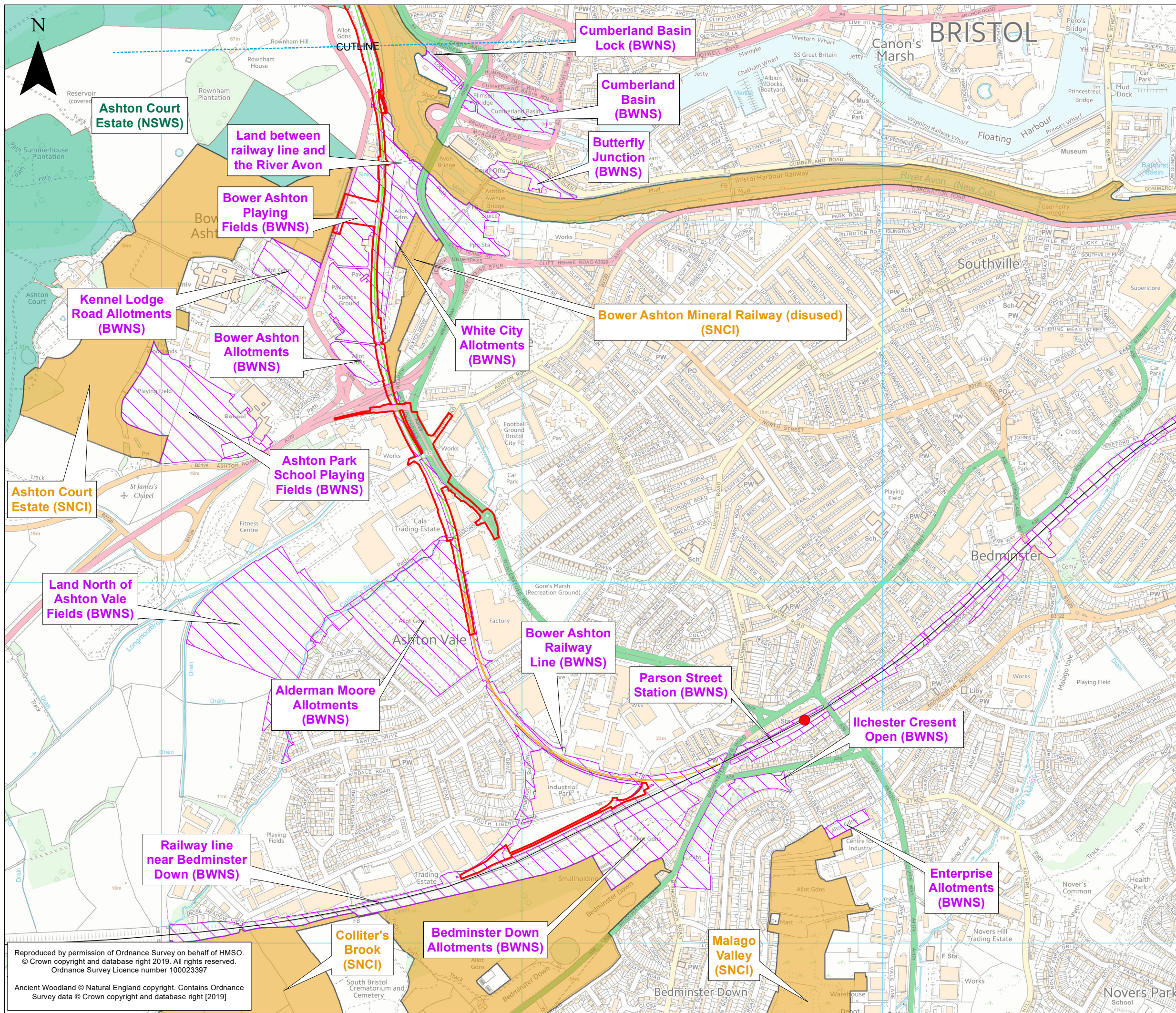
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KEY

Order Limits

Existing Railway

- Existing Railway Line
- Existing Railway Station

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works
- The Associated Development Works
- Section in Tunnel
- New Station

Other Works

- Network Rail Permitted Development Rights

Non-statutory Wildlife Sites

- Avon Wildlife Trust (AWT)
- Bristol Wildlife Network Site (BWNS)
- Portishead Ecology Park
- North Somerset Wildlife Site (NSWS)
- Parish Council Site
- Portbury Wharf Nature Reserve
- Site of Nature Conservation Interest (SNCI)

Ancient Woodland

- Ancient Woodland - Natural England Inventory (AW)

0 250 500
Metres

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Drawing: Figure 9.3: Non-Statutory wildlife sites and
Ancient Woodland
Sheet 5 of 5 - Rownham Hill to Ashton Junction
APFP Regulation 5(2)(a)

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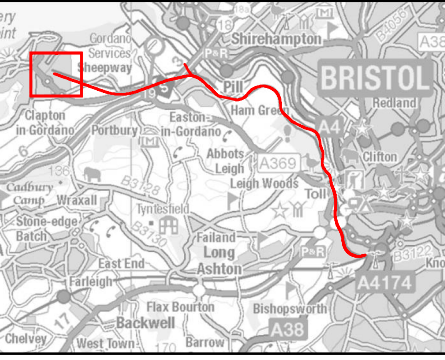
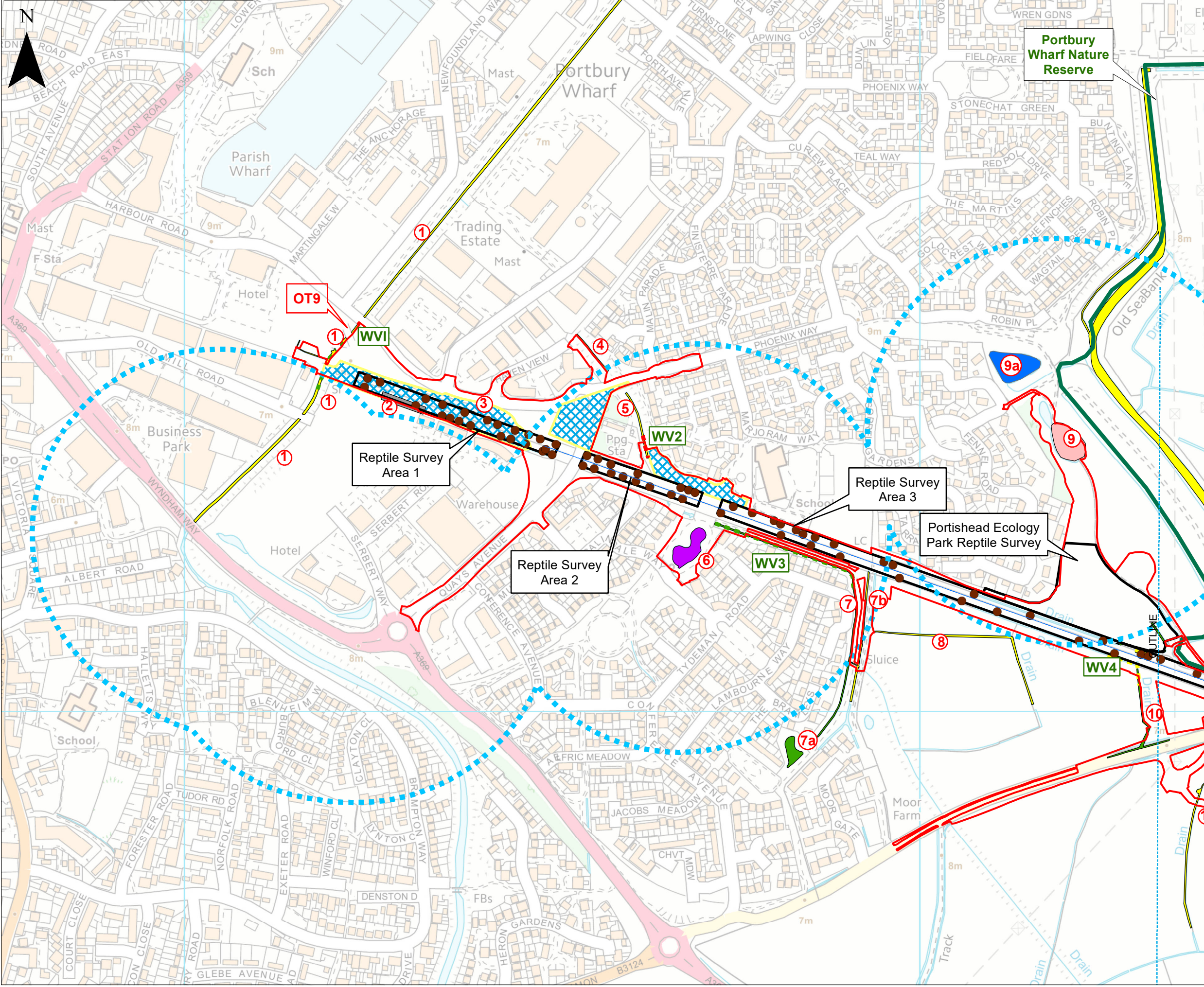
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KEY

- Order Limits
- Temporary Construction Compounds

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works

Reptile Survey Area

- Reptile Survey Area
- Reptile Survey Tiles

GCN Survey

- GCN Survey Waterbody Number

GCN Pond Locations

- GCN present
- Surveyed by others – no GCN
- GCN present eDNA only
- Surveyed - No GCN
- Not found / dried up
- Unsuitable or part-surveyed
- GCN Present 250m Buffer

Otter Survey

- Otter Survey Target Note

Water Vole Survey

- Water Vole Survey Waterbody Number

Water Vole Habitat Suitability

- WVHS 1 or 2, Unsuitable for Water Vole
- WVHS 3 or 4, Provide 'Sink' Habitat
- WVHS 5 or >, Support Water Vole

0 100 200 Metres

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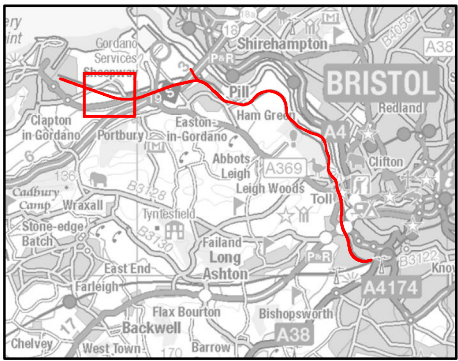
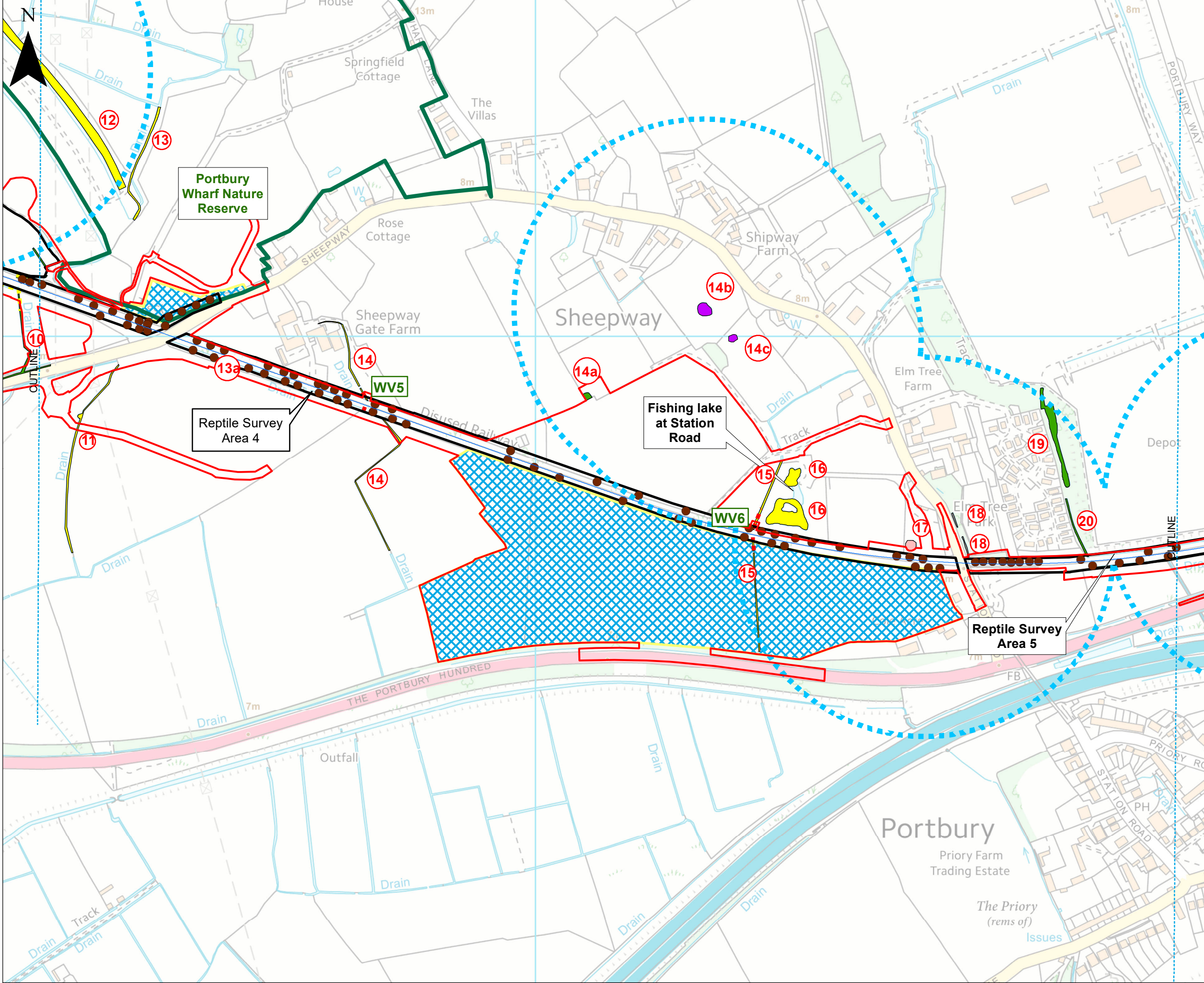
Drawing : Figure 9.4: Fauna Surveys
Sheet 1 of 11 - Portishead
APFP Regulation 5(2)(a)

Drawn By : Martin Costello **Date:** 29/10/2019
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KEY

- Order Limits
- Temporary Construction Compounds

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works

Reptile Survey Area

- Reptile Survey Area
- Reptile Survey Tiles

GCN Survey

- GCN Survey Waterbody Number

GCN Pond Locations

- GCN present
- GCN present eDNA only
- Surveyed - No GCN
- Not found / dried up
- Unsuitable or part-surveyed
- GCN Present 250m Buffer

Otter Survey

- OT1 Otter Survey Target Note

Water Vole Survey

- WV1 Water Vole Survey Waterbody Number

Water Vole Habitat Suitability

- WVHS 1 or 2, Unsuitable for Water Vole
- WVHS 3 or 4, Provide 'Sink' Habitat

0 100 200 Metres

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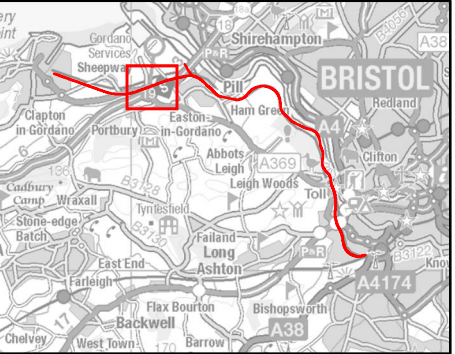
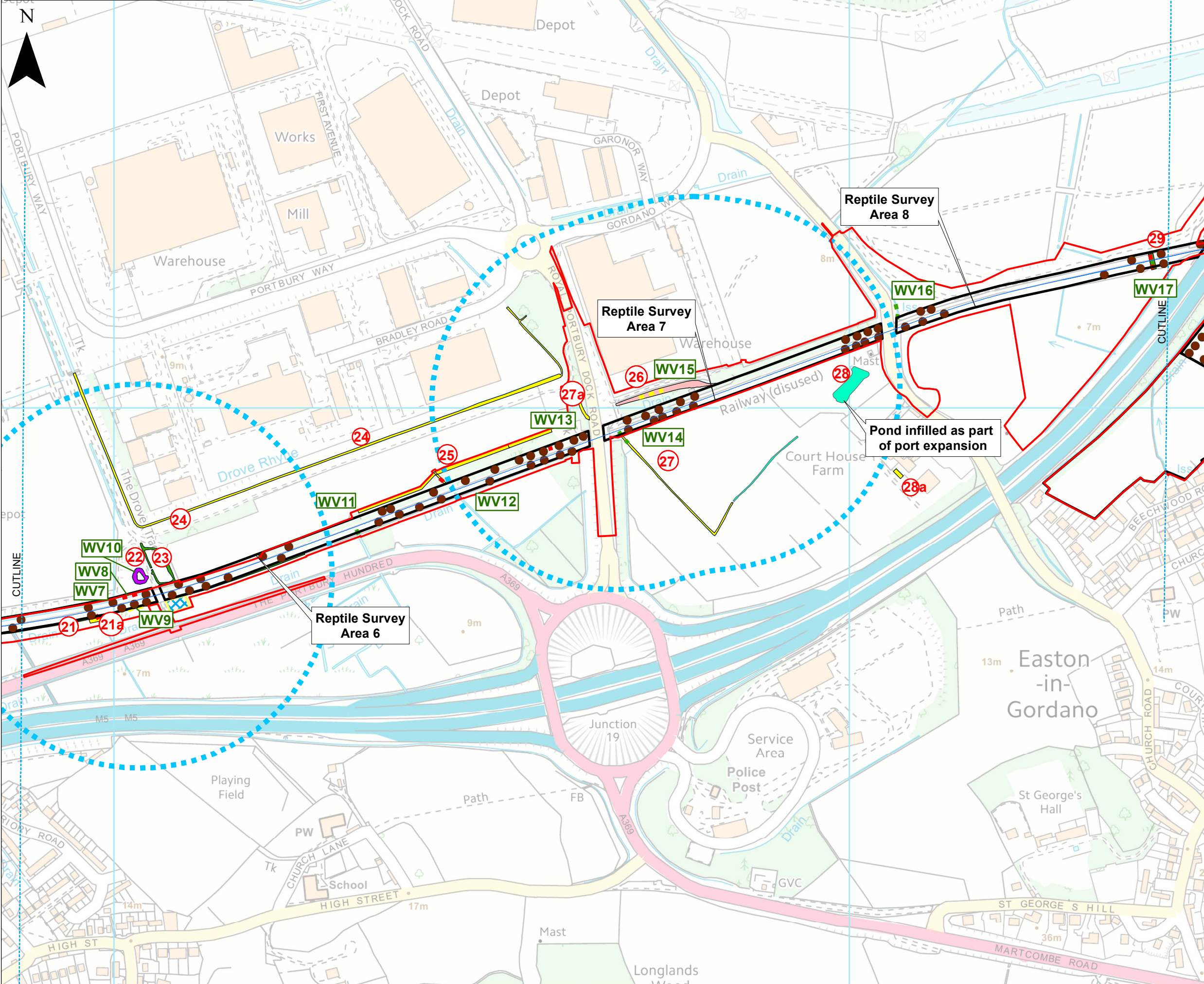
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Figure 9.4: Fauna Surveys
Sheet 2 of 11 - Sheepway
APFP Regulation 5(2)(a)

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KEY

- Order Limits
- Temporary Construction Compounds

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works

Reptile Survey Area

- Reptile Survey Area
- Reptile Survey Tiles

GCN Survey

- GCN Survey Waterbody Number

GCN Pond Locations

- GCN present
- Waterbody infilled
- GCN present eDNA only
- Surveyed - No GCN
- Unsuitable or part-surveyed
- GCN Present 250m Buffer

Otter Survey

- OT1 Otter Survey Target Note

Water Vole Survey

- WV1 Water Vole Survey Waterbody Number

Water Vole Habitat Suitability

- WVHS 1 or 2, Unsuitable for Water Vole
- WVHS 3 or 4, Provide 'Sink' Habitat
- WVHS 5 or >, Support Water Vole

0 100 200 Metres

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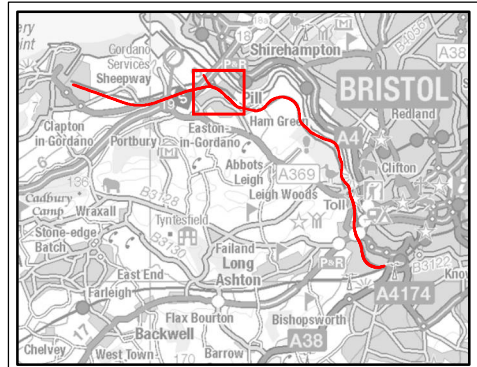
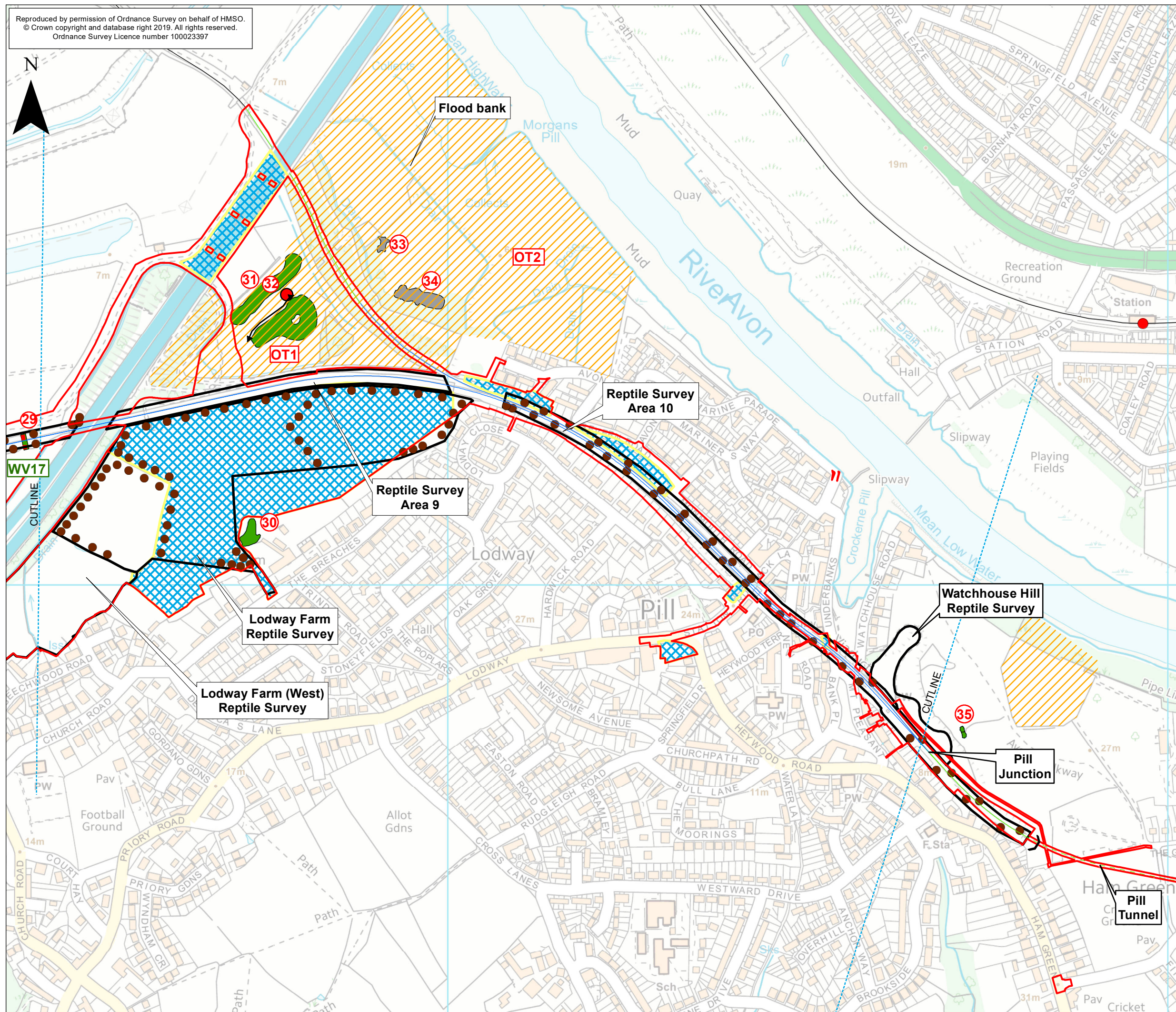
Project : **Portishead Branch Line (MetroWest Phase 1)**

Drawing : **Figure 9.4: Fauna Surveys Sheet 3 of 11 - Junction 19 APFP Regulation 5(2)(a)**

Drawn By : Martin Costello Date: 29/10/2019
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- Order Limits
- Temporary Construction Compounds

— The Nationally Significant Infrastructure Project (NSIP) Works

- The Associated Development Works
- - Section in Tunnel

↔ Mammal Pathway

 Reptile Survey Area
 Reptile Survey Tiles

① GCN Survey Waterbody Number

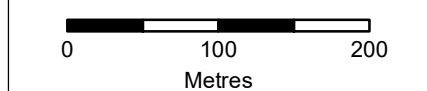
 Surveied - No GCN
 Not found / dried up

OT1 Otter Survey Target Note

-  Possible Otter lying up Site
 Habitat suitable for Otter

WV1 Water Vole Survey Waterbody Number

■ ■ WWS 1 or 2, Unsuitable for Water Vole



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Project :	Portishead Branch Line (MetroWest Phase 1)
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Drawing : Figure 9.4: Fauna Surveys
Sheet 4 of 11 - Pill
APFP Regulation 5(2)(a)

Drawn By : Martin Costello Date: 29/10/2019

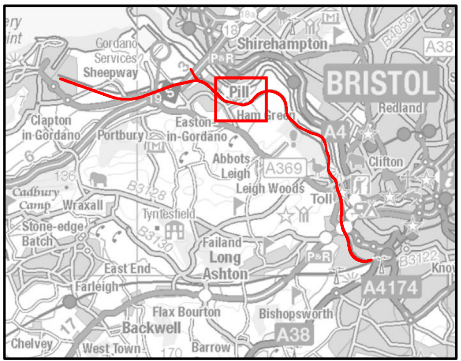
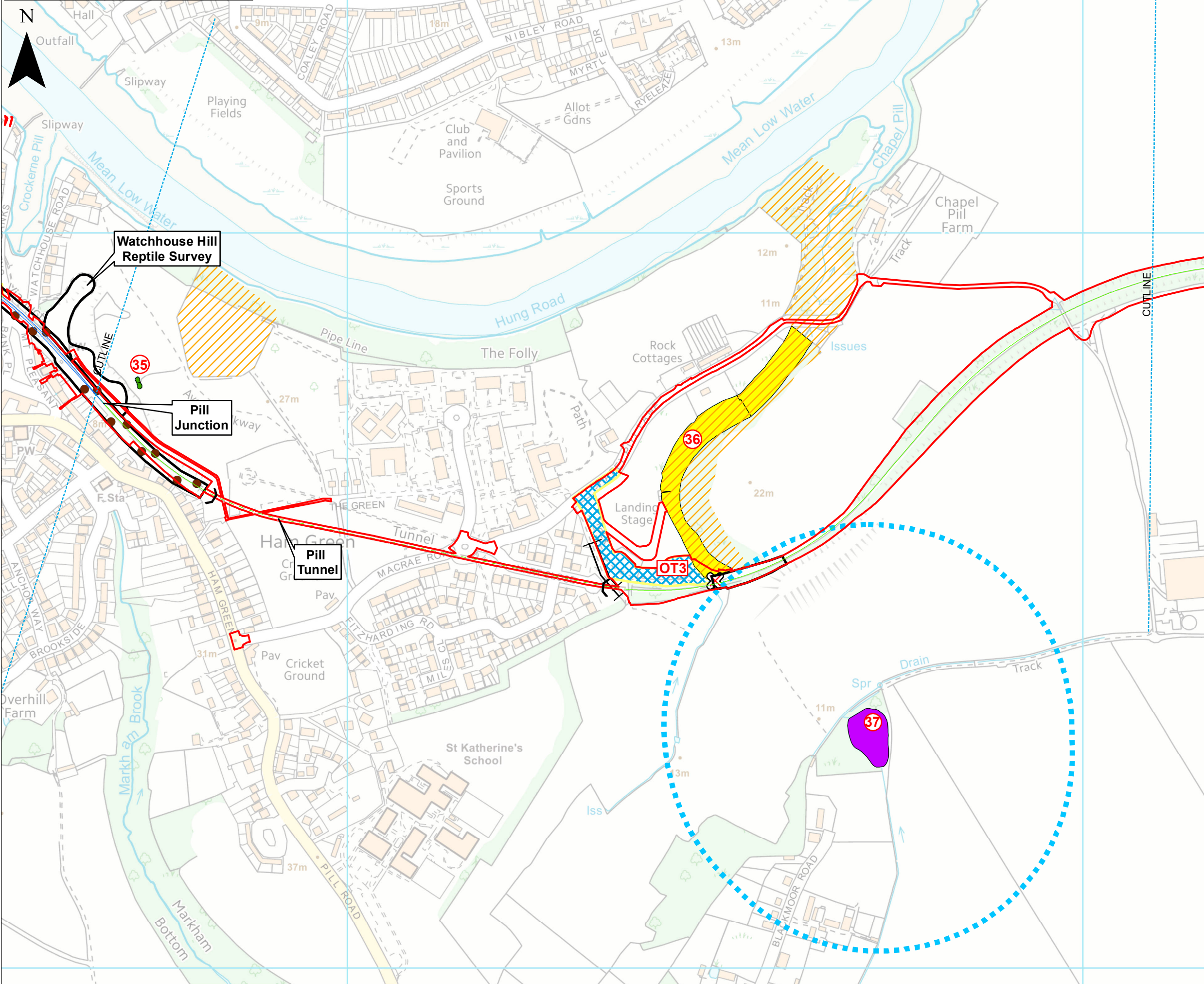
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KEY

- Order Limits
- Temporary Construction Compounds

Portishead Branch Line

- The Nationally Significant Infrastructure Project (NSIP) Works
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- Section in Tunnel

Reptile Survey Area

- Reptile Survey Area
- Reptile Survey Tiles

Dormouse Tube Survey Location

- Dormouse Tube Survey Location

GCN Survey

- GCN Survey Waterbody Number

GCN Pond Locations

- GCN present eDNA only
- Surveyed - No GCN
- Unsuitable or part-surveyed
- GCN Present 250m Buffer

Otter Survey

- OT1 Otter Survey Target Note
- OT1 Otter Spraint
- Habitat suitable for Otter

Water Vole Survey

- WV1 Water Vole Survey Waterbody Number

0 100 200 Metres

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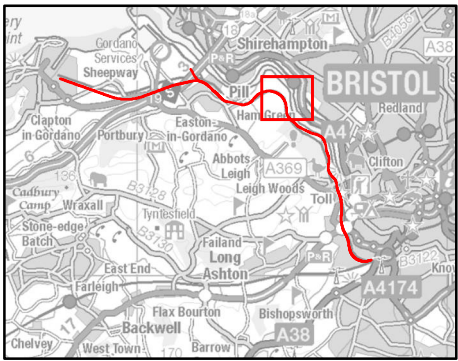
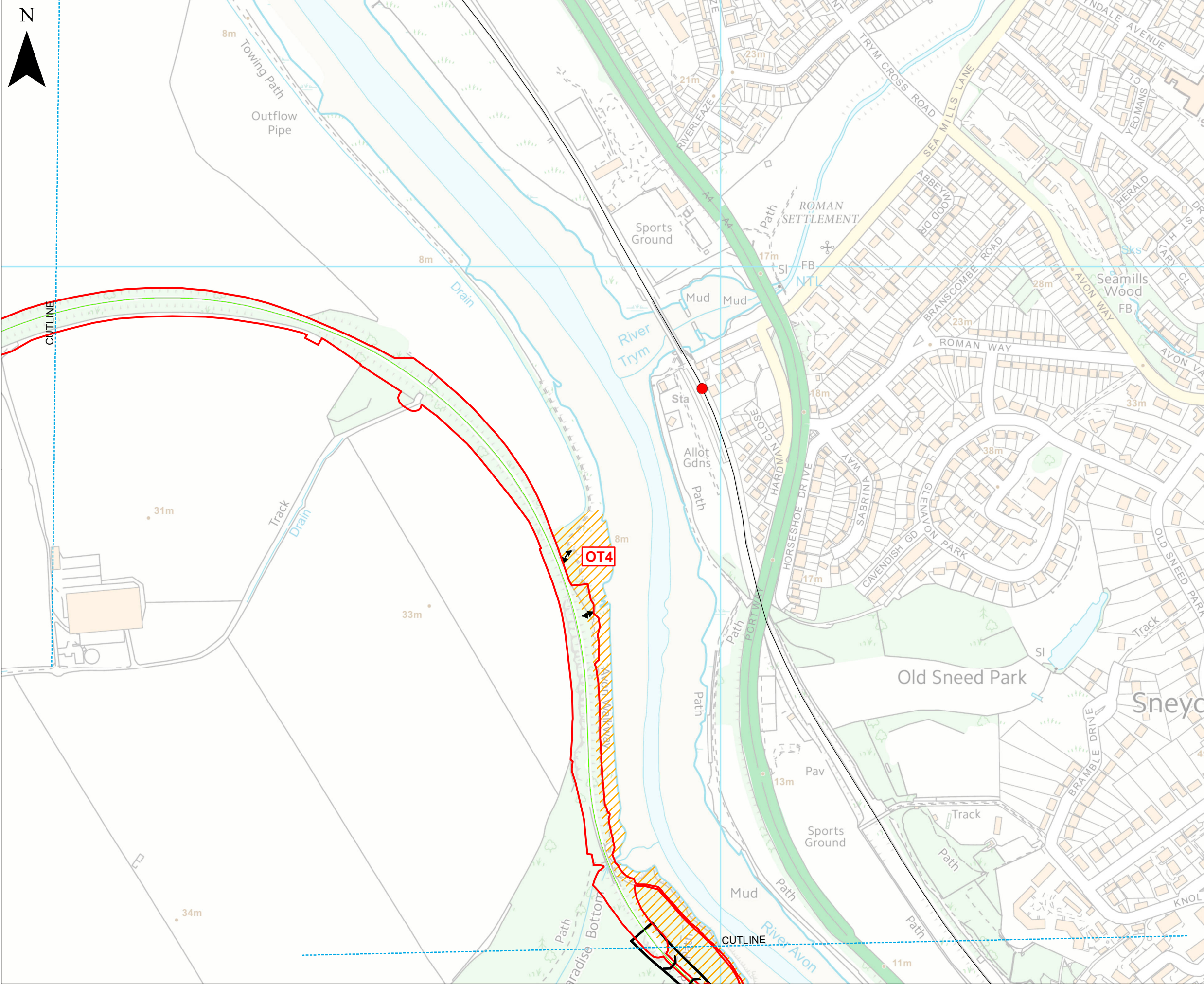
Drawing : Figure 9.4: Fauna Surveys
Sheet 5 of 11 - Ham Green
APFP Regulation 5(2)(a)

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- KEY**
- Order Limits
 - The Associated Development Works
 - Mammal Pathway**
 - Mammal Pathway
 - Reptile Survey Area**
 - Reptile Survey Area
 - GCN Survey**
 - 1 GCN Survey Waterbody Number
 - Otter Survey**
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 - Habitat suitable for Otter
 - Water Vole Survey**
 - WV1 Water Vole Survey Waterbody Number

0 100 200
Metres

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Bath & North East Somerset, Bristol, North Somerset and South Gloucestershire
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Geospatial
Burderop Park, Swindon, SN4 0QD
Tel: +44 (0)1793 812479 Fax: +44 (0)1793 812089
www.ch2m.com

Project : Portishead Branch Line (MetroWest Phase 1)

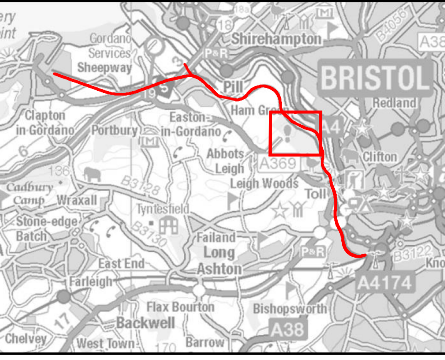
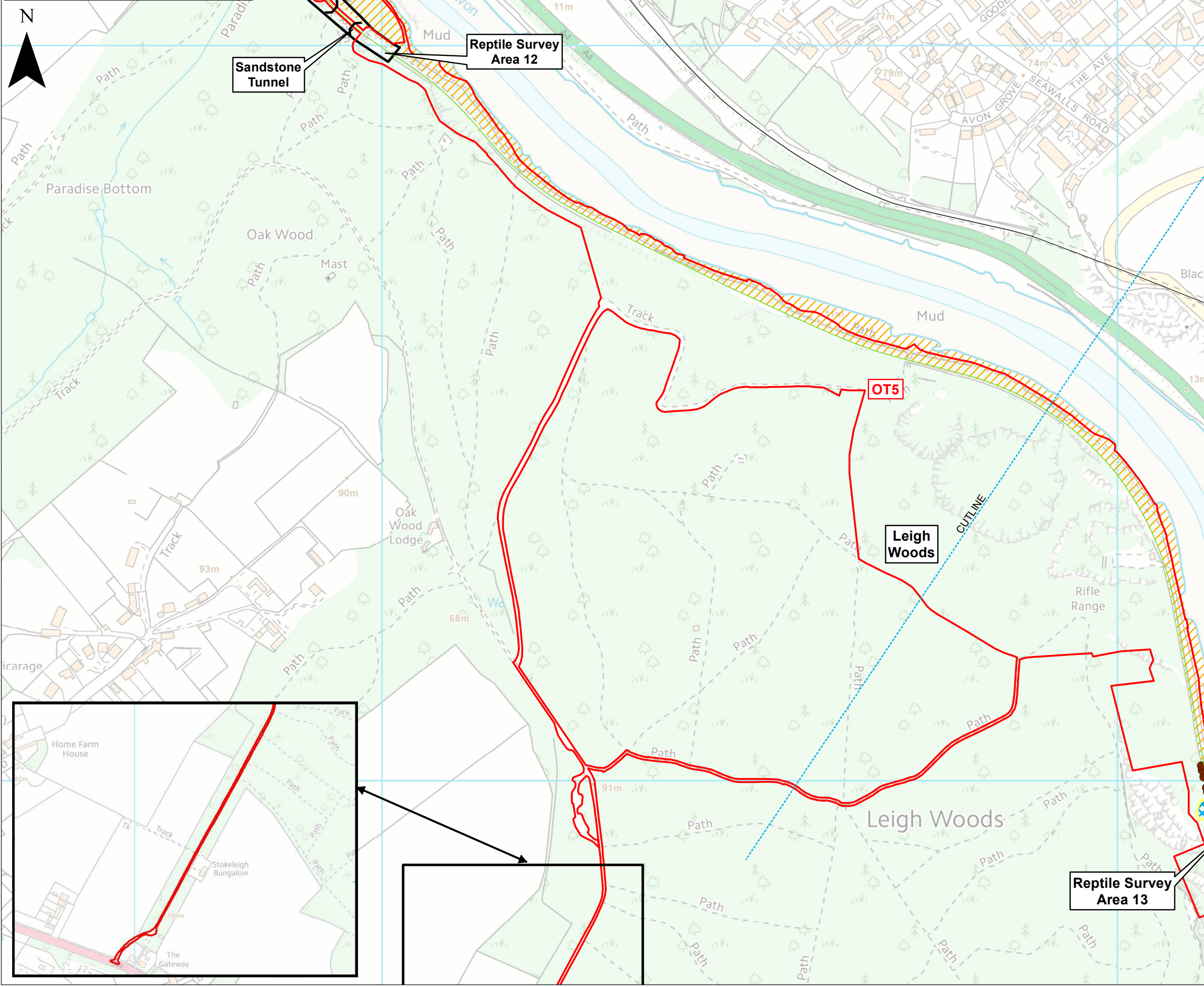
Drawing : Figure 9.4: Fauna Surveys
Sheet 6 of 11 - Chapel Pill
APFP Regulation 5(2)(a)

Drawn By : Martin Costello **Date:** 29/10/2019
Checked By : Clare Williams **Date:** 29/10/2019
Approved By : Carolyn Francis **Date:** 29/10/2019

Drawing No. : 674946 -001-014-A **Revision** ES-A

Drawing Scale : 1:5,000 @ A3

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- KEY**
- Order Limits
 - Temporary Construction Compounds
 - Portishead Branch Line**
 - The Associated Development Works
 - Reptile Survey Area**
 - Reptile Survey Area
 - Reptile Survey Tiles
 - GCN Survey**
 - GCN Survey Waterbody Number
 - Otter Survey**
 - Otter Survey Target Note
 - Habitat suitable for Otter
 - Water Vole Survey**
 - Water Vole Survey Waterbody Number



ES-A	MPC	CW	CF	29/10/2019	First draft
Rev	By	Chkd	Apprvd	Date	Description

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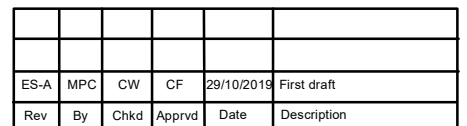
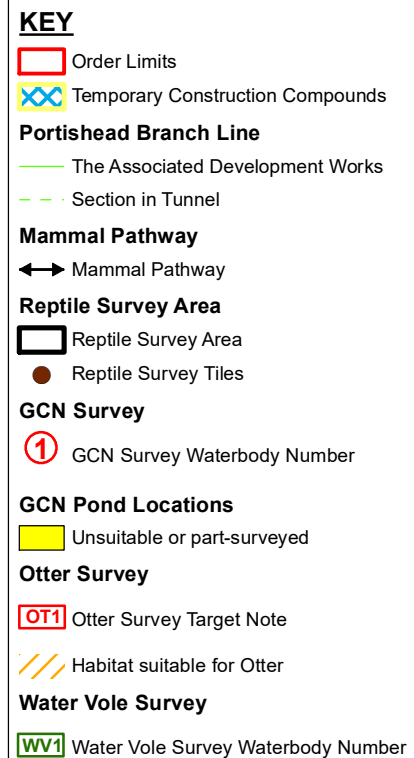
Project : Portishead Branch Line (MetroWest Phase 1)

Drawing : Figure 9.4: Fauna Surveys
Sheet 7 of 11 - Leigh Woods (1)
APFP Regulation 5(2)(a)

Drawn By : Martin Costello Date: 29/10/2019
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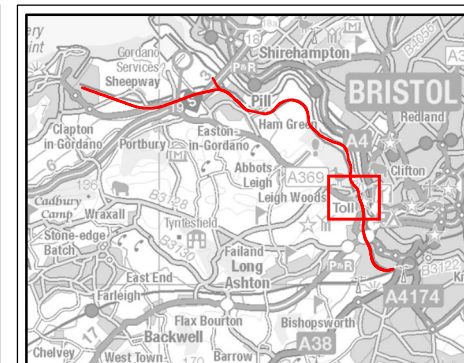
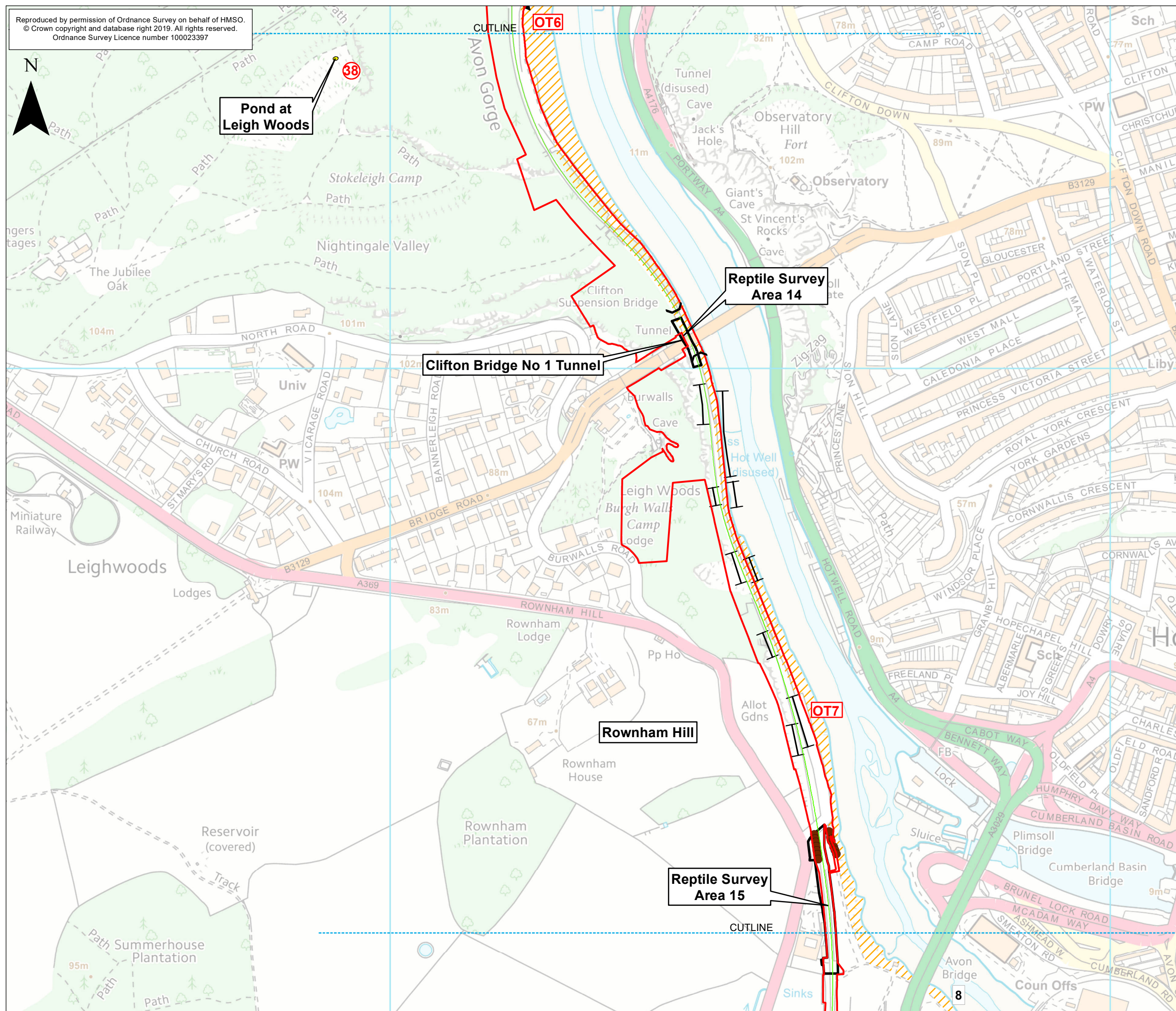
ch2m.SM

Drawing : Figure 9.4: Fauna Surveys
Sheet 8 of 11 - Leigh Woods (2)
APFP Regulation 5(2)(a)

Drawn By :	Martin Costello	Date: 29/10/2019
Checked By :	Clare Williams	Date: 29/10/2019
Approved By :	Carolyn Francis	Date: 29/10/2019

Drawing No. : 674946 -001-014-A	Revision ES-A
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KEY

- #### ☐ Order Limits

Portishead Branch Line

- The Associated Development Works
- - - Section in Tunnel

Mammal Pathway

- ↔ Mammal Pathway

Reptile Survey Area

-  Reptile Survey Area
 Reptile Survey Tiles

Dormouse Tube Survey Location

-
- Dormouse Tube Survey Location

GCN Survey

- ① GCN Survey Waterbody Number

GCN Pond Locations

- | Category | Count | Percentage |
|-----------------------------|-------|------------|
| Unsuitable or part-surveyed | 1 | 1.0% |

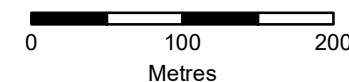
Otter Survey

- OT1 Otter Survey Target Note

-
- Habitat suitable for Otter

Water Vole Survey

- WV1** Water Vole Survey Waterbody Number



ES-A	MPC	CW	CF	29/10/2019	First draft
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Project :	Portishead Branch Line (MetroWest Phase 1)
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Drawing : Figure 9.4: Fauna Surveys
Sheet 9 of 11 - Leigh Woods (3)
APFP Regulation 5(2)(a)

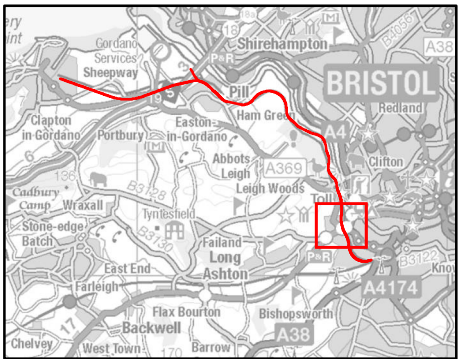
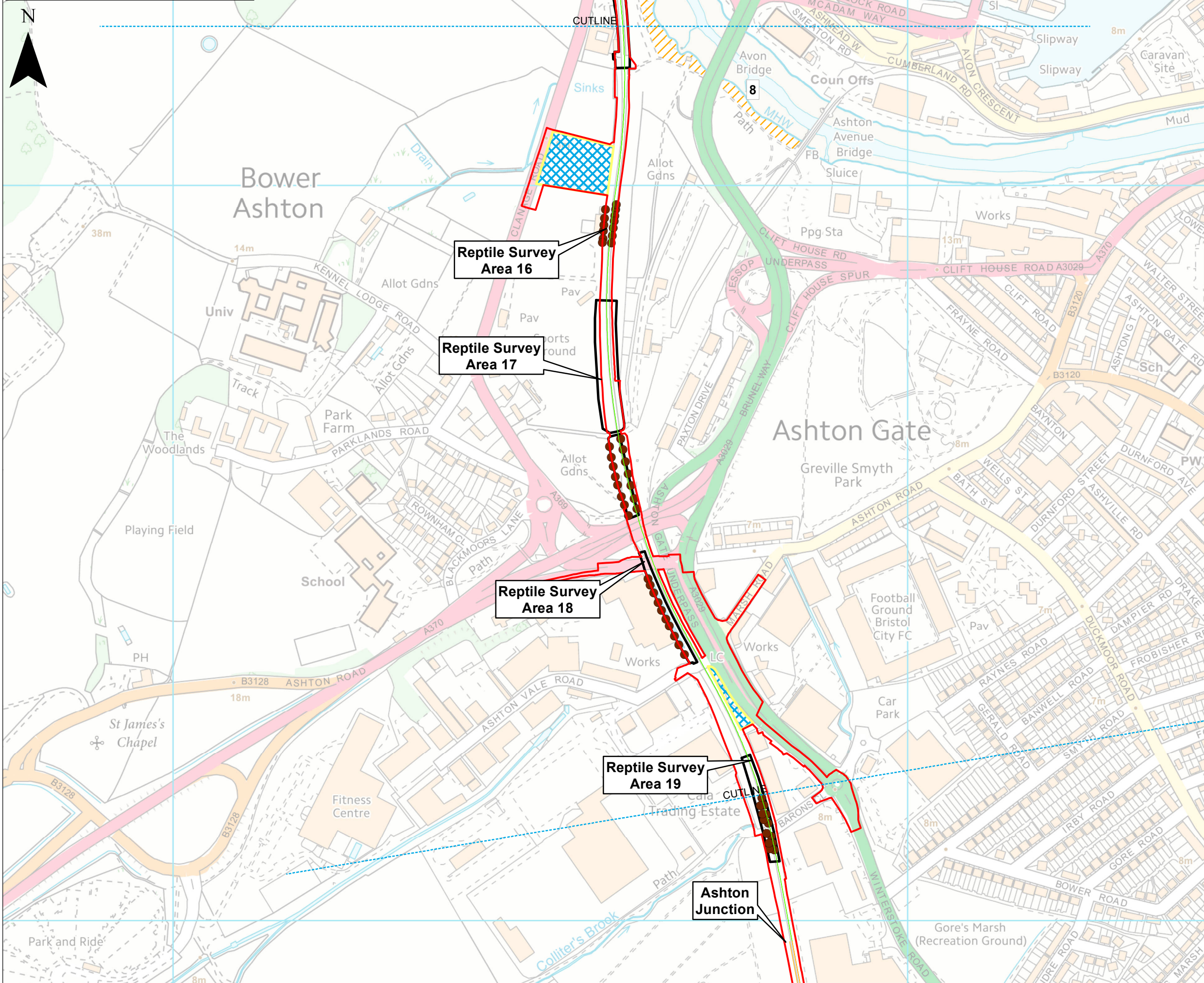
Drawn By : Martin Costello Date: 29/10/2019

Checked By : Clare Williams Date: 29/10/2019

Approved By : Carolyn Francis Date: 29/10/2019

Drawing No. : 674946 -001-014-A	Revision ES-A
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- KEY**
- Order Limits
 - Temporary Construction Compounds
 - Portishead Branch Line**
 - The Associated Development Works
 - Other Works**
 - Network Rail Permitted Development Rights
 - Reptile Survey Area**
 - Reptile Survey Area
 - Reptile Survey Tiles
 - GCN Survey**
 - GCN Survey Waterbody Number
 - Otter Survey**
 - Otter Survey Target Note
 - Habitat suitable for Otter
 - Water Vole Survey**
 - Water Vole Survey Waterbody Number

0 100 200
Metres

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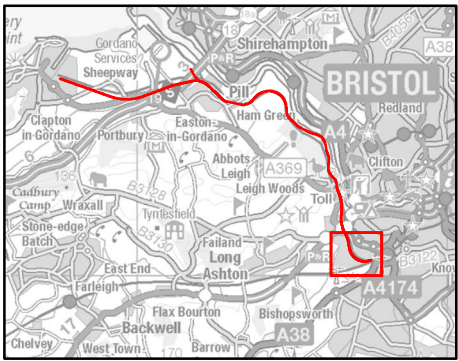
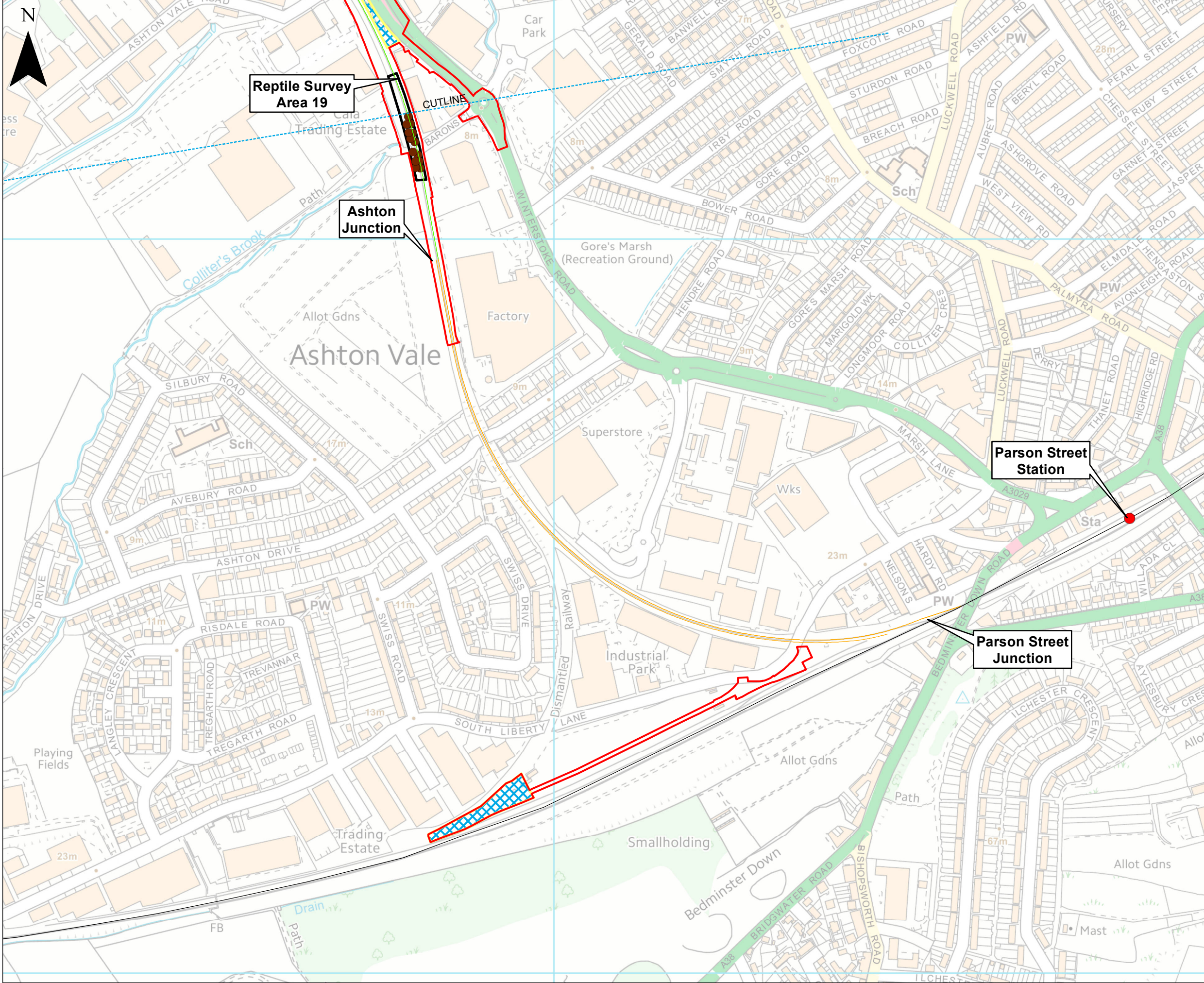
Drawing : Figure 9.4: Fauna Surveys
Sheet 10 of 11 - Ashton Gate
APFP Regulation 5(2)(a)

Drawn By : Martin Costello **Date :** 29/10/2019
Checked By : Clare Williams **Date :** 29/10/2019
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KEY

- Order Limits
- Temporary Construction Compounds

Portishead Branch Line

- The Associated Development Works

Other Works

- Network Rail Permitted Development Rights

Reptile Survey Area

- Reptile Survey Area
- Reptile Survey Tiles

GCN Survey

- GCN Survey Waterbody Number

Otter Survey

- Otter Survey Target Note

Water Vole Survey

- Water Vole Survey Waterbody Number

0 100 200					
Metres					
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Drawing : Figure 9.4: Fauna Surveys
Sheet 11 of 11 - Ashton Junction
APFP Regulation 5(2)(a)

Drawn By : Martin Costello **Date :** 29/10/2019
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