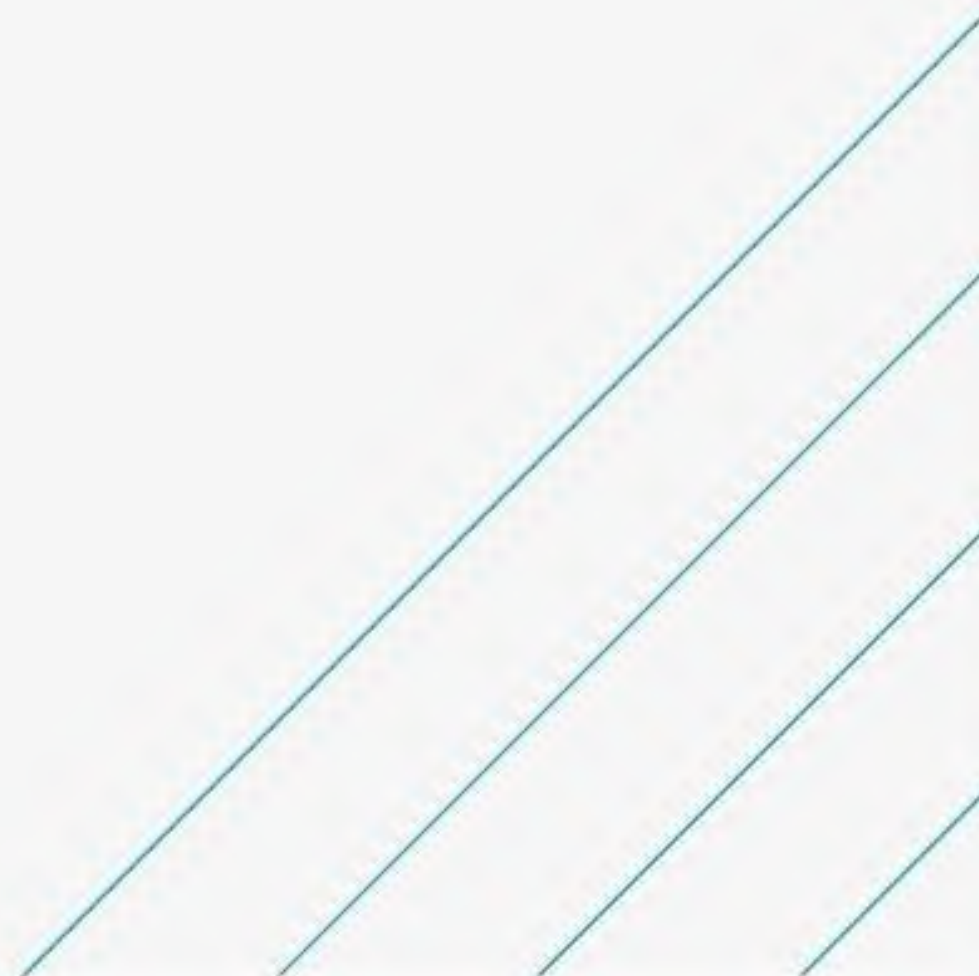


Havant Thicket Reservoir Project

Environmental Statement Volume 3: **Revised** Chapter 9 Biodiversity Figures

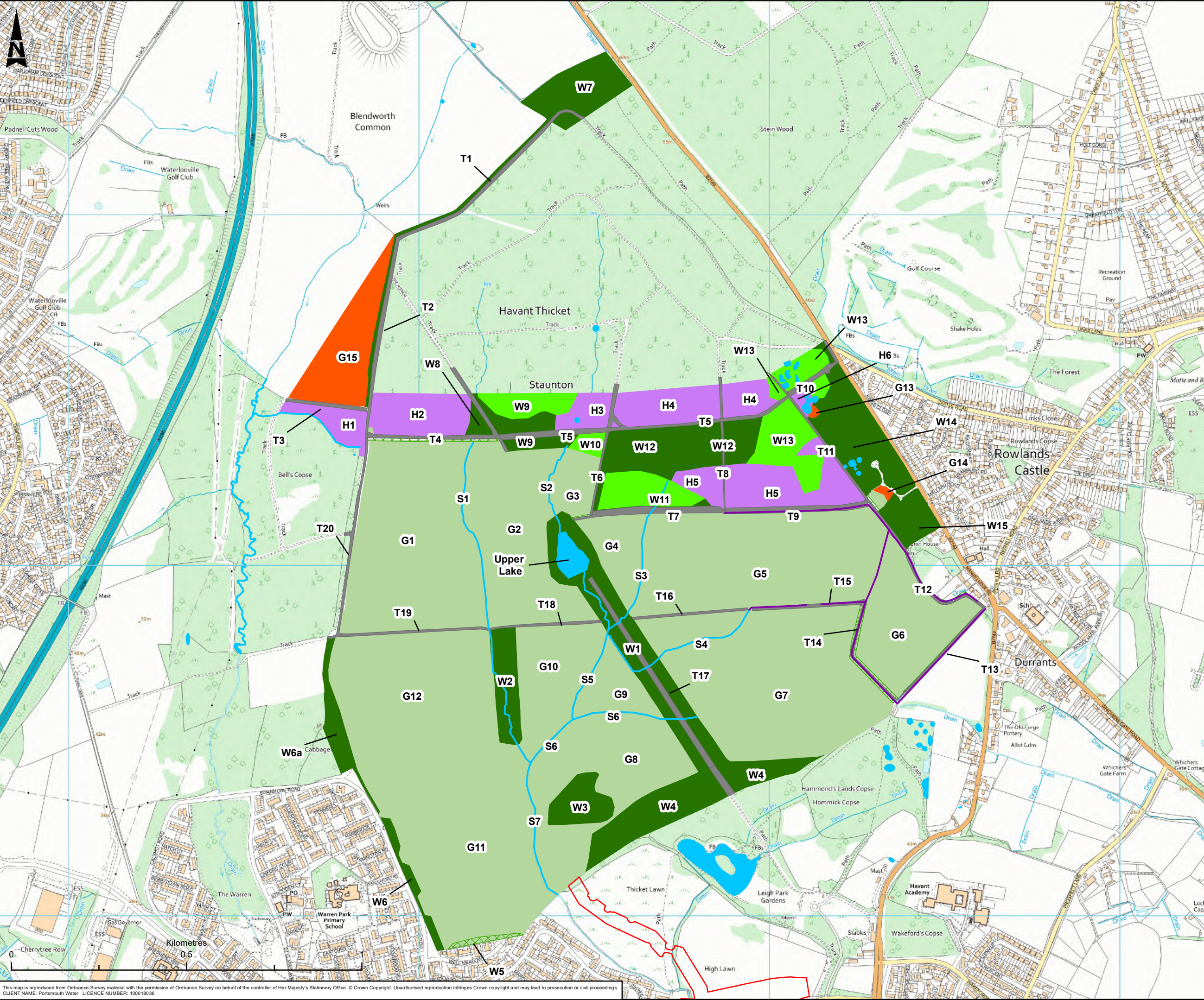
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May 2024



Schedule of Drawings included in this application:

Drawing title	Drawing number
Figure 9.1 Broad Vegetation Areas (rev)	HTR-ATK-RZ-ZZ-GS-Z-0004
Figure 9.2 Aquatic Habitats (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0060
Figure 9.3 Loss of SINC, Ancient Woodland and Priority Habitat	HTR-ATK-ZZ-ZZ-GS-Z-0134
Figure 9.4 Habitat Retained/Created	HTR-ATK-ZZ-ZZ-GS-Z-0135
Figure 9.5 Woodland Enhancement	HTR-ATK-ZZ-ZZ-GS-Z-0136
Figure 9.6 Site Location (new)	HTR-ATK-ZZ-ZZ-GS-Z-0168
Figure 9.7 Pipeline UK Habitat Classification (UKHAB) Survey (new)	HTR-ATK-ZZ-ZZ-GS-Z-0158
Figure 9.8 Pipeline National Vegetation Classification (NVC) Survey (new)	HTR-ATK-ZZ-ZZ-GS-Z-0159
Figure 9.9 Pipeline Priority and Irreplicable Habitats (new)	HTR-ATK-ZZ-ZZ-GS-Z-0160
Figure 9.10 Pipeline Veteran, Ancient and Notable Trees (new)	HTR-ATK-ZZ-ZZ-GS-Z-0161
Figure 9.11 Pipeline Badger Survey (CONFIDENTIAL) (new)	HTR-ATK-ZZ-ZZ-GS-Z-0162
Figure 9.12 Pipeline Ground Level Tree Assessments for Roosting Bats (new)	HTR-ATK-ZZ-ZZ-GS-Z-0163
Figure 9.13 Pipeline Hazel Dormouse Habitat Suitability Assessment (new)	HTR-ATK-ZZ-ZZ-GS-Z-0164
Figure 9.14 Pipeline Water Vole and Otter Survey (new)	HTR-ATK-ZZ-ZZ-GS-Z-0165
Figure 9.15 Pipeline Reptile Habitat Suitability Assessment (new)	HTR-ATK-ZZ-ZZ-GS-Z-0166
Figure 9.16 Great Crested Newt Habitat Suitability Assessment (new)	HTR-ATK-ZZ-ZZ-GS-Z-0167
Figure 9.17 Invasive Non-native Plant Species (new)	HTR-ATK-ZZ-ZZ-GS-Z-0168
Figure 9.18 Ecological Constraints (new)	HTR-ATK-ZZ-ZZ-GS-Z-0183
Figure 9.19 Kingfisher Survey (new)	HTR-ATK-ZZ-ZZ-GS-Z-0195
Figure 9.20 BNG Assessment Site Overview (new)	HTR-ATK-ZZ-ZZ-GS-Z-0200
Figure 9.21 Onsite BNG Assessment Habitat Baseline Plan (new)	HTR-ATK-ZZ-ZZ-GS-Z-0196
Figure 9.22 BNG Assessment Post Development Habitat Plan – Area Habitats (new)	HTR-ATK-ZZ-ZZ-GS-Z-0197
Figure 9.23 BNG Assessment Post Development Habitat Plan – Linear Habitats (new)	HTR-ATK-ZZ-ZZ-GS-Z-0198
Figure 9.24 Watercourse BNG Reaches and Morph Survey Locations (new)	HTR-ATK-ZZ-ZZ-GS-Z-0199



- Pipeline Red Line Boundary
- Reservoir Red Line Boundary
- Ditch
- Watercourse
- Acid Grassland
- Broadleaved Woodland (including plantation)
- Coniferous Plantation
- Former heathland developing into scrub and secondary woodland
- Neutral Grassland
- Pond
- Scrub
- Tracks and rides

NOTE: Please refer to the Pipeline Ecological Update report for further information on the habitats associated with the 'Surface and Underground Works' areas of the proposed pipeline south of the Havant Thicket Reservoir site.

This map is Map C6 - Target Notes and Broad Vegetation Areas from ECOSA's Vegetation Survey Report (Appendix 9.2). The labelling such as T1 and W1 refer to areas given more detailed descriptions within this report.

C03	NW	DE	AR	JF	PUBLISHED	07/05/2024
C02	NW	DE	AR	JF	PUBLISHED	23/03/2023
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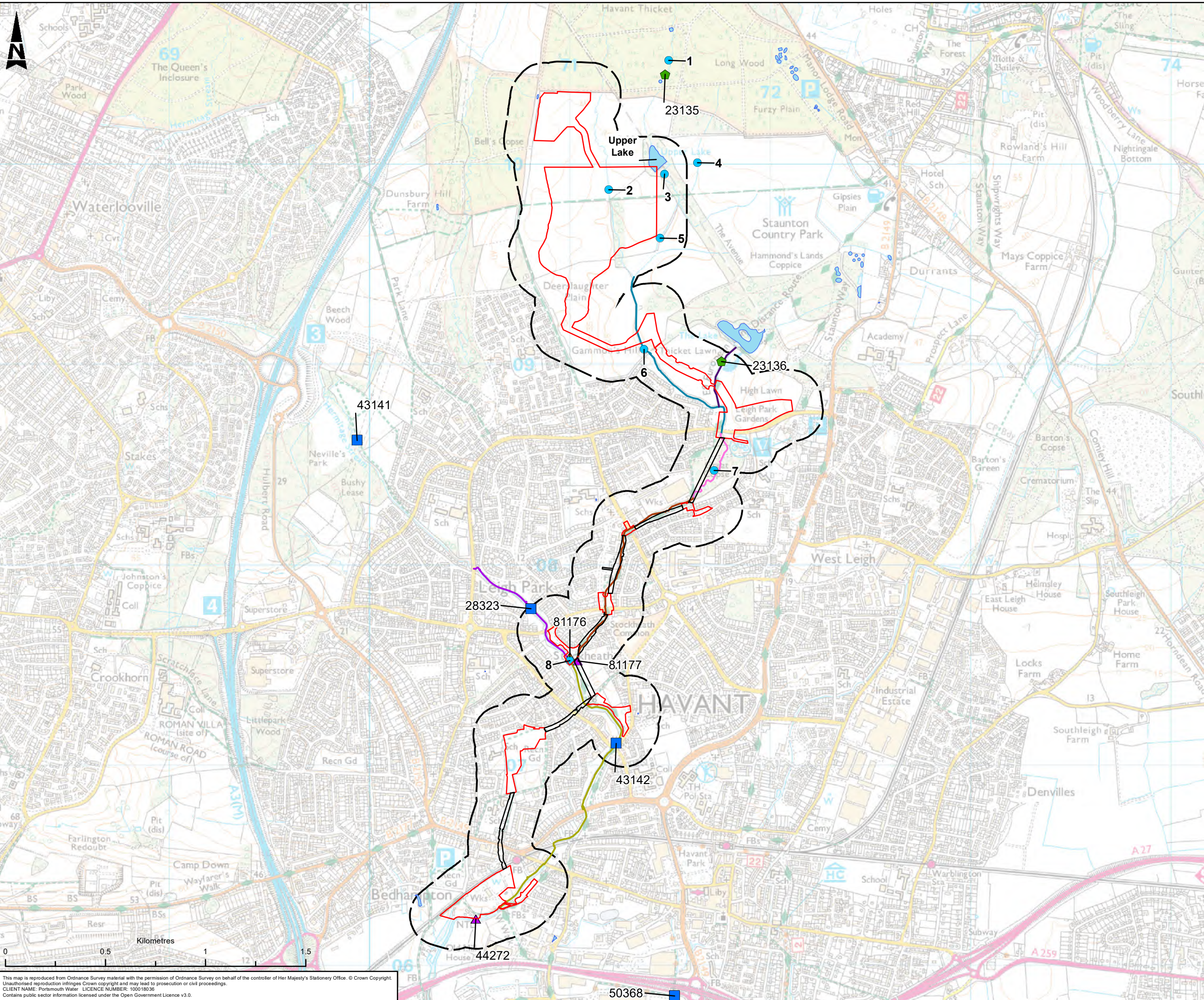
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Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 9.1 BROAD VEGETATION AREAS

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- 150m Study Area Buffer

Unnamed tributary of Riders Lane Stream

- Unnamed tributary of Riders Lane Stream (The Lake Stream)

Riders Lane Stream

- Riders Lane Stream from HTR to Great Copse
- Riders Lane Stream through Great Copse
- Riders Lane Stream from Great Copse to confluence with Hermitage Stream

Watercourse Reaches

- Hermitage Stream from Middle Park Way to the confluence with Riders Lane Stream
- Hermitage Stream from the confluence with Riders Lane Stream to Nominal Tidal Limit (NTL)

Standing Water Bodies

- Standing Water Bodies

Environment Agency Survey Sites

- Fish
- Invertebrates
- Invertebrates and Macrophytes
- River Habitat Survey

Aquatic Species Surveys

- Macroinvertebrate survey locations (April 2020)

NOTE: Please refer to the Pipeline Ecological Update report for further information on the habitats associated with the 'Surface and Underground Works' areas of the proposed pipeline south of the Havant Thicket Reservoir site.

Code	MMN	NW	AR	JF	Published	Date
C03	MMN	NW	AR	JF	PUBLISHED	07/05/2024
C02	NW	NL	AR	JF	PUBLISHED	27/06/2023
C01	FD	NL	IM	LB	PUBLISHED	25/08/2020
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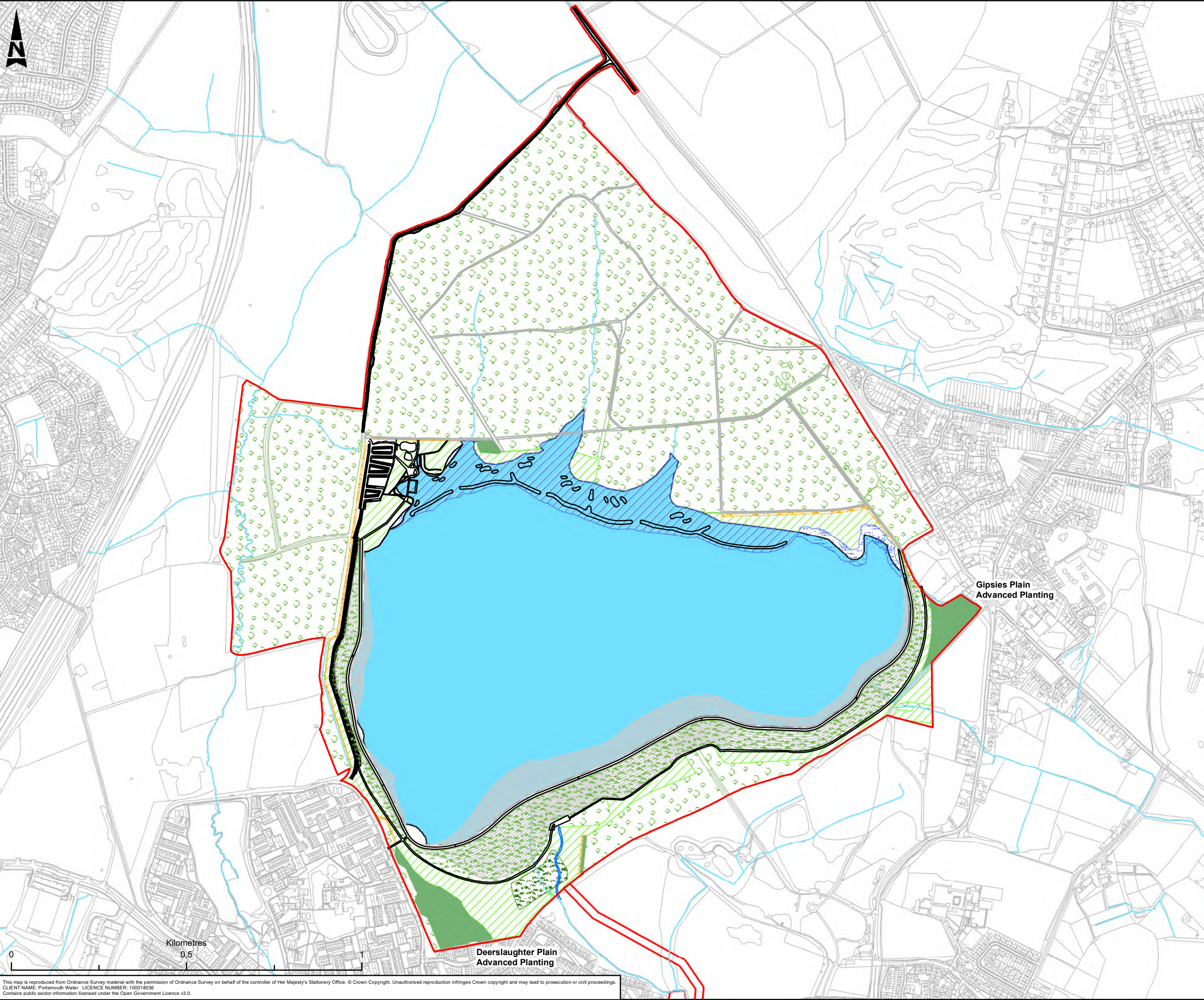
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FIGURE 9.2
AQUATIC HABITATS

Portsmouth Water Drawing Number	Rev
	C03



Red Line Boundary

Embankment

Land within High Water Reservoir Zone or Footprint

Wetland Area with Retained Wet Woodland Fringes

Created Stream

Created Scrub/Bolstered Edge Habitat

Created Grassland

Created Woodland/Woodpasture

Created Shoreline Ephemeral Shallows

Retained Species Poor Rush Pasture to be Enhanced to Priority Habitat: Purple Moor Grass Rush Pasture

Retained and Enhanced Grassland

Retained Woodland

Notes

1. The northern access road follows an existing track to minimise woodland loss.

2. Where possible existing areas of grassland will be retained during the construction phase but a precautionary approach of assuming grassland will be lost/damaged and recreated has been taken in this map.

3. For a more detailed landscape plan please see HTR-ATK-ZZ-ZZ-DR-L-0015

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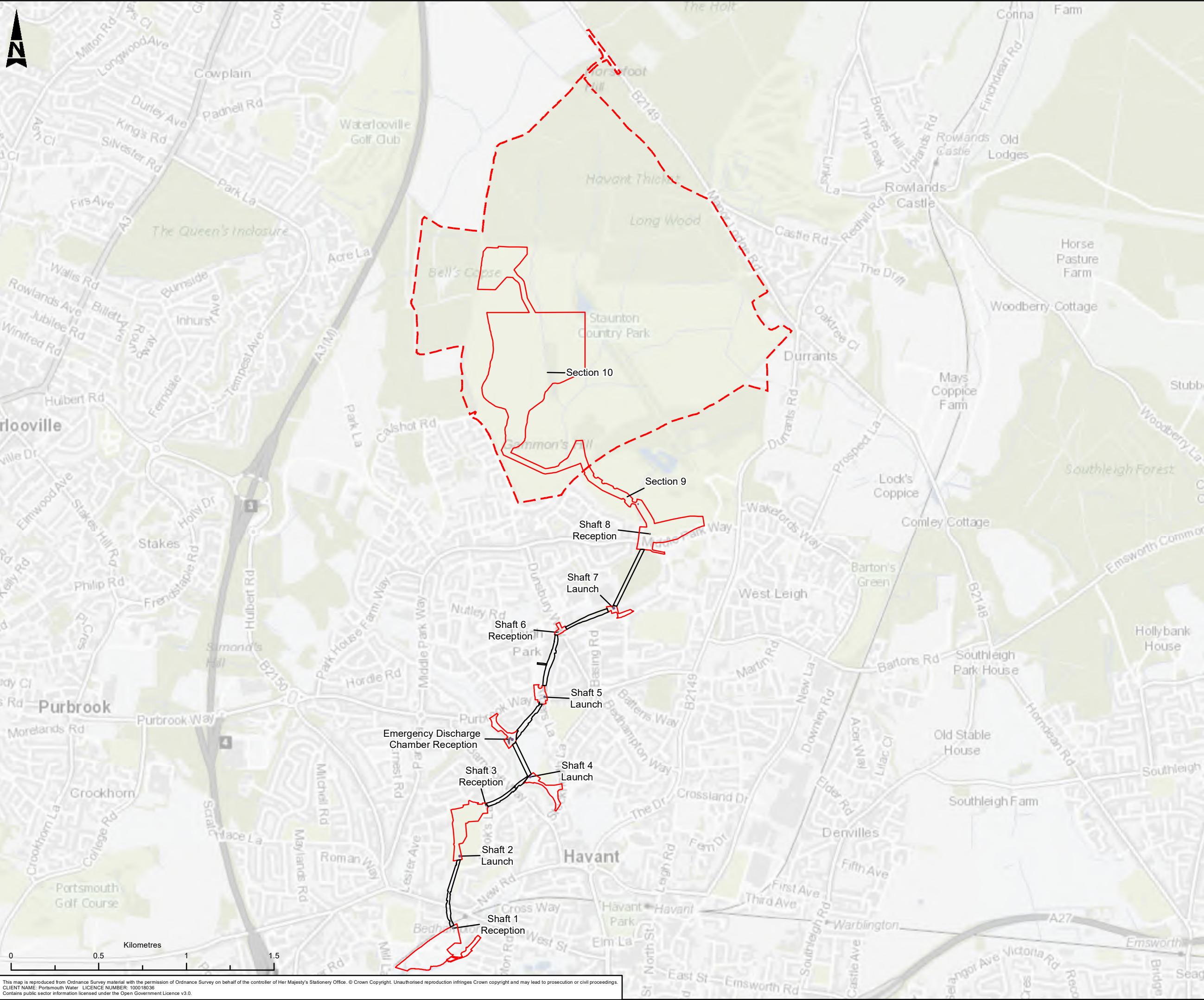
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**FIGURE 9.4
HABITAT RETAINED/CREATED**

Portsmouth Water Drawing Number	Rev
	C01

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Surface and Underground Works

Underground Works Only

Reservoir Red Line Boundary

Pipeline Work Locations

Pipeline Work Locations (Launch and Reception)

NOTE: This figure shows the location of the Pipeline Scheme in relation to the Havant Thicket Reservoir scheme. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the Pipeline Scheme. Please refer to Chapter 9 of the Havant Thicket Reservoir Project Environmental Statement (Atkins, 2020) for further information on the Havant Thicket Reservoir scheme.

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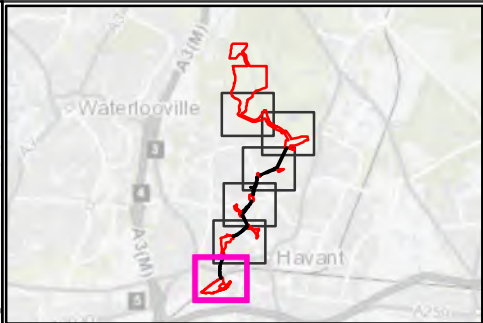
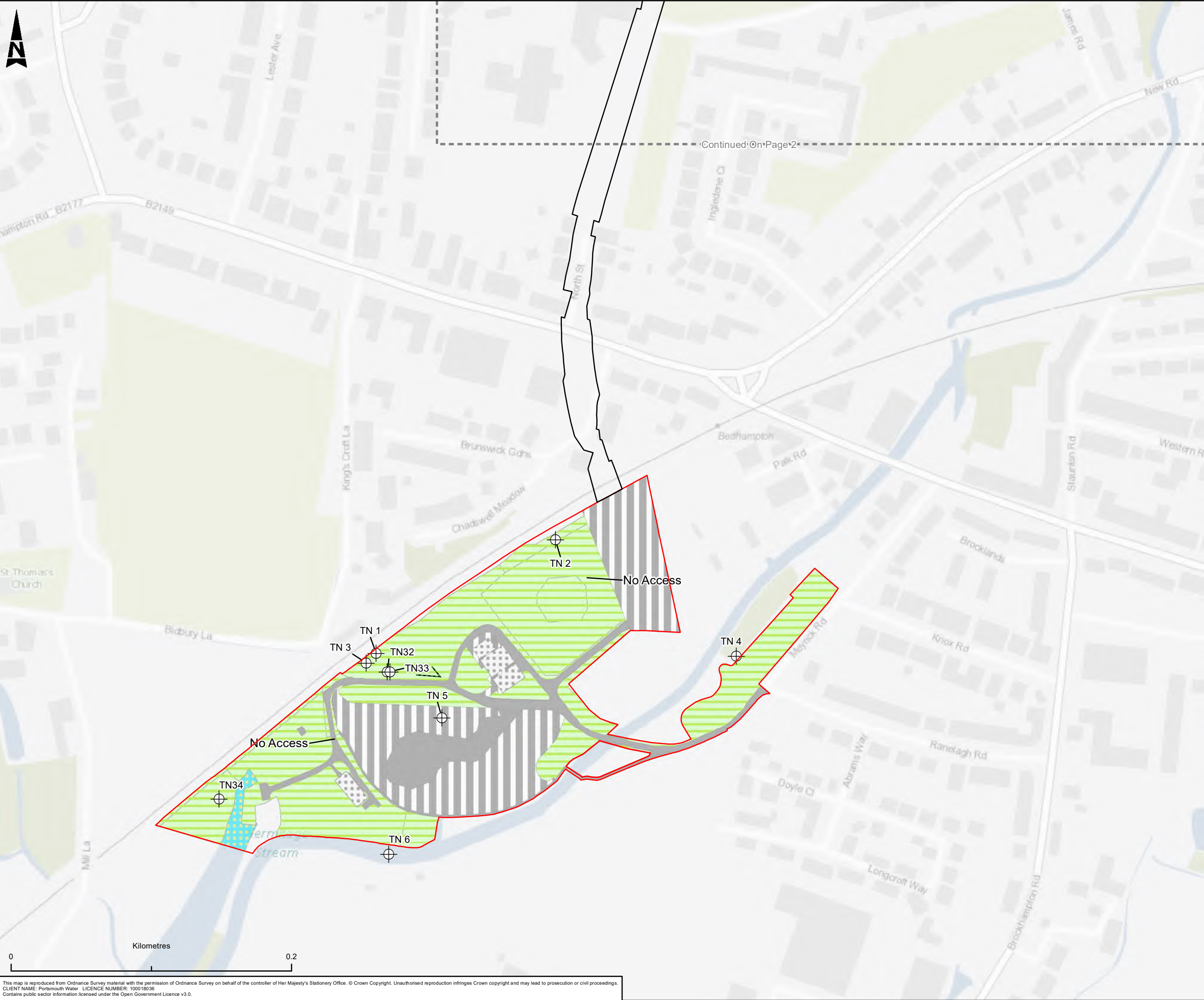
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FIGURE 9.6
SITE LOCATION

Portsmouth Water Drawing Number

Rev

C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only

Linear Habitats

- w1g6 - Line of Trees

Habitats Areas

- g3c - Other Neutral Grassland
- r2 - Rivers and Lakes
- u1b - Developed Land, Sealed Surface
- u1b5 - Buildings
- u1e - Built Linear Features

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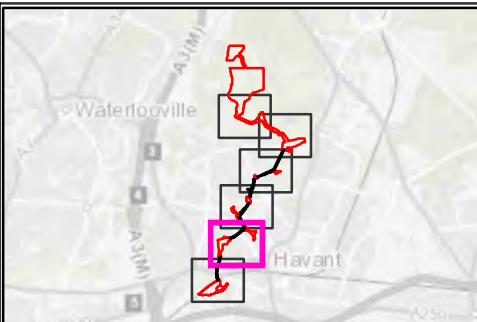
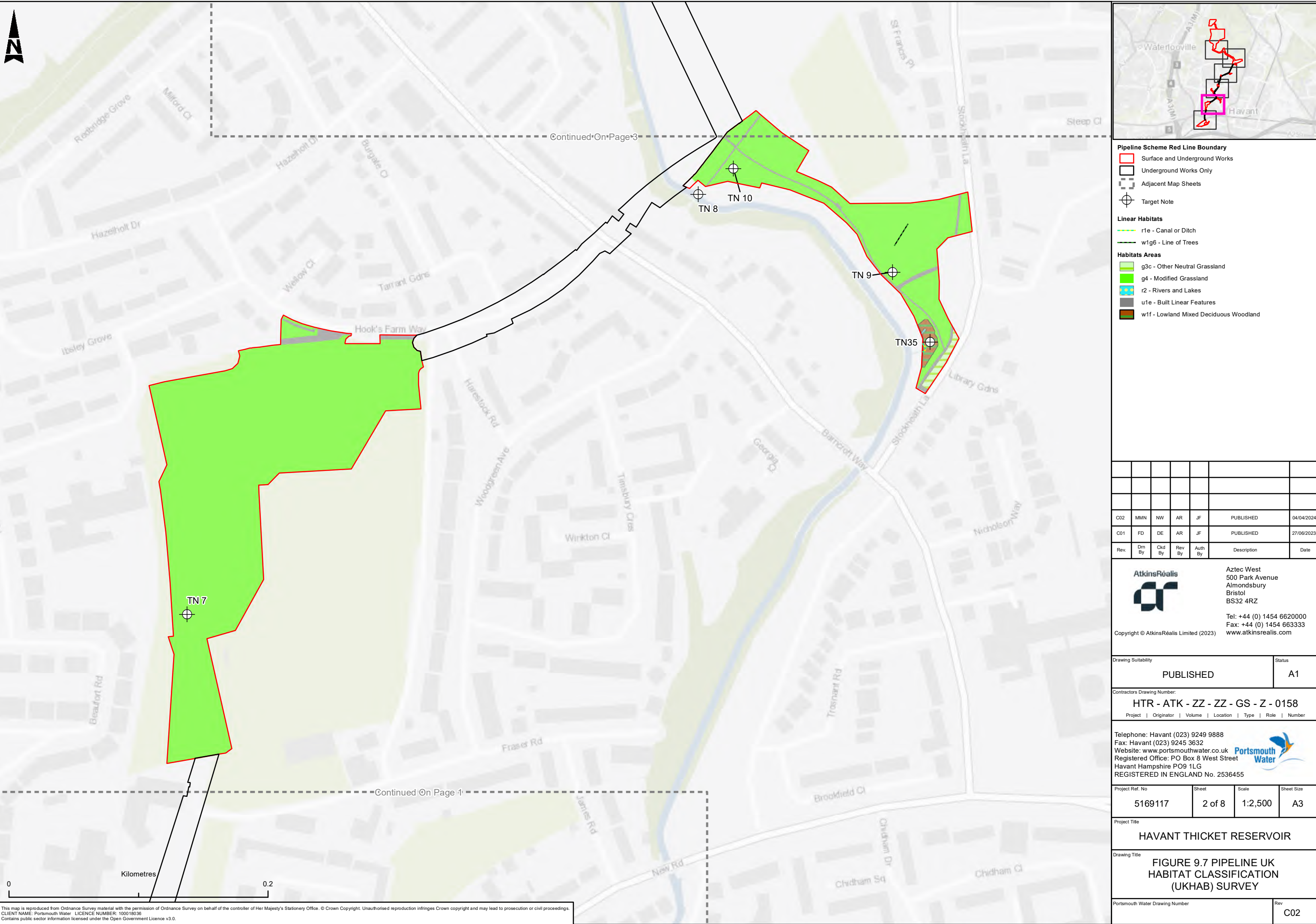
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FIGURE 9.7 PIPELINE UK HABITAT CLASSIFICATION (UKHAB) SURVEY

Portsmouth Water Drawing Number	Rev
	C02



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Adjacent Map Sheets
 - Target Note
- Linear Habitats**
- r1e - Canal or Ditch
 - w1g6 - Line of Trees
- Habitats Areas**
- g3c - Other Neutral Grassland
 - g4 - Modified Grassland
 - r2 - Rivers and Lakes
 - u1e - Built Linear Features
 - w1f - Lowland Mixed Deciduous Woodland

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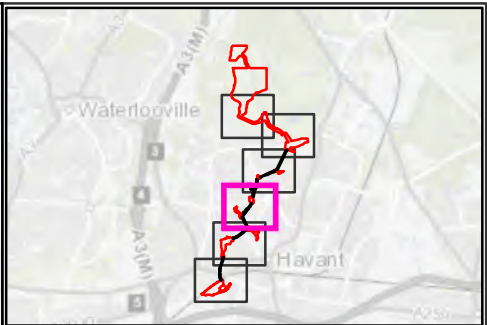
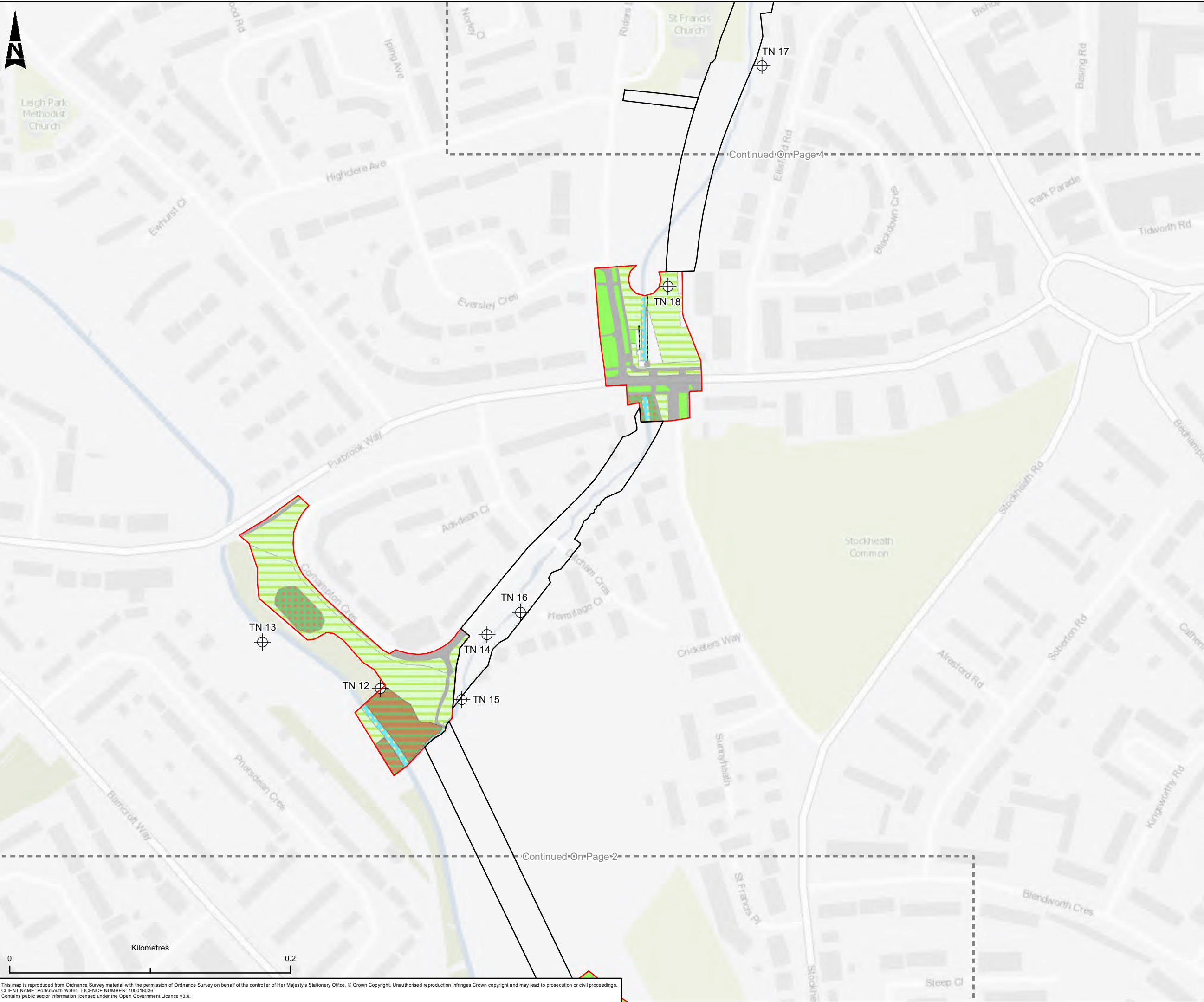
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FIGURE 9.7 PIPELINE UK
HABITAT CLASSIFICATION
(UKHAB) SURVEY

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets
- Target Note

Linear Habitats

- w1g6 - Line of Trees

Habitats Areas

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- r2 - Rivers and Lakes
- u1d - Suburban Mosaic of Developed/Natural Surfaces
- u1e - Built Linear Features
- w1f - Lowland Mixed Deciduous Woodland
- w1g - Broadleaved, Other Woodland

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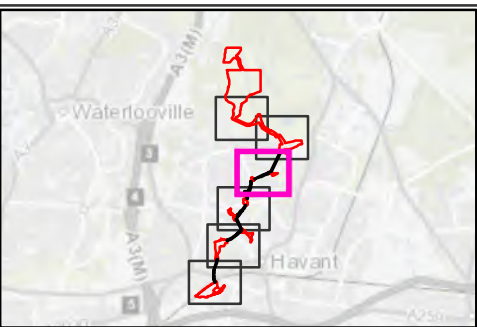
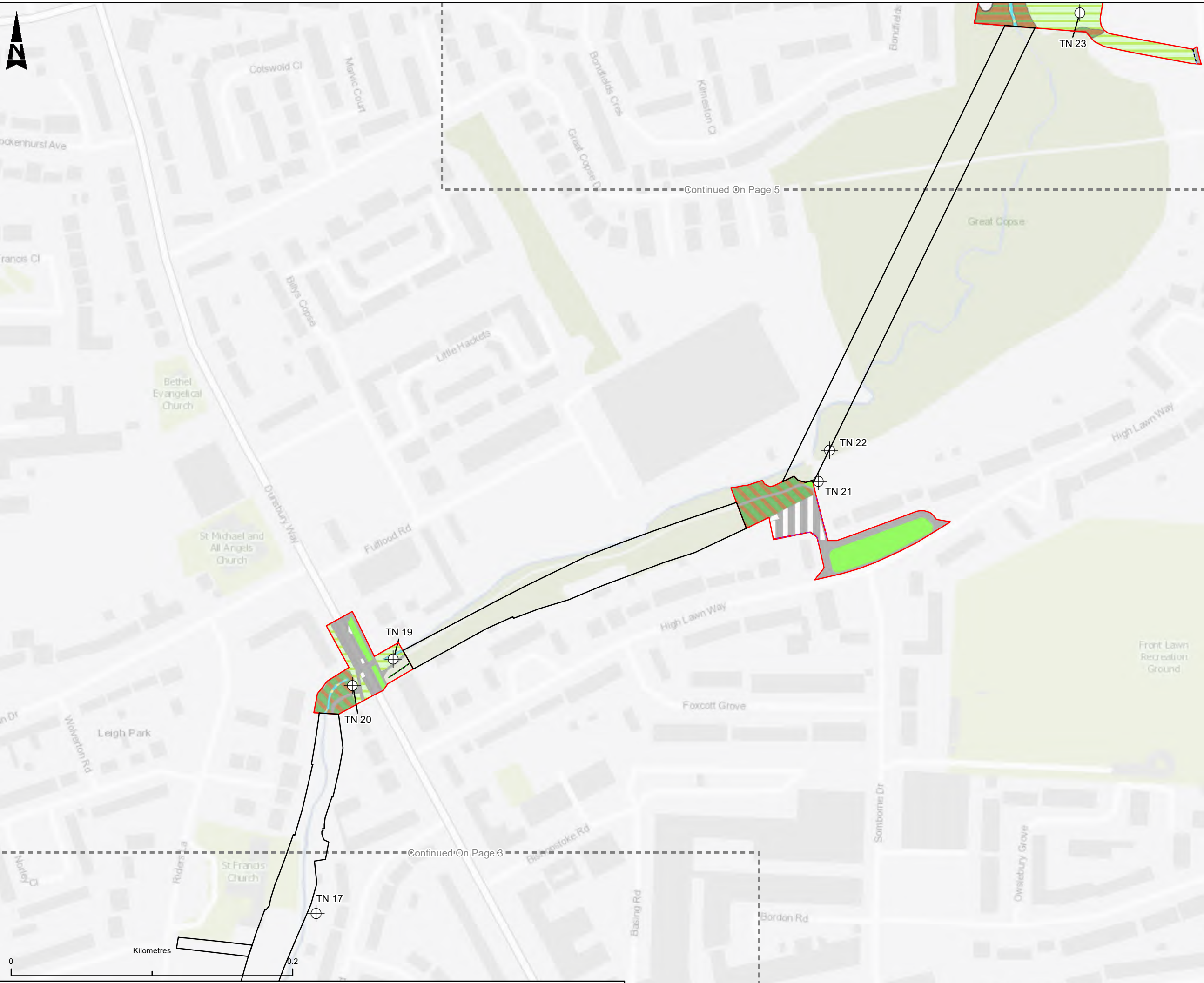
Project Title

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FIGURE 9.7 PIPELINE UK HABITAT CLASSIFICATION (UKHAB) SURVEY

Portsmouth Water Drawing Number	Rev
	C02



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Adjacent Map Sheets
 - Target Note
- Linear Habitats**
- h2a - Hedgerow (Priority Habitat)
 - h2b - Other Hedgerow
 - w1g6 - Line of Trees
- Habitats Areas**
- g3c - Other Neutral Grassland
 - g4 - Modified Grassland
 - r2 - Rivers and Lakes
 - u1b - Developed Land, Sealed Surface
 - u1d - Suburban Mosaic of Developed/Natural Surfaces
 - u1e - Built Linear Features
 - w1d - Wet Woodland
 - w1f - Lowland Mixed Deciduous Woodland

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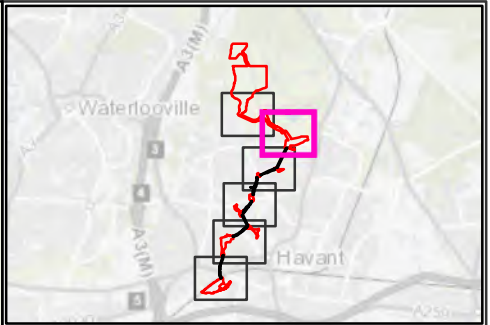
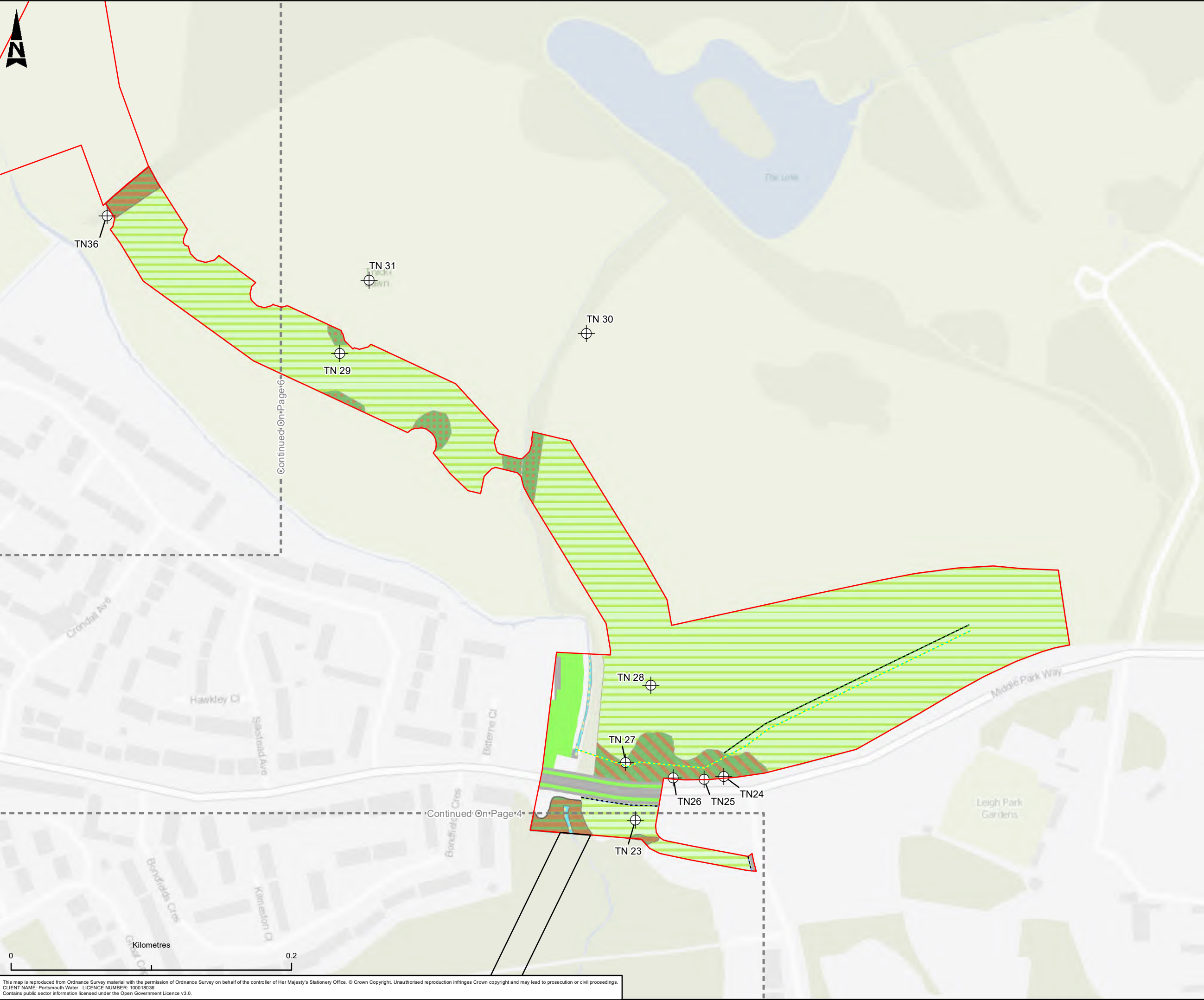
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FIGURE 9.7 PIPELINE UK HABITAT CLASSIFICATION (UKHAB) SURVEY

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets
- Target Note

Linear Habitats

- h2a - Hedgerow (Priority Habitat)
- r1e - Canal or Ditch
- w1g6 - Line of Trees

Habitats Areas

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- r2 - Rivers and Lakes
- u1b - Developed Land, Sealed Surface
- u1e - Built Linear Features
- w1d - Wet Woodland
- w1f - Lowland Mixed Deciduous Woodland
- w1g - Broadleaved, Other Woodland

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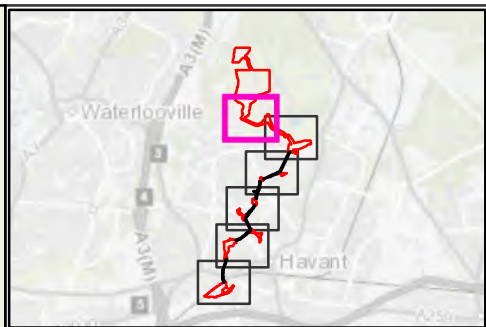
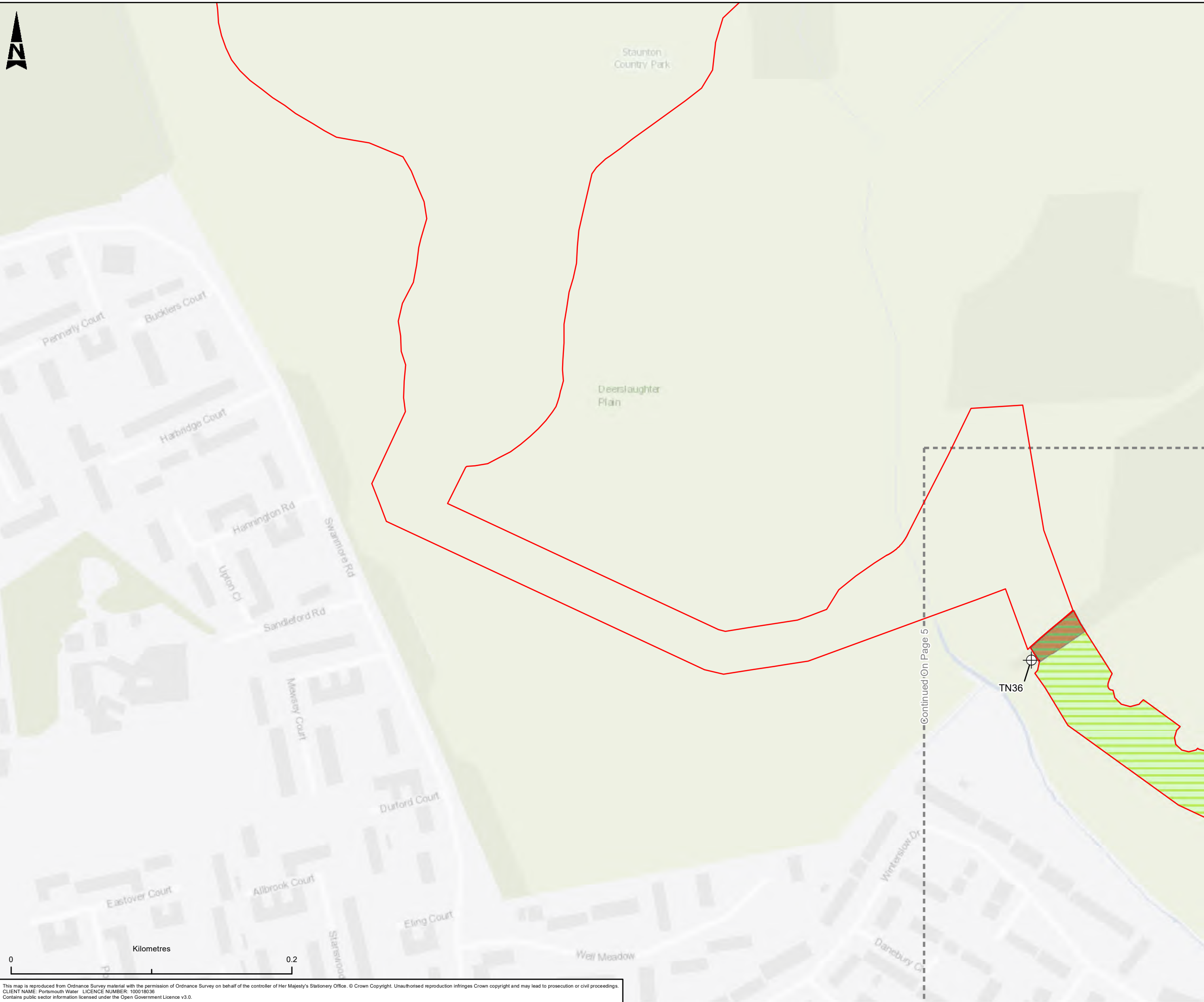
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FIGURE 9.7 PIPELINE UK HABITAT CLASSIFICATION (UKHAB) SURVEY

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Adjacent Map Sheets
- Target Note

Habitats Areas

- g3c - Other Neutral Grassland
- w1f - Lowland Mixed Deciduous Woodland

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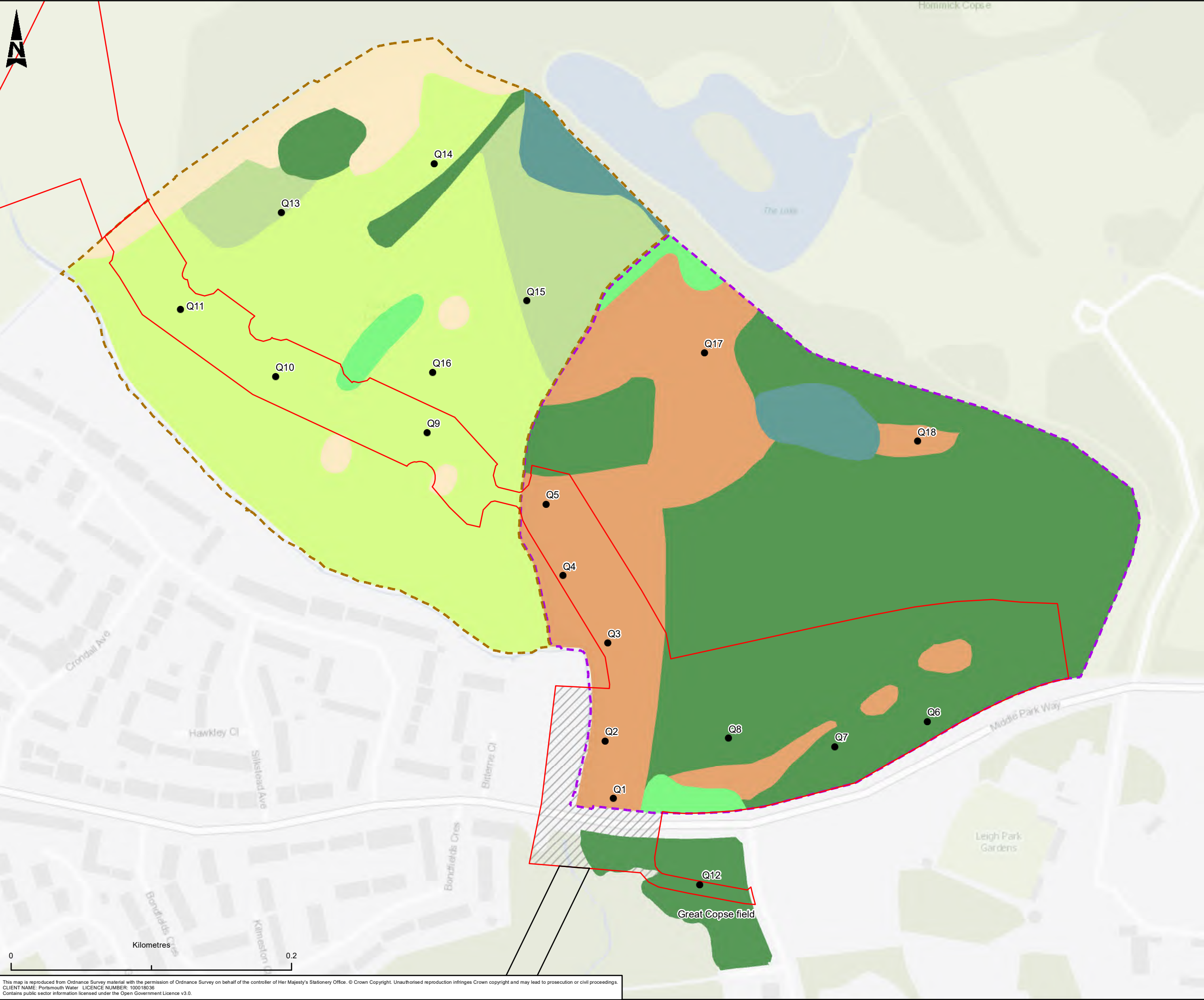
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Drawing Title

FIGURE 9.7 PIPELINE UK HABITAT CLASSIFICATION (UKHAB) SURVEY

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only

Quadrat Locations

- Quadrat Locations

SINC Boundary

- High Lawn
- Thicket Lawn

NVC Habitat Types

- MG10a – rush pasture
- MG5a – lowland meadow (priority habitat)
- MG6b – grassland
- MG9 – damp grassland
- W10 – woodland
- W1 – wet woodland (priority habitat)
- W22 – scrub
- Common habitats (not within the scope of the detailed botanical survey)

NOTE: This figure details the results of the NVC botanical surveys undertaken across Shaft 8 and Section 9. Please refer to Appendix 9.16 Pipeline Ecological Update and Appendix 9.20 Pipeline Botanical Survey Report for further information on the NVC botanical surveys.

C02	MMN	NW	AR	JF	PUBLISHED	03/04/2024
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5169117	1 of 1	1:2,500	A3

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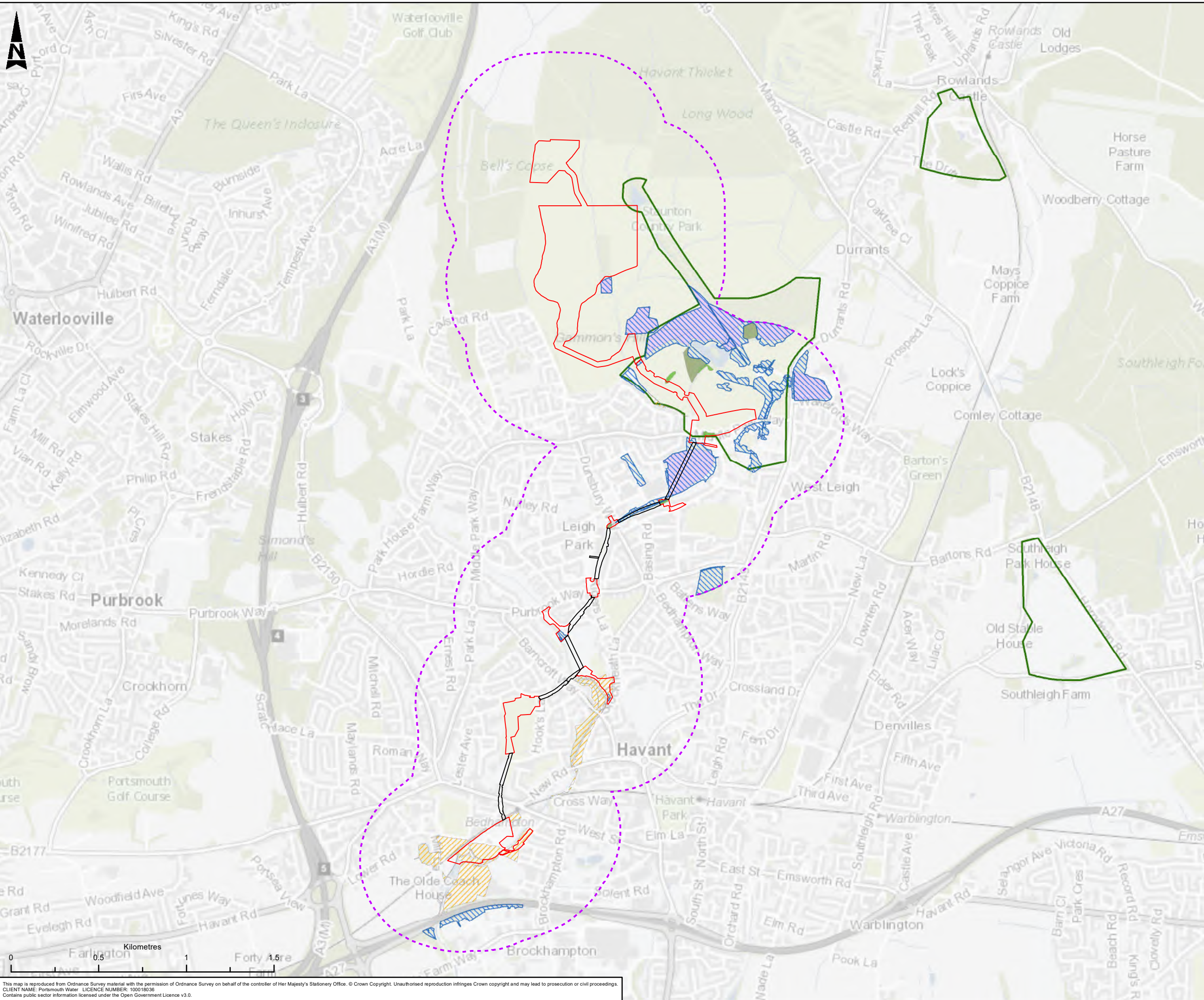
HAVANT THICKET RESERVOIR

Drawing Title

FIGURE 9.8 PIPELINE NATIONAL VEGETATION CLASSIFICATION (NVC) SURVEY

Portsmouth Water Drawing Number	Rev
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Surface and Underground Works

Underground Works Only

500 m Survey Area

Lowland Mixed Deciduous Woodland

Coastal and Floodplain Grazing Marsh

Lowland Meadow

Mudflat

Wet Woodland

Wood Pasture and Parkland

Ancient Woodland

NOTE: This figure details the priority and irreplaceable habitats within 500 m of the Pipeline Scheme, as identified during the ecological desk study and during field surveys. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on irreplaceable habitats within 500 m of the Pipeline Scheme and priority habitats within 1 km of the Pipeline Scheme. Please refer to Figure 9.10 Veteran Trees in ES Volume 4, for information on potential veteran, ancient and notable trees within 500 m of the Pipeline Scheme. Area not surveyed for the Pipeline Ecological Update, refer to relevant ecological mapping for the reservoir site contained in Volume 4 of the Environmental Statement.

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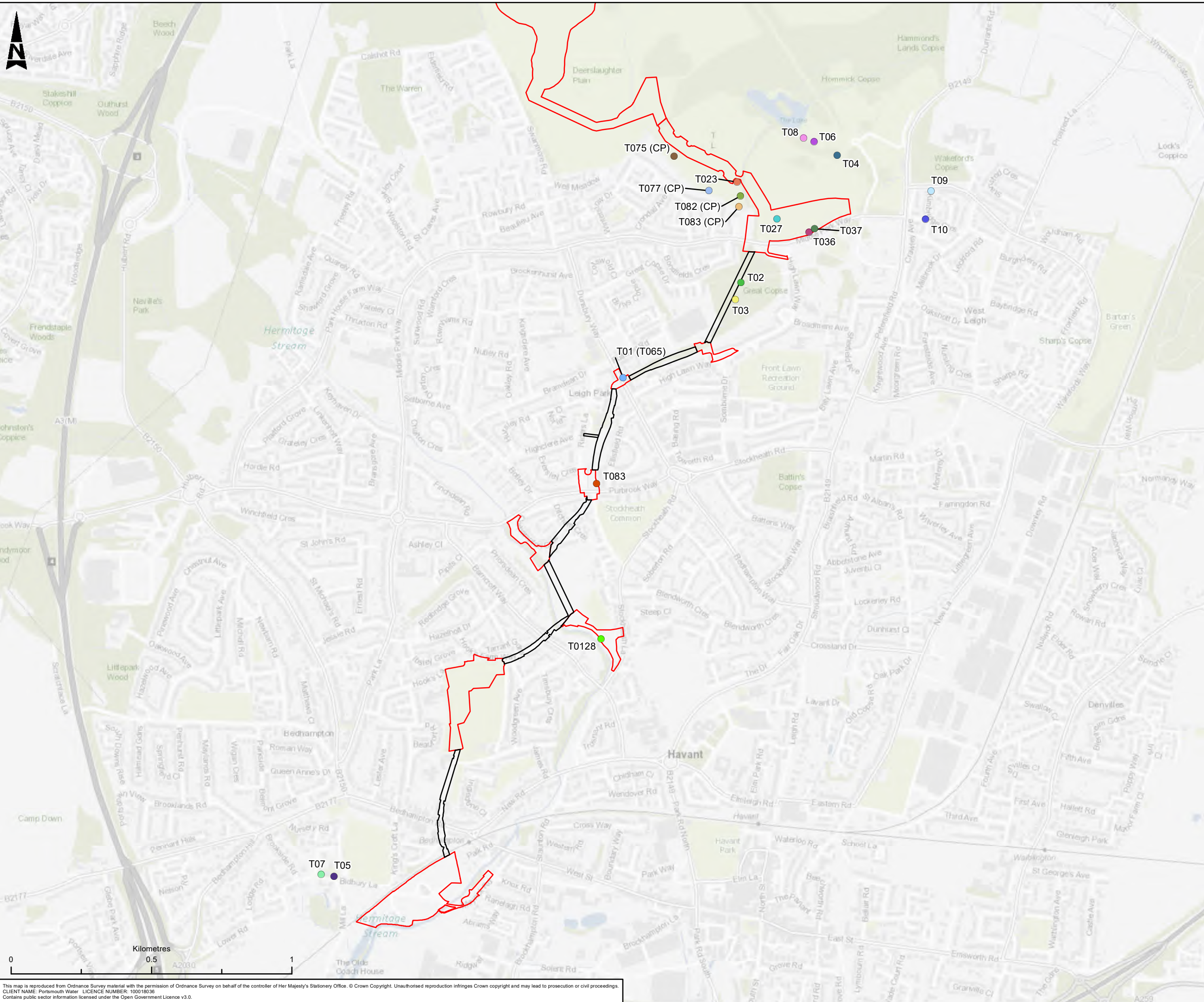
FIGURE 9.9 PIPELINE PRIORITY AND IRREPLACEABLE HABITATS

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Surface and Underground Works

Underground Works Only

Tree Classification

T0128

T01 (T065)

T02 - Veteran

T023 - Veteran/Notable

T027 - Veteran/Notable

T03 - Notable

T036 - Veteran/Notable

T037 - Locally Notable

T04 - Veteran

T05 - Ancient

T06 - Veteran

T07 - Ancient

T075 - Locally Notable

T077 - Veteran/Notable

T08 - Ancient

T082 - Veteran/Notable

T083 - Veteran/Notable

T084 - Veteran/Notable

T09 - Veteran

T10 - Veteran

C02	FD	DE	AR	JF	PUBLISHED	05/04/2024
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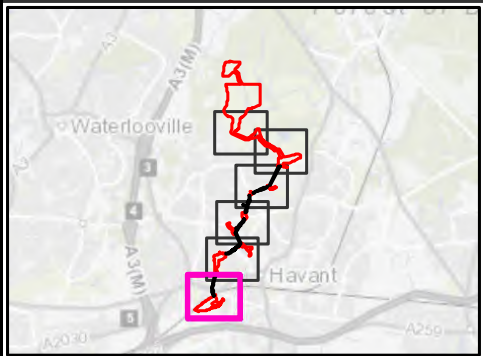
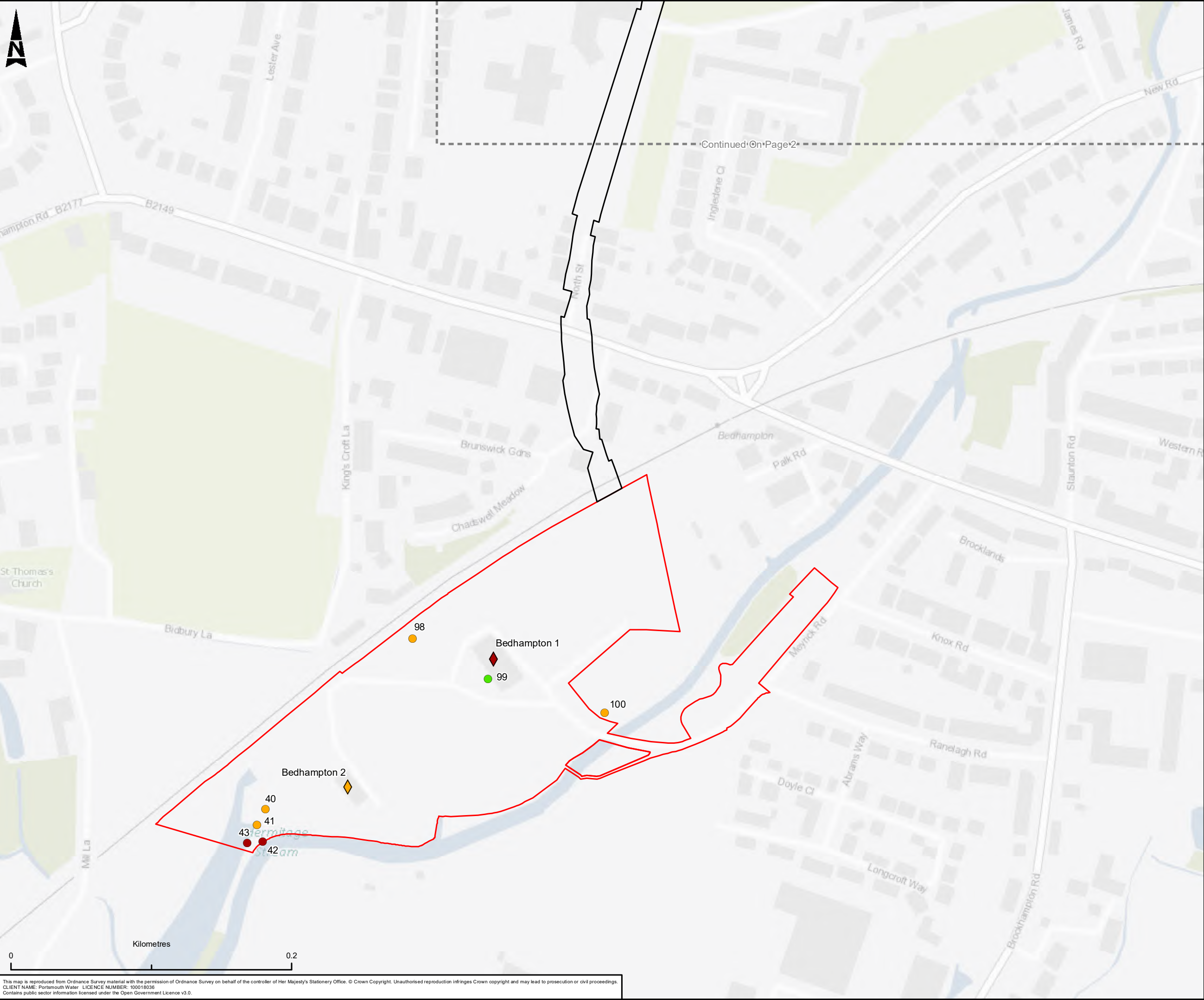
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FIGURE 9.10
PIPELINE VETERAN, ANCIENT
AND NOTABLE TREES

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Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Ground Level Tree Assessment Results

- High Suitability
- Moderate Suitability
- Low Suitability

Building Preliminary Roost Assessment for Bats

- ◆ High Suitability
- ◆ Moderate Suitability

NOTE: Labels on figure refer to tree tag numbers and building references. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the ground level tree assessments and preliminary roost assessments undertaken in relation to roosting bats. Trees not identified on this figure have been assessed as providing negligible suitability for roosting bats.

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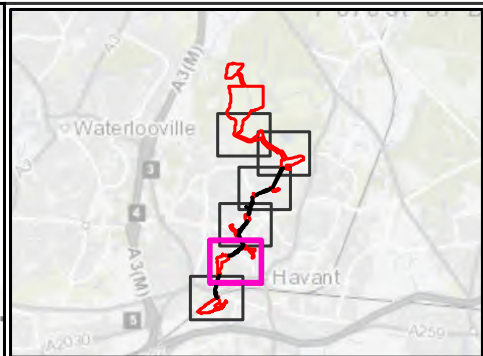
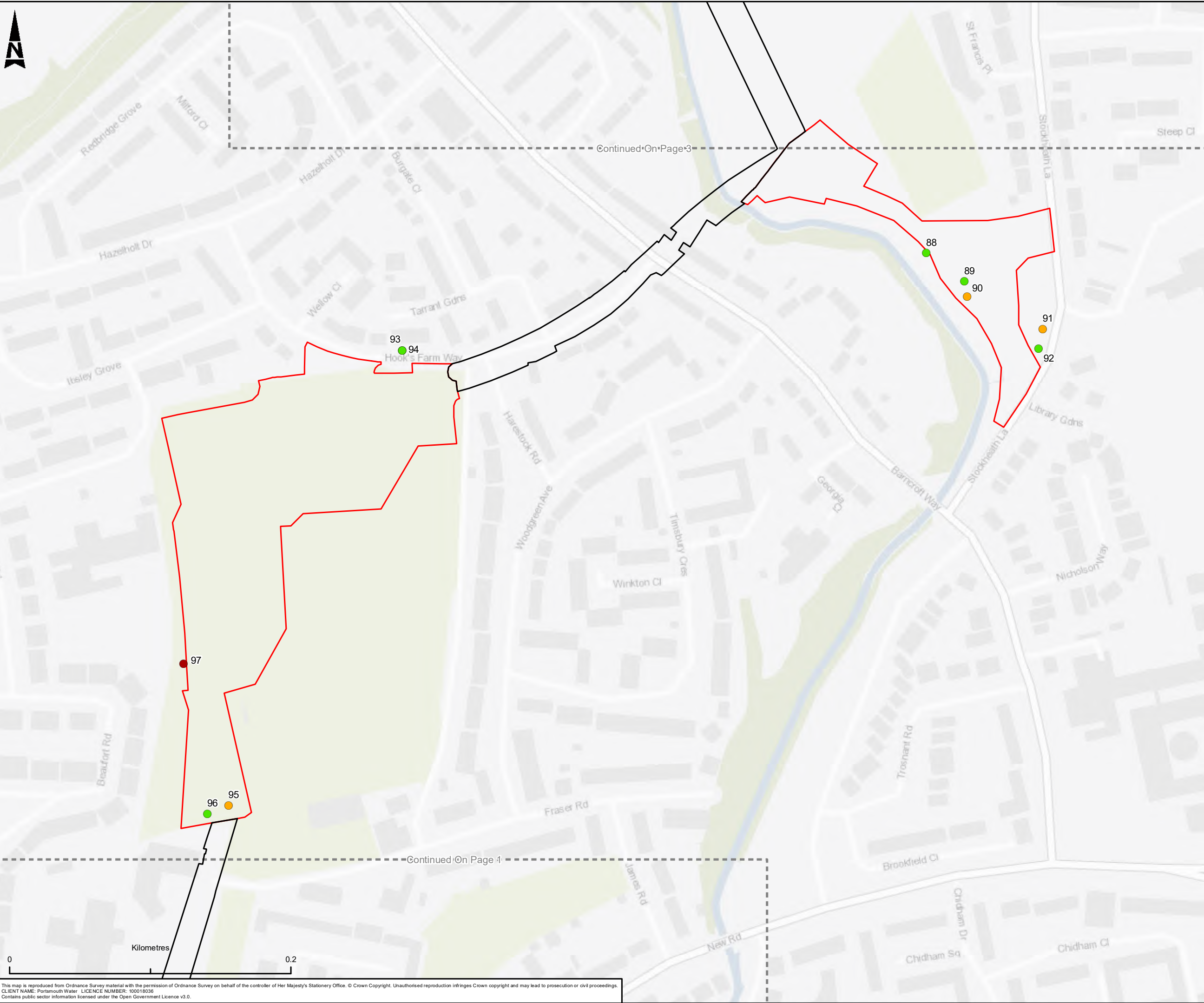
Project Title

HAVANT THICKET RESERVOIR

Drawing Title

**FIGURE 9.12
PIPELINE GROUND LEVEL TREE
ASSESSMENTS AND BUILDING PRELIMINARY
ROOST ASSESSMENTS FOR BATS**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Ground Level Tree Assessment Results

- High Suitability
- Moderate Suitability
- Low Suitability

NOTE: Labels on figure refer to tree tag numbers and building references. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the ground level tree assessments and preliminary roost assessments undertaken in relation to roosting bats. Trees not identified on this figure have been assessed as providing negligible suitability for roosting bats.

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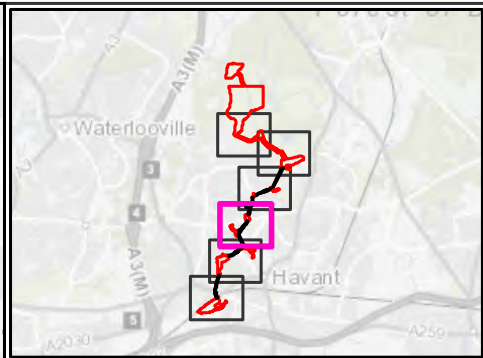
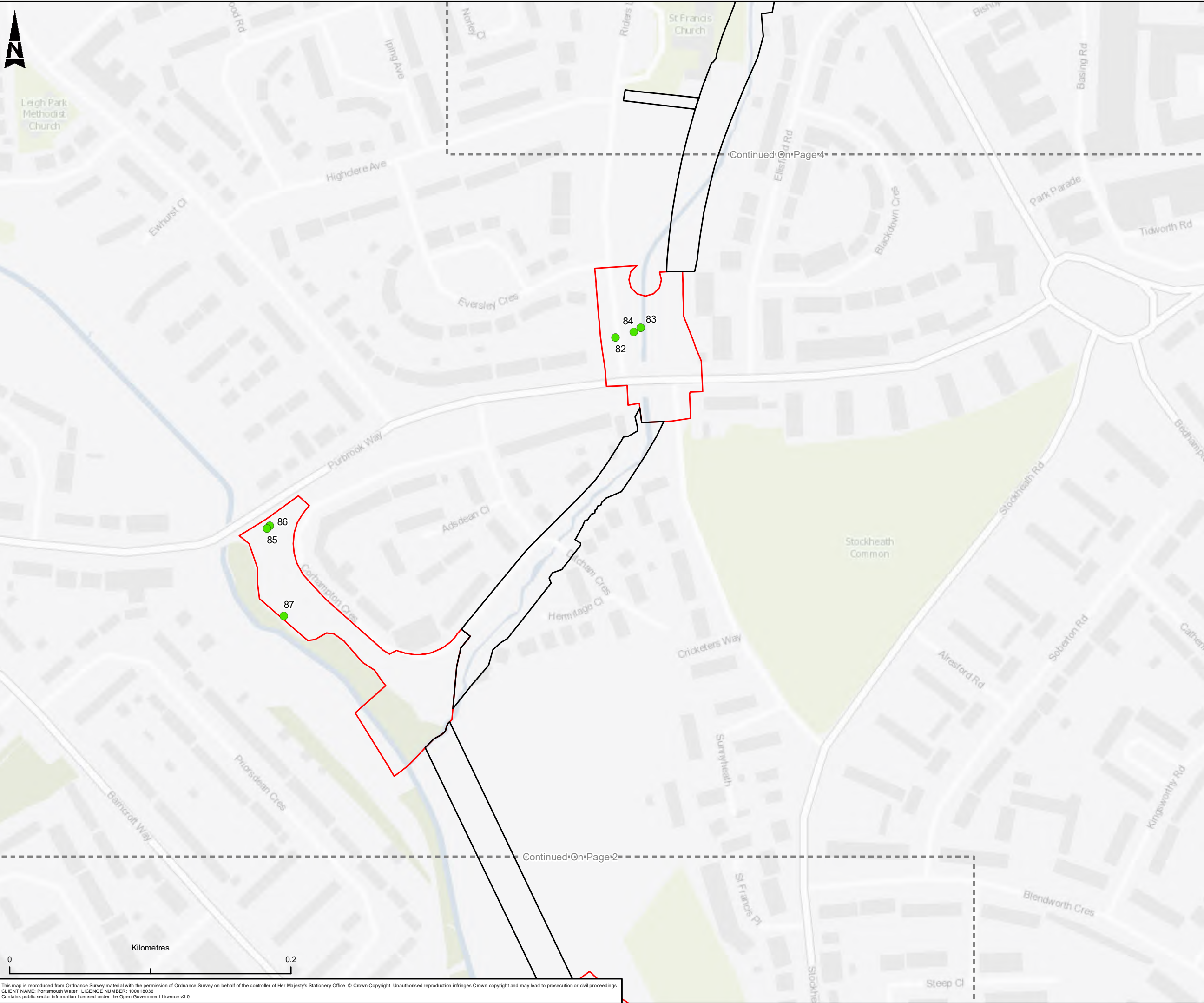
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5169117	2 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.12
PIPELINE GROUND LEVEL TREE
ASSESSMENTS AND BUILDING PRELIMINARY
ROOST ASSESSMENTS FOR BATS**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Ground Level Tree Assessment Results

- Low Suitability

NOTE: Labels on figure refer to tree tag numbers and building references. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the ground level tree assessments and preliminary roost assessments undertaken in relation to roosting bats. Trees not identified on this figure have been assessed as providing negligible suitability for roosting bats.

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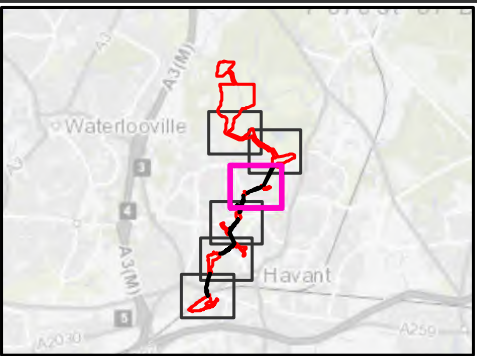
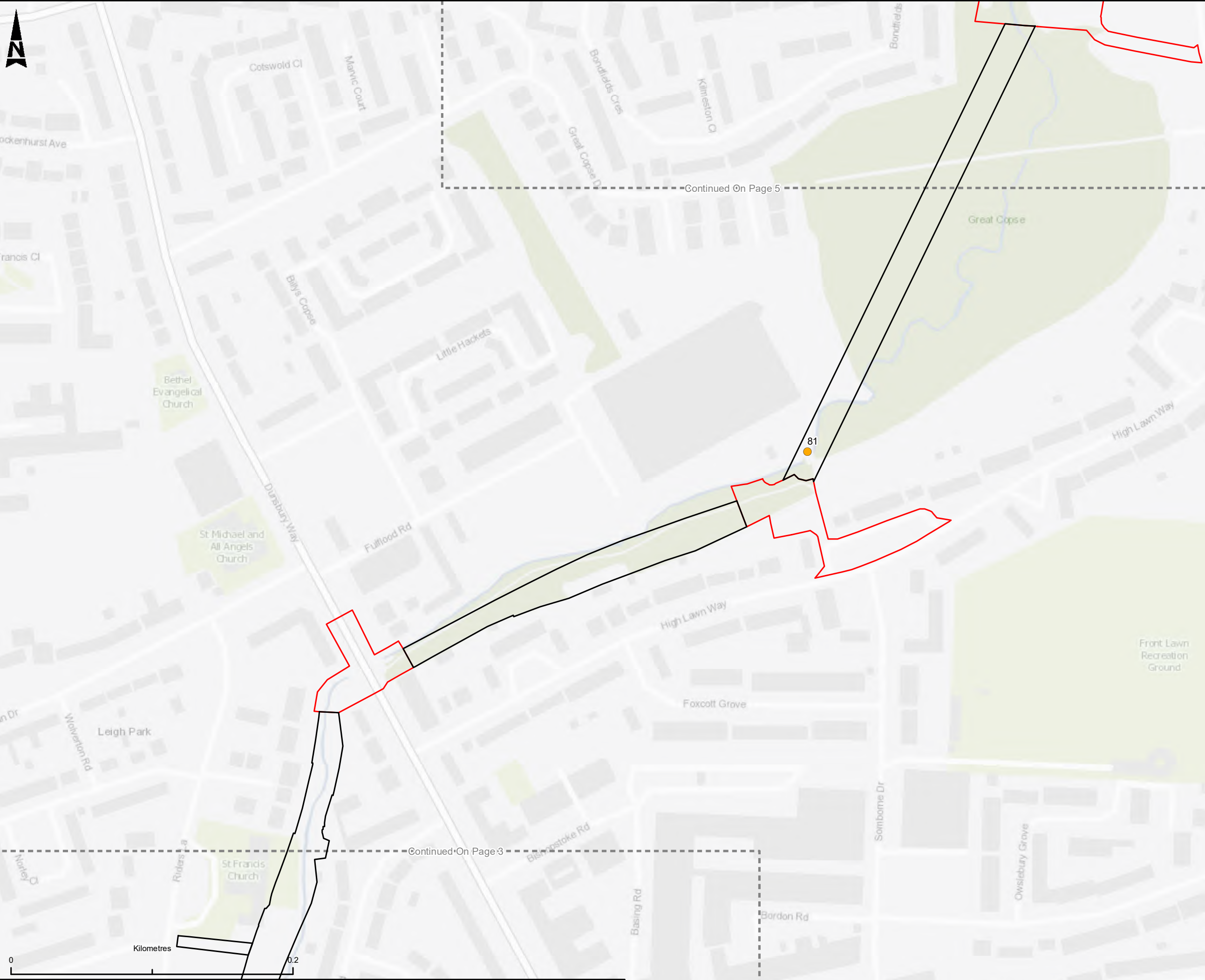
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5169117	3 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 9.12 PIPELINE GROUND LEVEL TREE ASSESSMENTS AND BUILDING PRELIMINARY ROOST ASSESSMENTS FOR BATS

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Ground Level Tree Assessment Results

- Moderate Suitability

NOTE: Labels on figure refer to tree tag numbers and building references. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the ground level tree assessments and preliminary roost assessments undertaken in relation to roosting bats. Trees not identified on this figure have been assessed as providing negligible suitability for roosting bats.

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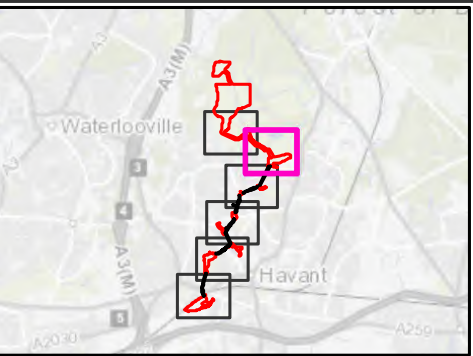
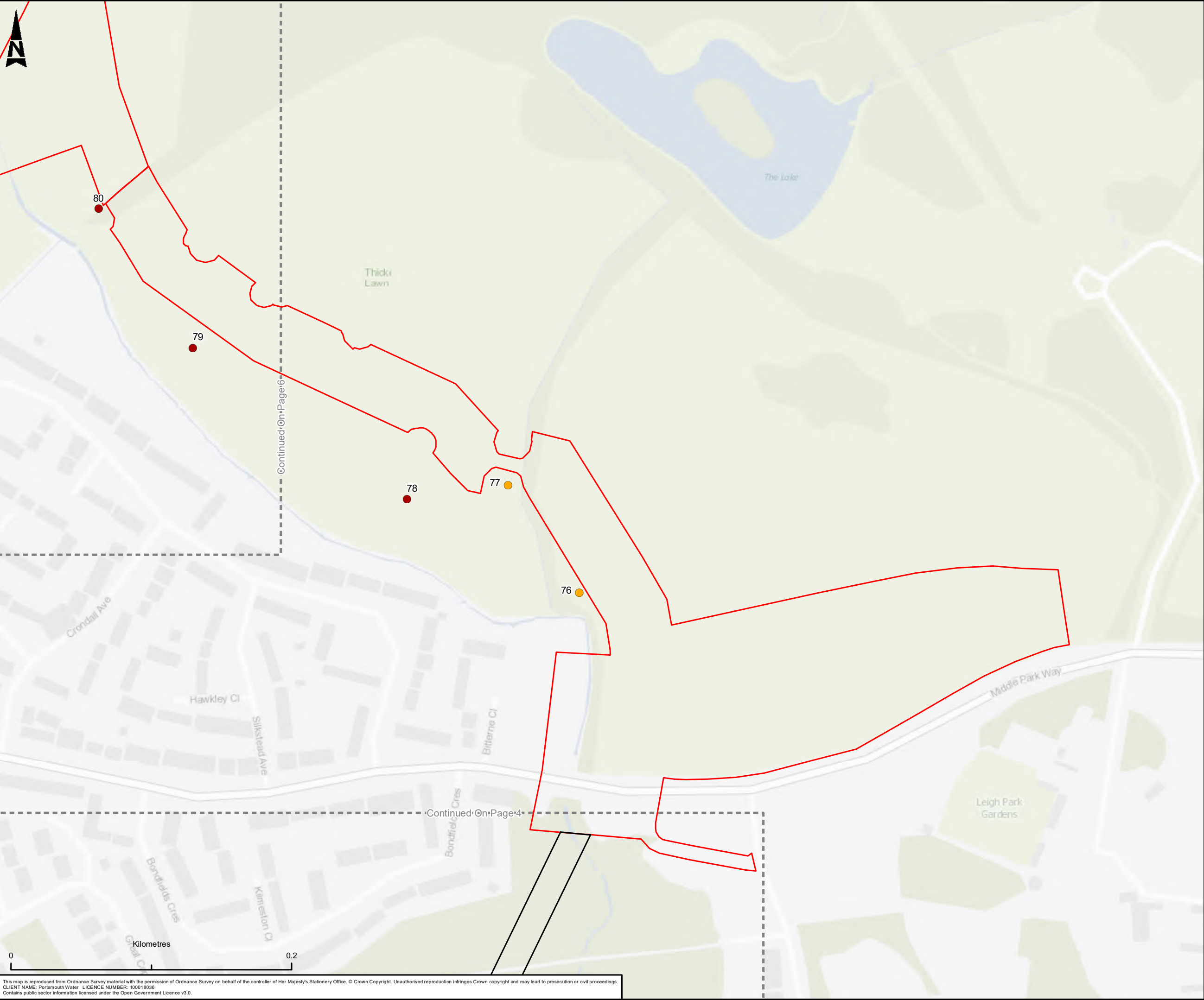
Project Title

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Drawing Title

**FIGURE 9.12
PIPELINE GROUND LEVEL TREE
ASSESSMENTS AND BUILDING PRELIMINARY
ROOST ASSESSMENTS FOR BATS**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Ground Level Tree Assessment Results

- High Suitability
- Moderate Suitability

NOTE: Labels on figure refer to tree tag numbers and building references. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the ground level tree assessments and preliminary roost assessments undertaken in relation to roosting bats. Trees not identified on this figure have been assessed as providing negligible suitability for roosting bats.

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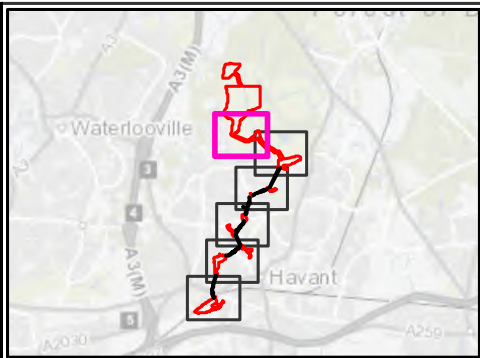
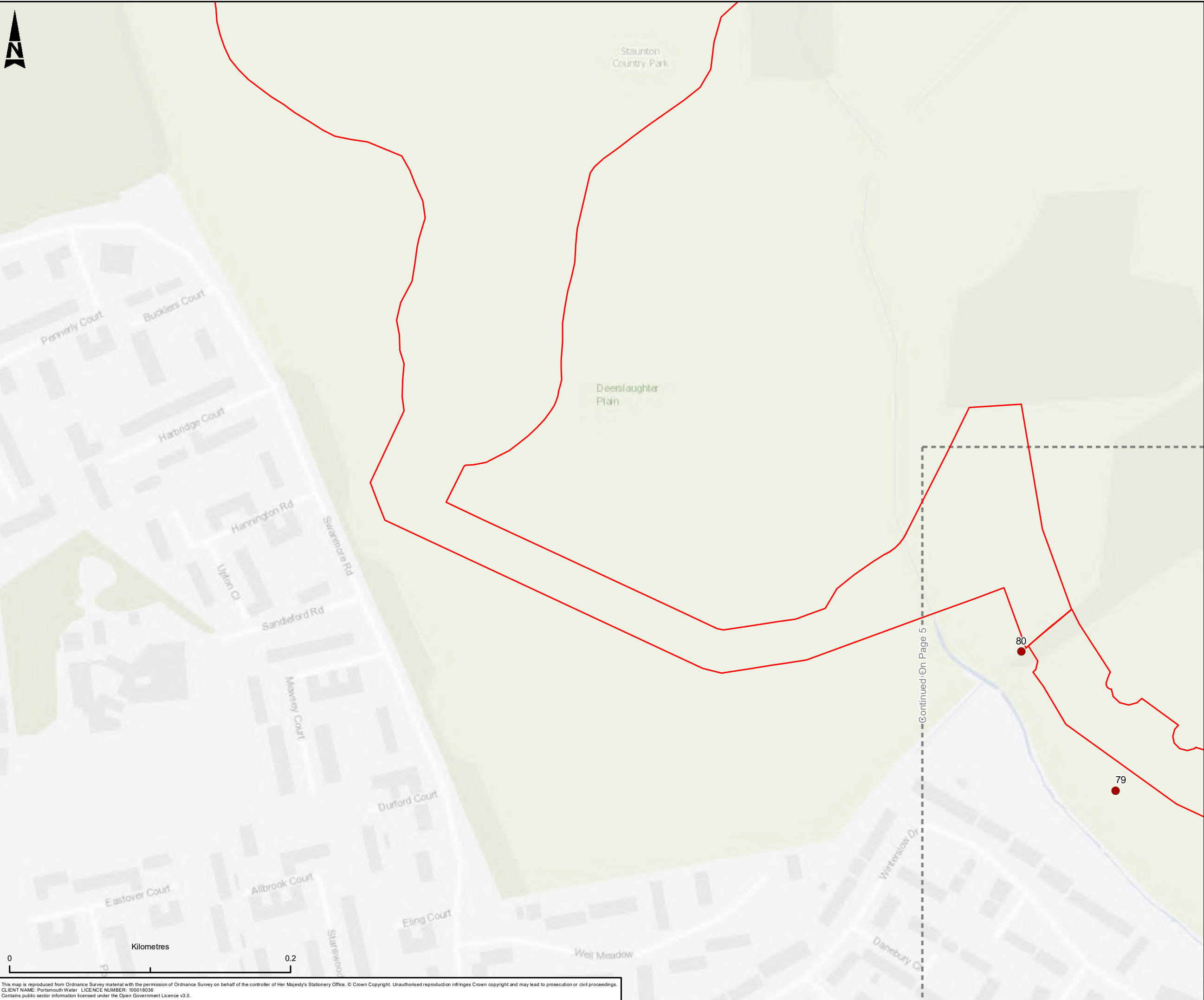
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5169117	5 of 6	1:2,500	A3

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Drawing Title
FIGURE 9.12 PIPELINE GROUND LEVEL TREE ASSESSMENTS AND BUILDING PRELIMINARY ROOST ASSESSMENTS FOR BATS

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Adjacent Map Sheets

Ground Level Tree Assessment Results

- High Suitability

NOTE: Labels on figure refer to tree tag numbers and building references. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the ground level tree assessments and preliminary roost assessments undertaken in relation to roosting bats. Trees not identified on this figure have been assessed as providing negligible suitability for roosting bats.

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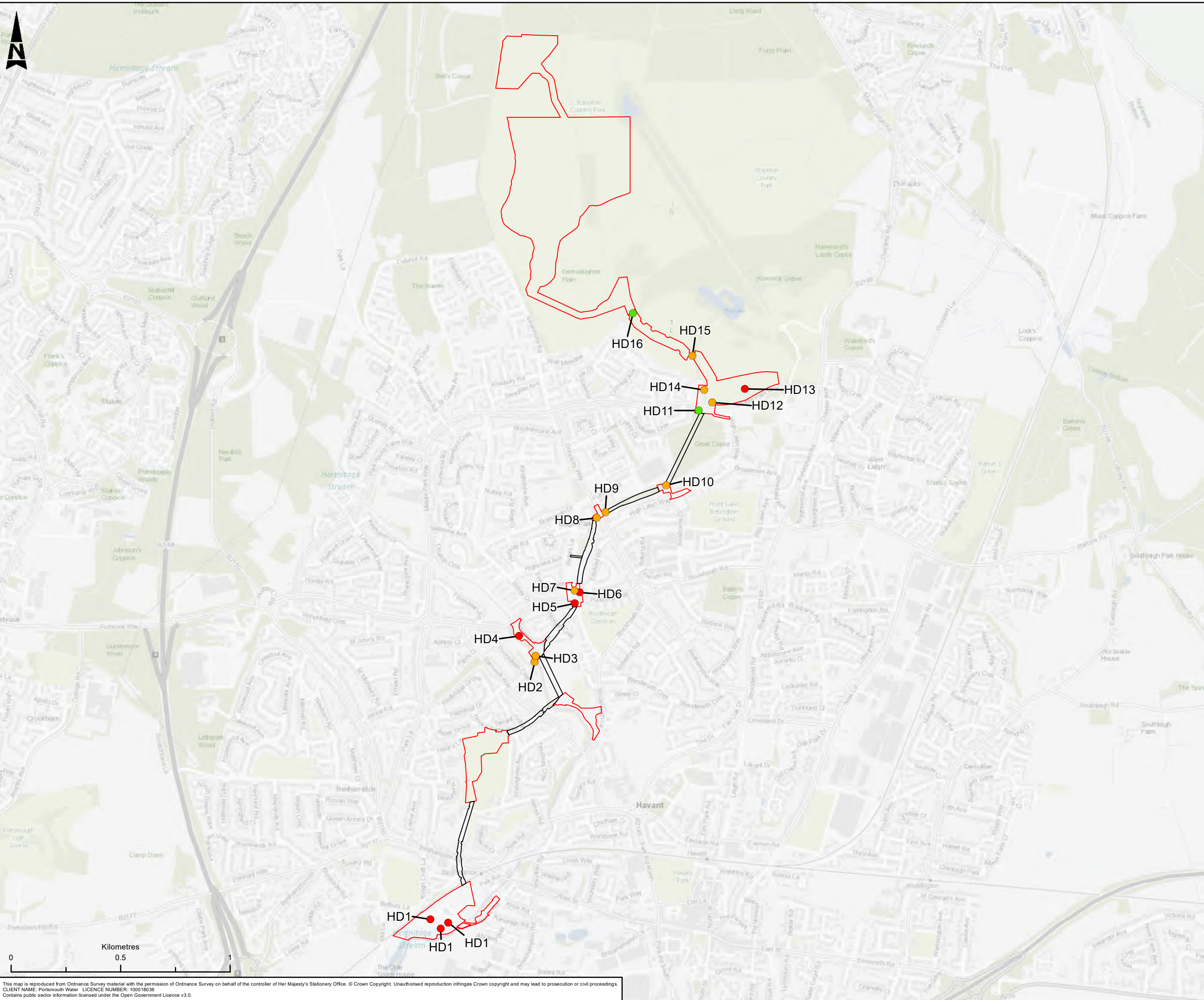
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**FIGURE 9.12
PIPELINE GROUND LEVEL TREE
ASSESSMENTS AND BUILDING PRELIMINARY
ROOST ASSESSMENTS FOR BATS**

Portsmouth Water Drawing Number	Rev
	C02



Surface and Underground Works

Underground Works Only

Habitat Suitability Assessment for Hazel Dormice

Optimal Suitability

Sub-optimal Suitability

Poor Suitability

NOTE: A scheme specific EPSM licence for hazel dormice will be in place for works at Shaft 7, Shaft 8 and Section 9, which correspond to locations HD10 to HD16. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the habitat suitability assessments undertaken in relation to hazel dormice. Habitats not identified on this figure have been assessed as providing negligible habitat suitability for hazel dormice.

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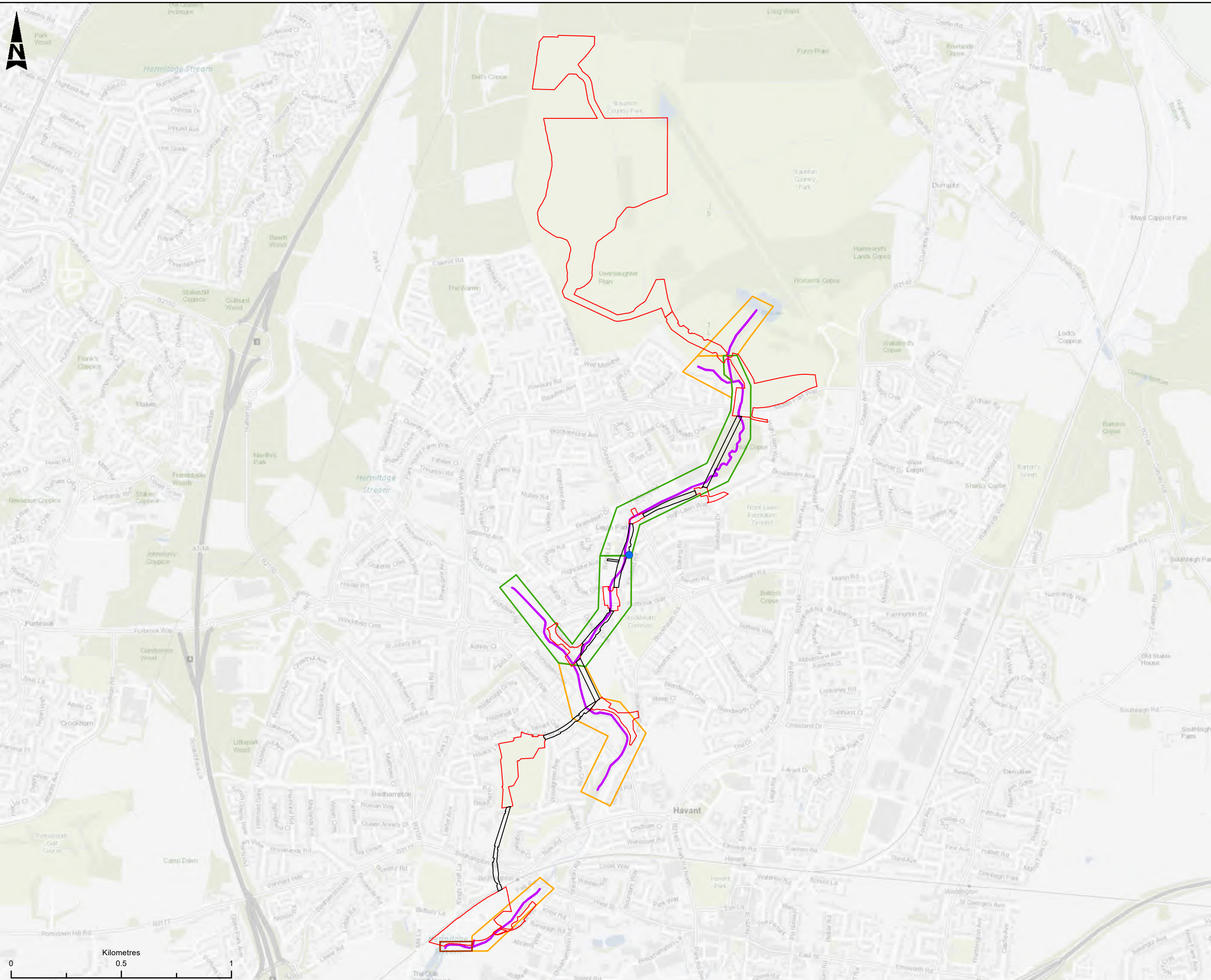
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Project Title
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FIGURE 9.13 PIPELINE HAZEL DORMOUSE HABITAT SUITABILITY ASSESSMENT

Portsmouth Water Drawing Number
C02

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Surface and Underground Works

Underground Works Only

●

Otter Spraint (Old)

Water Vole and Otter Survey Area

250 m Survey Area

Water Vole and Otter Survey Access Constraints

Full Access

Partial Access

No Access

NOTE: Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the water vole and otter survey.

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Project Title

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Drawing Title

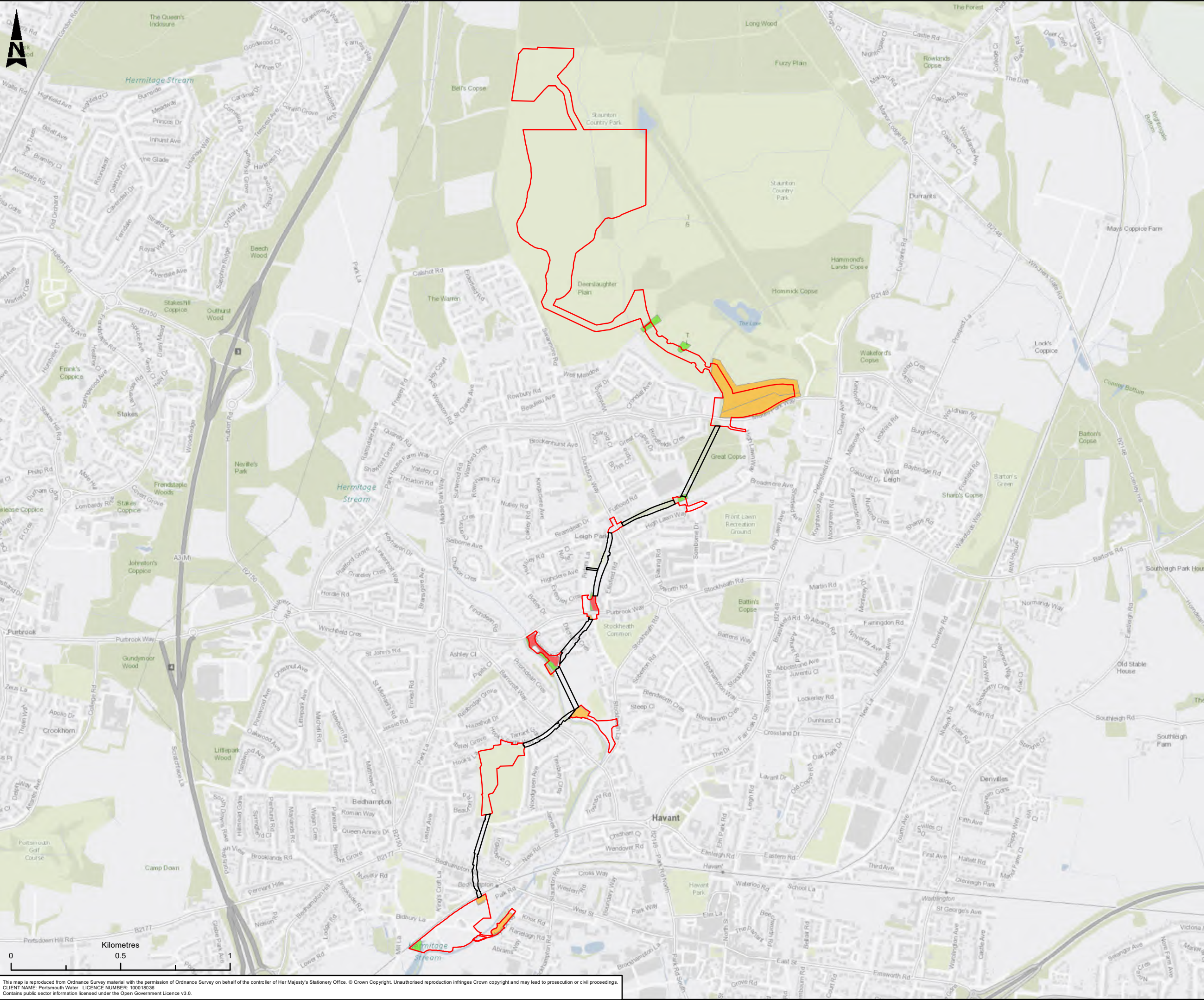
FIGURE 9.14 PIPELINE WATER VOLE AND OTTER SURVEY

Portsmouth Water Drawing Number

C02

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Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only

Habitat Suitability Assessment for Widespread Species of Reptile

- Optimal Suitability
- Sub-Optimal Suitability
- Poor Suitability

NOTE: Please refer to Appendix 9.16 Pipeline Ecological Update for further information on for further information on the habitat suitability assessments undertaken in relation to widespread species of reptile. Habitats not identified on this figure have been assessed as providing negligible habitat suitability for widespread species of reptile.

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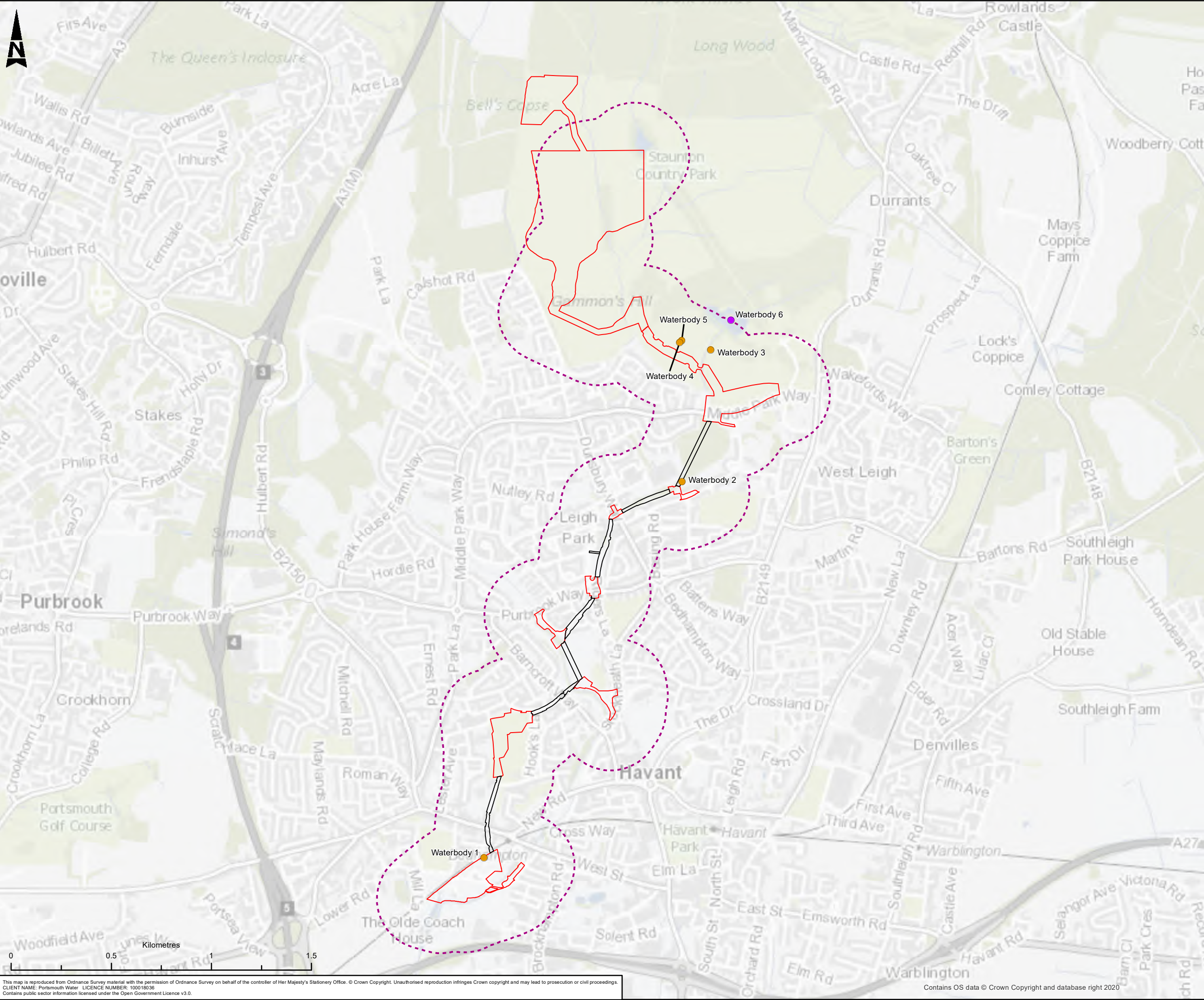
Project Title

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Drawing Title

FIGURE 9.15 PIPELINE REPTILE HABITAT SUITABILITY ASSESSMENT

Portsmouth Water Drawing Number	Rev
	C02



Surface and Underground Works

Underground Works Only

pla_atk_5169117_rlbsuonly250msurveybuf_ply_005

Great Crested Newt Survey Area

250 m Survey

Habitat Suitability Index (HSI) Assessment for Great Crested Newts

Poor Habitat Suitability (Permanent Waterbody)

Poor Habitat Suitability (Seasonal Waterbody)

This figure summarises the HSI assessments undertaken across publicly accessible waterbodies within 250 m of the Pipeline Scheme. Please refer to Appendix 9.16 Pipeline Ecological Update for further information on the HSI assessments undertaken in relation to great crested newts. Area not surveyed for the Pipeline Ecological Update, refer to relevant ecological mapping for the reservoir site contained in Volume 4 of the Environmental Statement.

C02	MMN	NW	AR	JF	PUBLISHED	05/04/2024
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5169117

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HAVANT THICKET RESERVOIR

Drawing Title

FIGURE 9.16
GREAT CRESTED NEWT
HABITAT SUITABILITY ASSESSMENT

Portsmouth Water Drawing Number

Rev

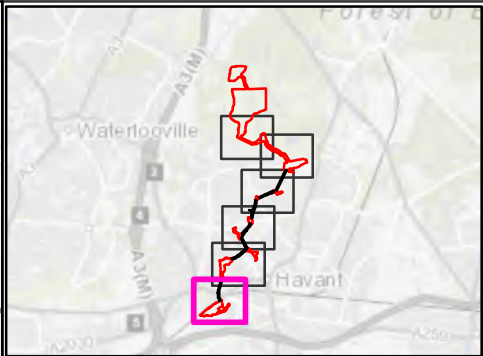
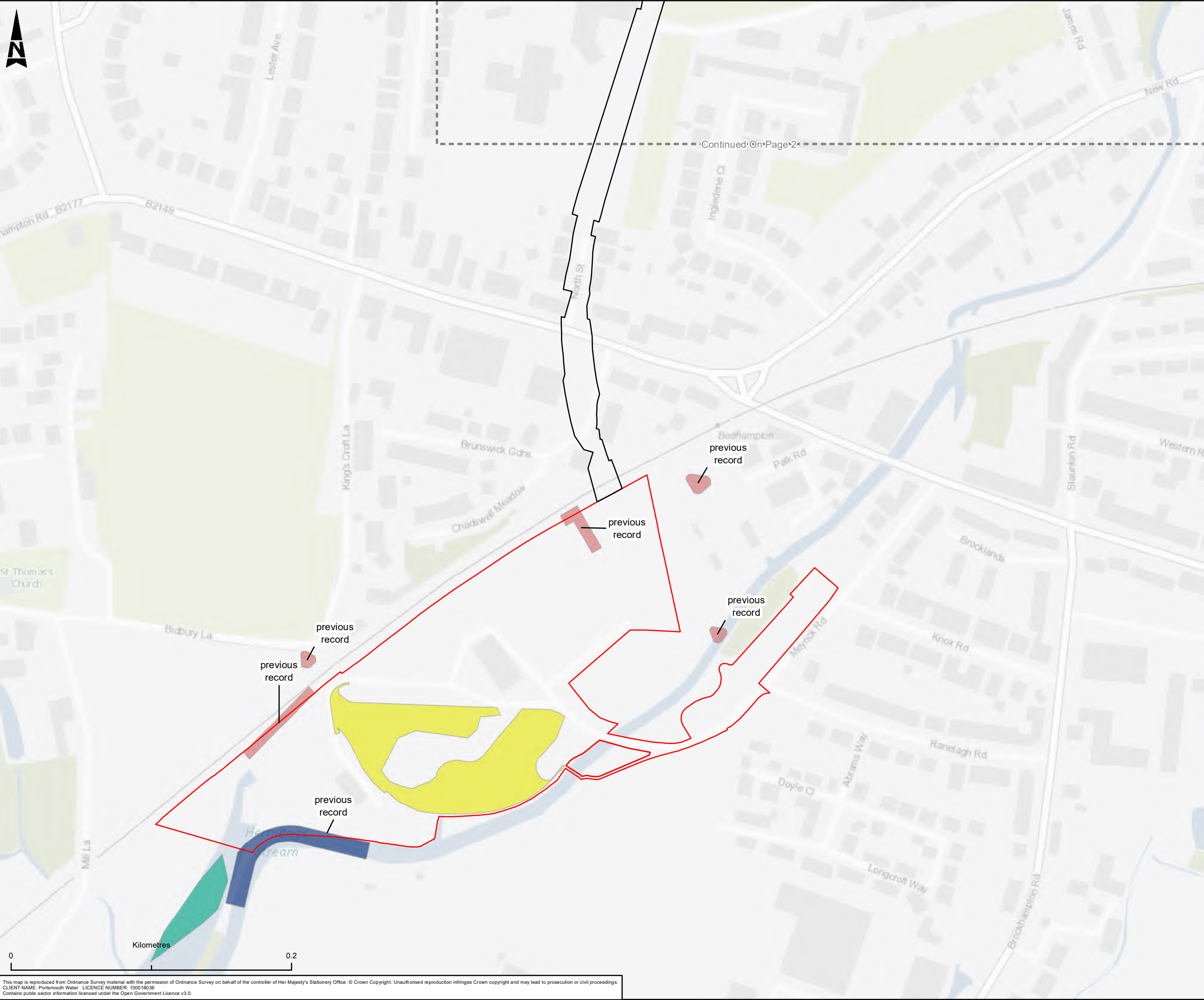
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Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Invasive Non-native Plant Species

- Butterfly Bush
- Himalayan Balsam
- Japanese Knotweed
- New Zealand Pygmyweed

NOTE: 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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Project	Originator	Volume	Location	Type	Role	Number	

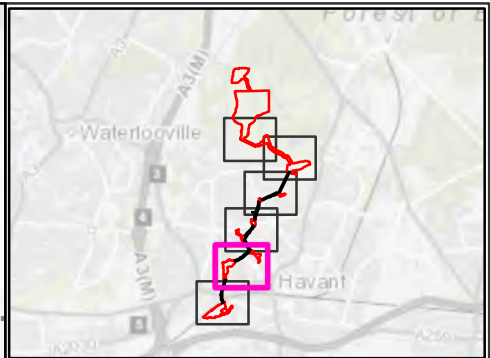
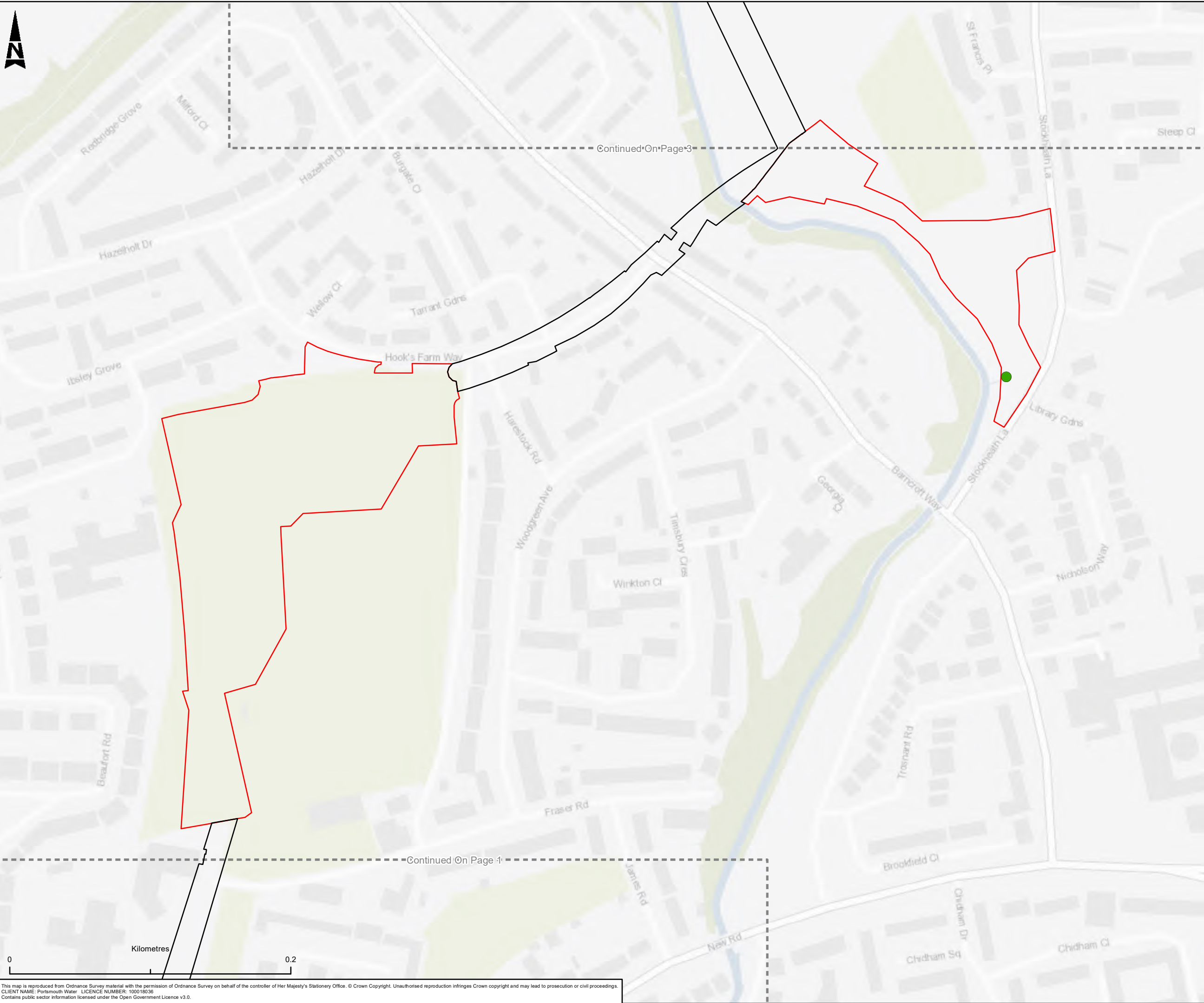
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Project Title
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Drawing Title
FIGURE 9.17 INVASIVE NON-NATIVE PLANT SPECIES

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Invasive Non-native Plant

- Montbretia

NOTE: 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and3 treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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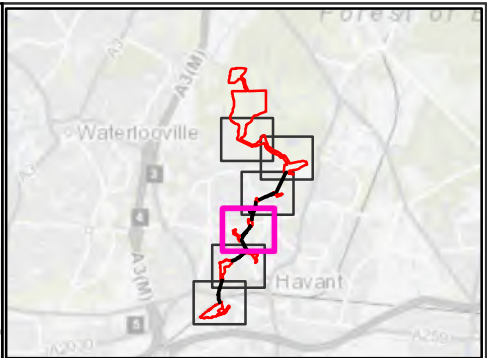
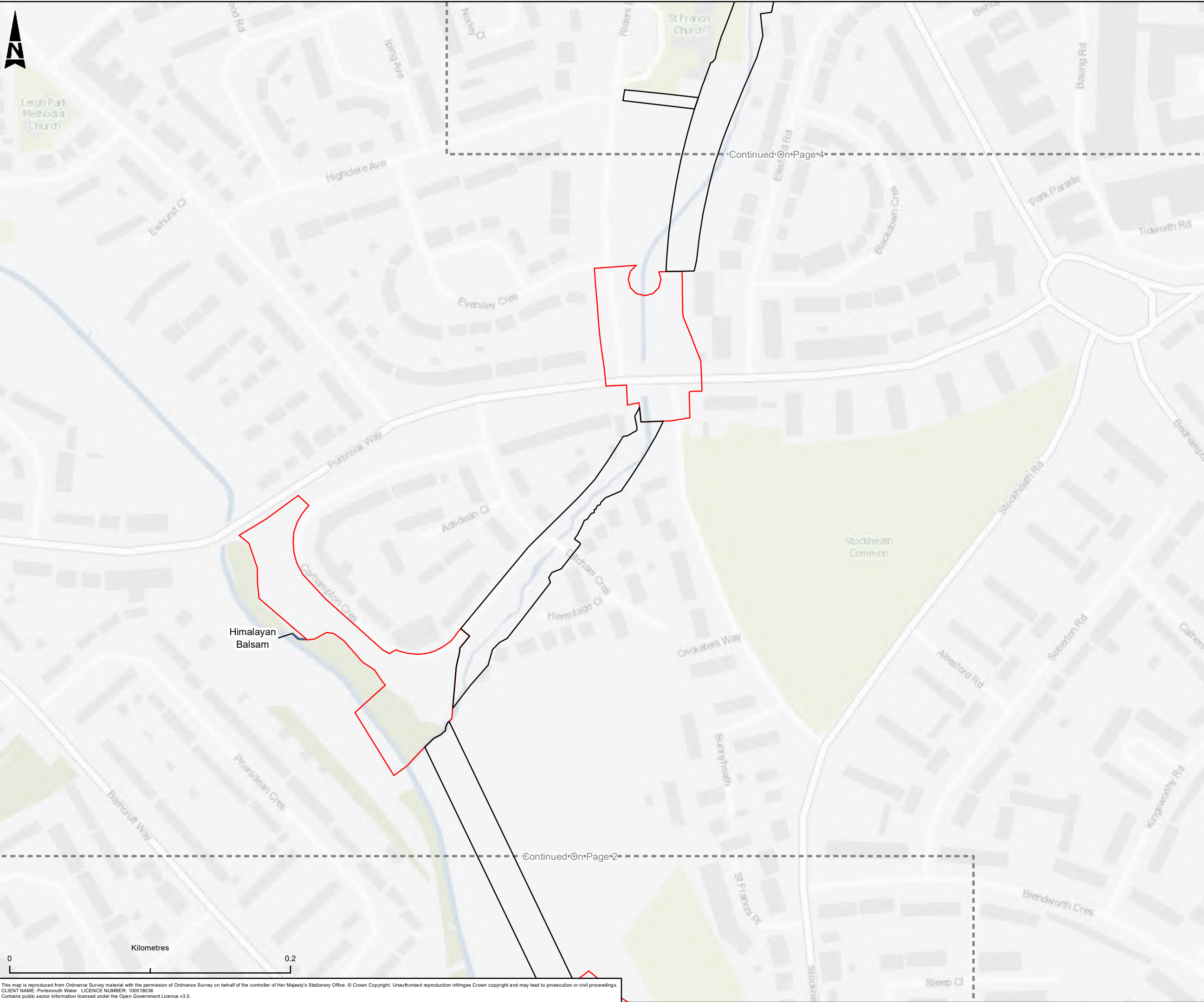
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Project Title
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Drawing Title
**FIGURE 9.17
INVASIVE NON-NATIVE
PLANT SPECIES**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Invasive Non-native Plant Species

- Himalayan Balsam

NOTE: 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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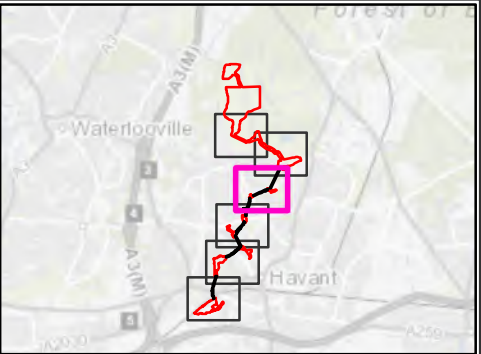
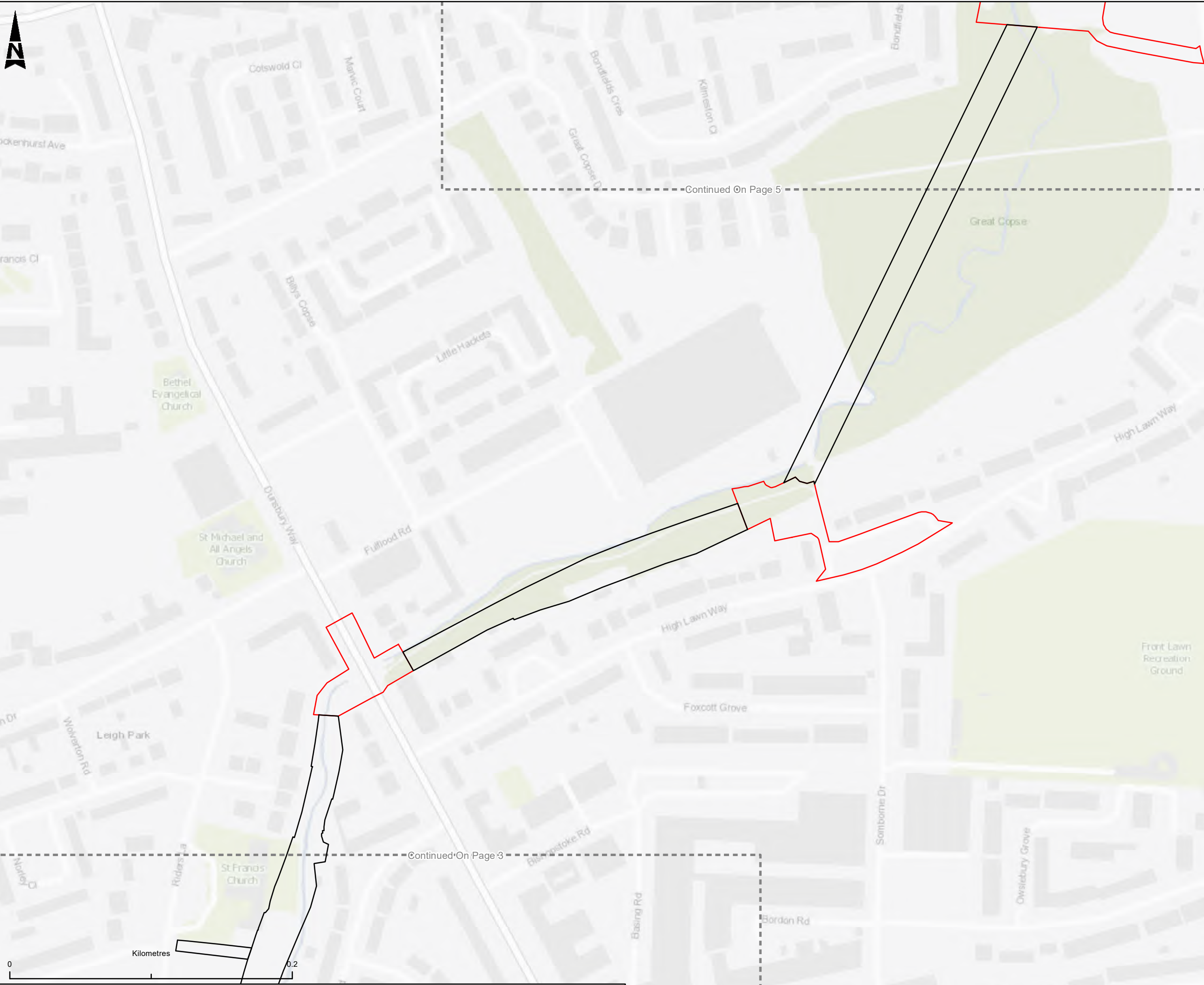
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Drawing Title
FIGURE 9.17 INVASIVE NON-NATIVE PLANT SPECIES

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

-  Surface and Underground Works
-  Underground Works Only
-  Adjacent Map Sheets

NOTE: 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and3 treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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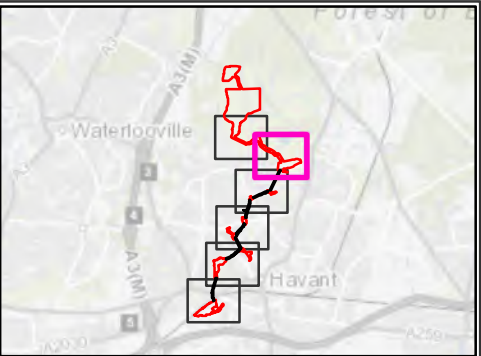
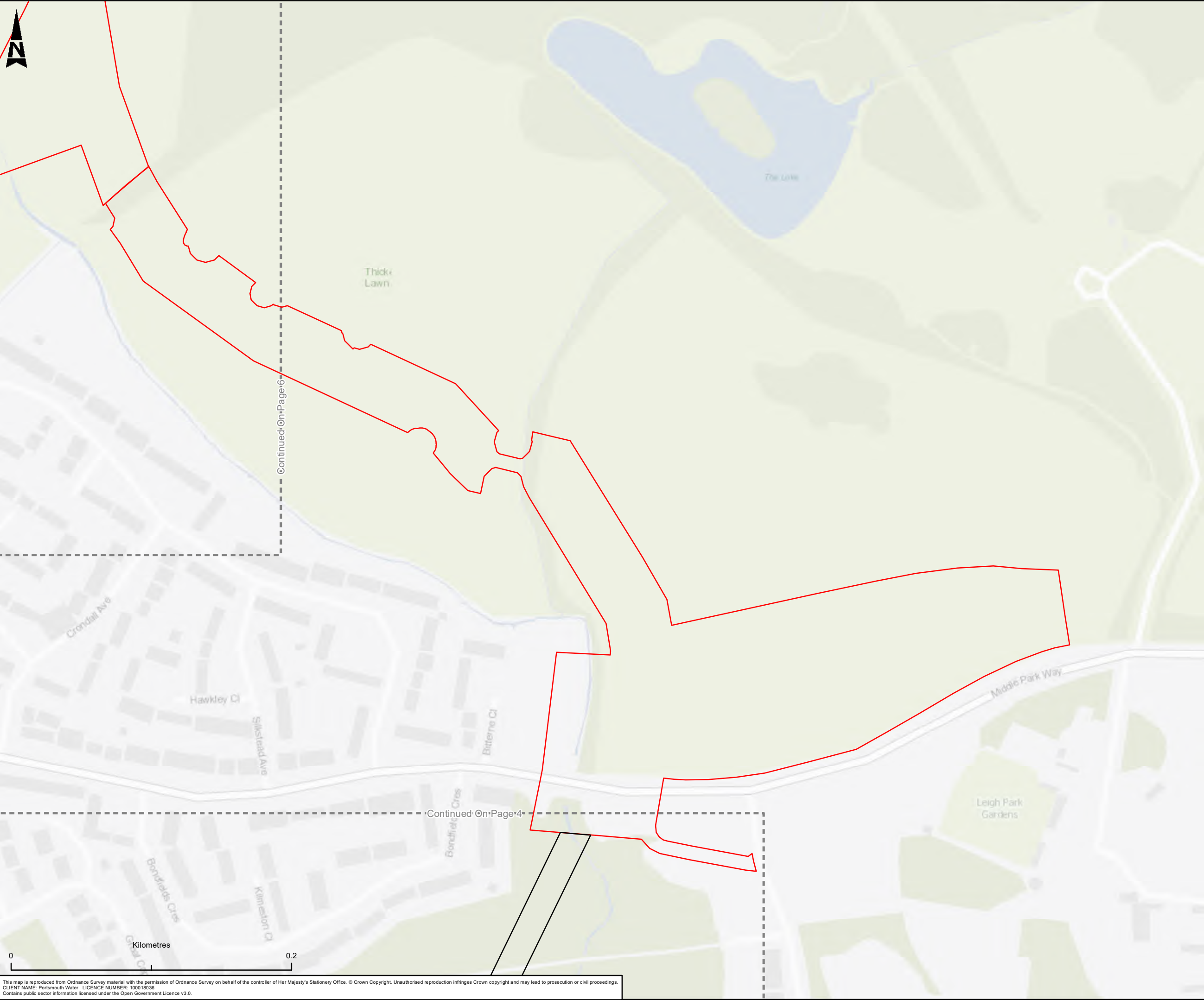


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Project Title
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Drawing Title
FIGURE 9.17 INVASIVE NON-NATIVE PLANT SPECIES

Portsmouth Water Drawing Number	Rev
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Pipeline Scheme Red Line Boundary

-  Surface and Underground Works
-  Underground Works Only
-  Adjacent Map Sheets

NOTE: 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and3 treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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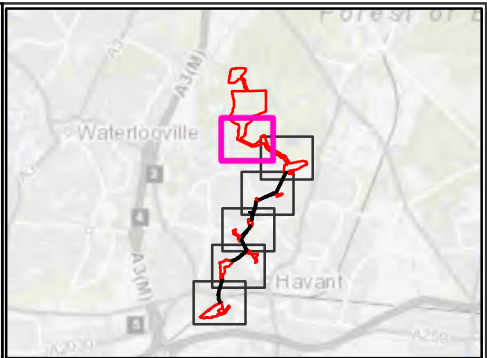
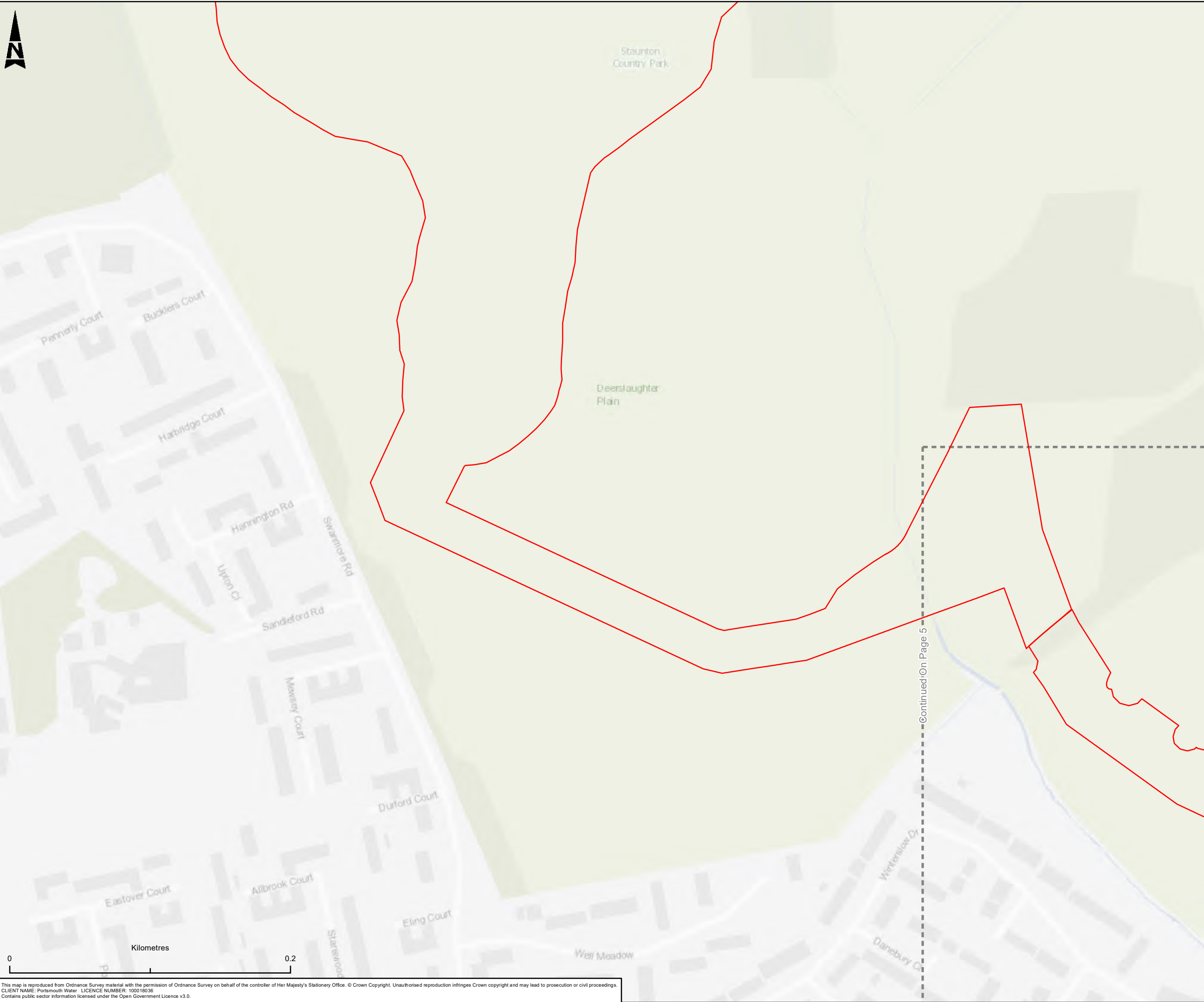


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Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 9.17 INVASIVE NON-NATIVE PLANT SPECIES

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Adjacent Map Sheets

NOTE: 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and3 treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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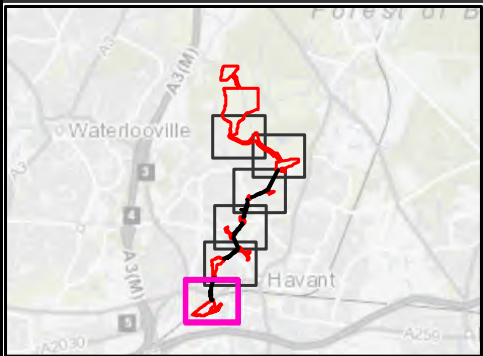
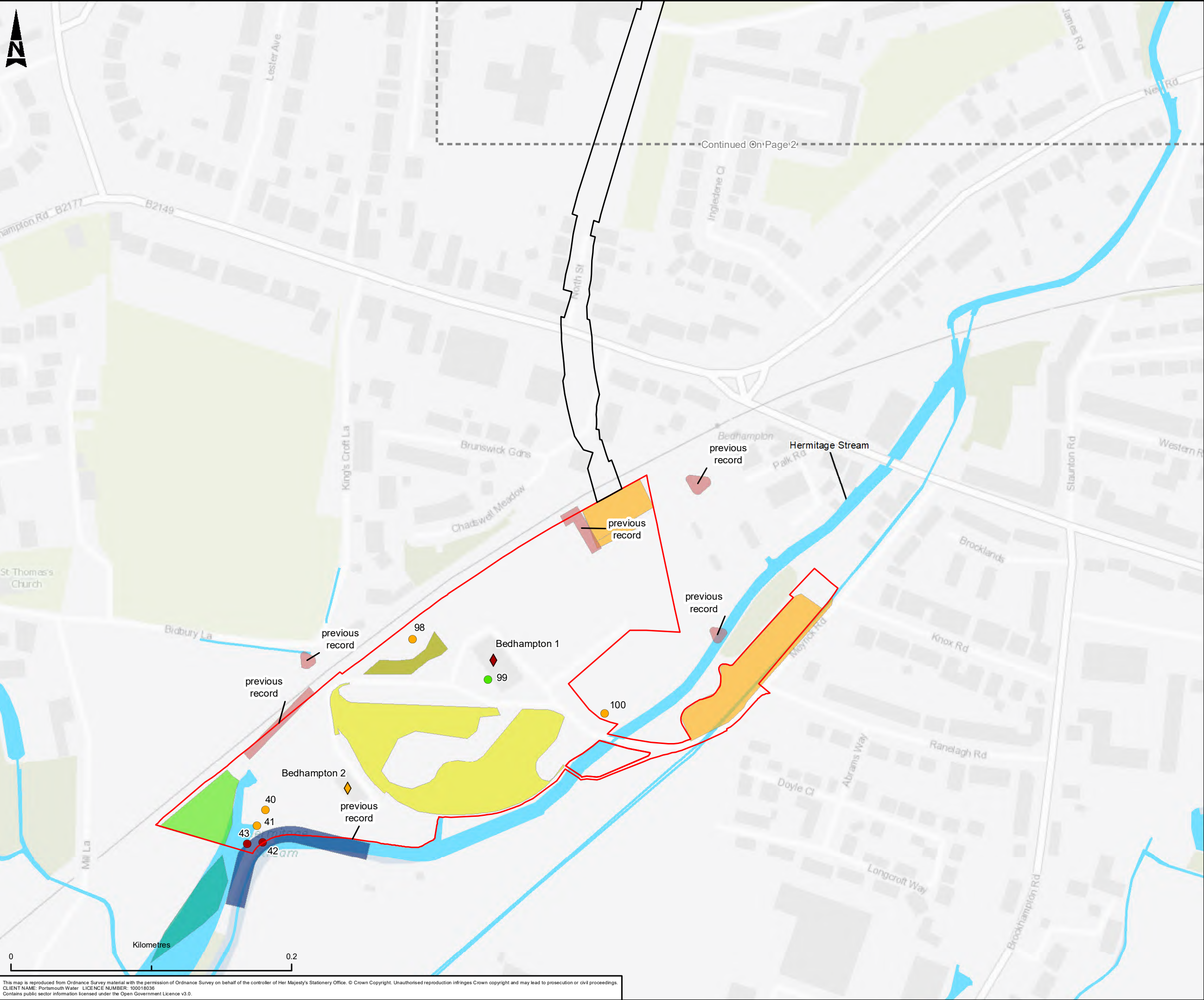
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5169117	6 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.17
INVASIVE NON-NATIVE
PLANT SPECIES**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets
- Priority Plants

Ground Level Tree Assessment for Bats

- High Suitability
- Moderate Suitability
- Low Suitability

Building Preliminary Roost Assessment for Bats

- High Suitability
- Moderate Suitability

Aquatic habitat

- Aquatic Feature

Habitat Suitability Assessment for Widespread Species of Reptile

- Optimal Suitability
- Sub-Optimal Suitability

Invasive Non-native Plant Species

- Butterfly Bush
- Himalayan Balsam
- Japanese Knotweed
- New Zealand Pygmyweed

NOTE: Only ecological constraints within or immediately adjacent to the surface works locations are shown. Please refer to ES Volume 4 for further information on environmental constraints. Badger setts have not been included to protect the species from persecution. 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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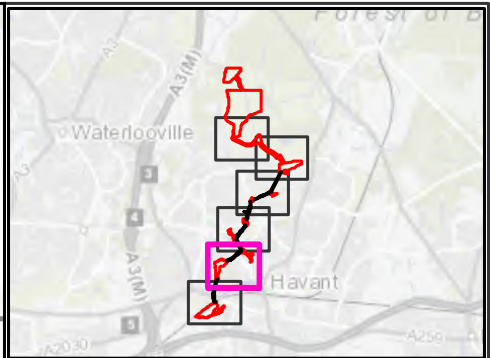
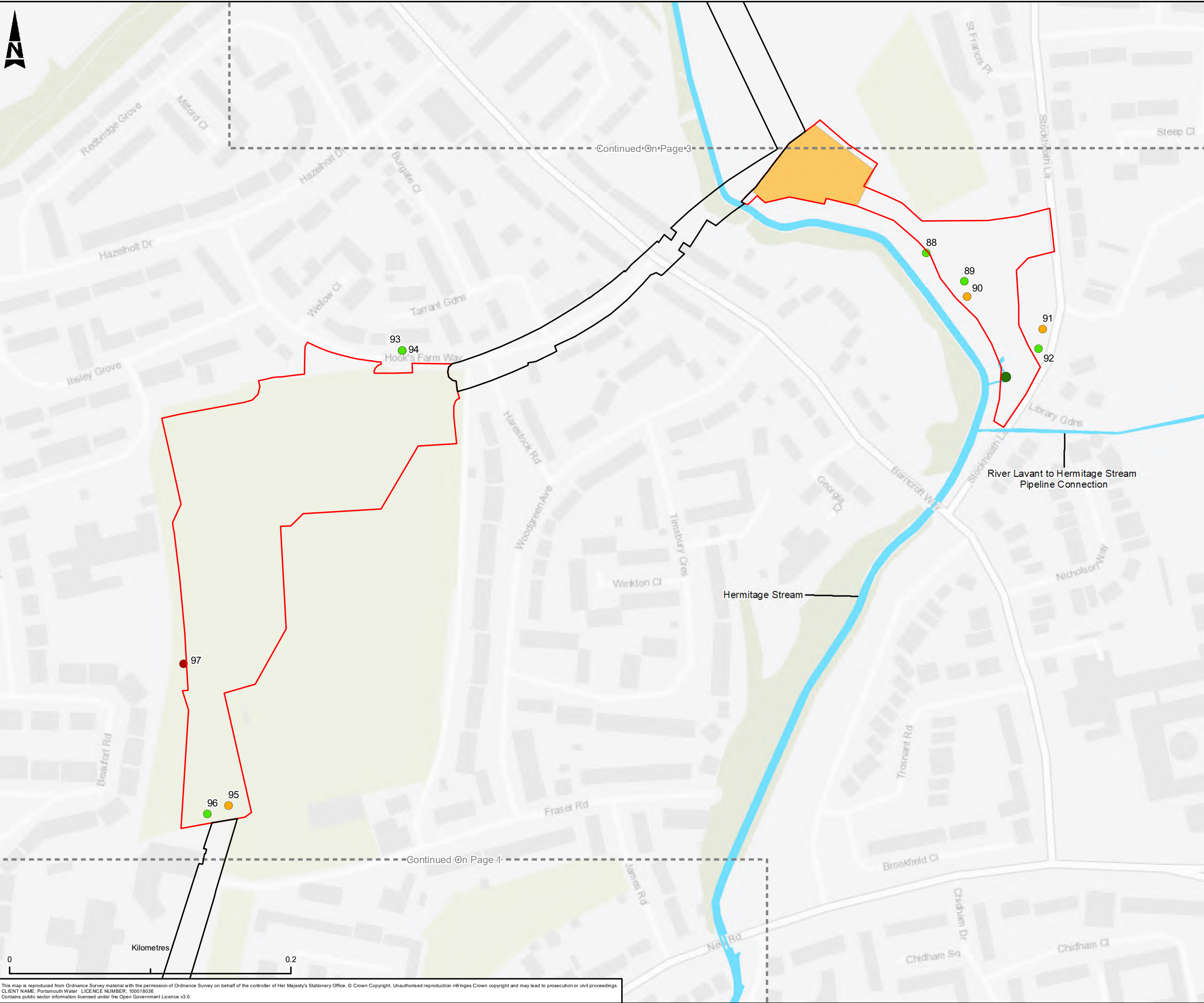
Project Title

HAVANT THICKET RESERVOIR

Drawing Title

**FIGURE 9.18
ECOLOGICAL CONSTRAINTS
PAGE 1 OF 6**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

Ground Level Tree Assessment for Bats

- High Suitability
- Moderate Suitability
- Low Suitability

Invasive Non-native Plant Species

- Montbretia

Aquatic habitat

- Aquatic Feature

Habitat Suitability Assessment for Widespread Species of Reptile

- Sub-Optimal Suitability

NOTE: Only ecological constraints within or immediately adjacent to the surface works locations are shown. Please refer to ES Volume 4 for further information on environmental constraints. Badger setts have not been included to protect the species from persecution. Previous record annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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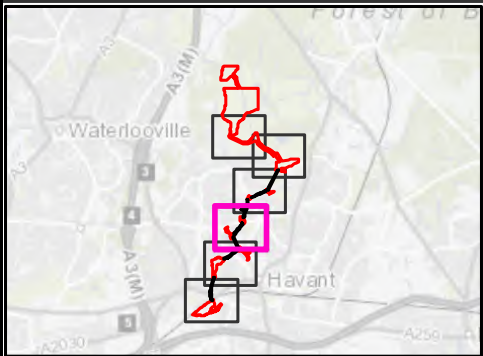
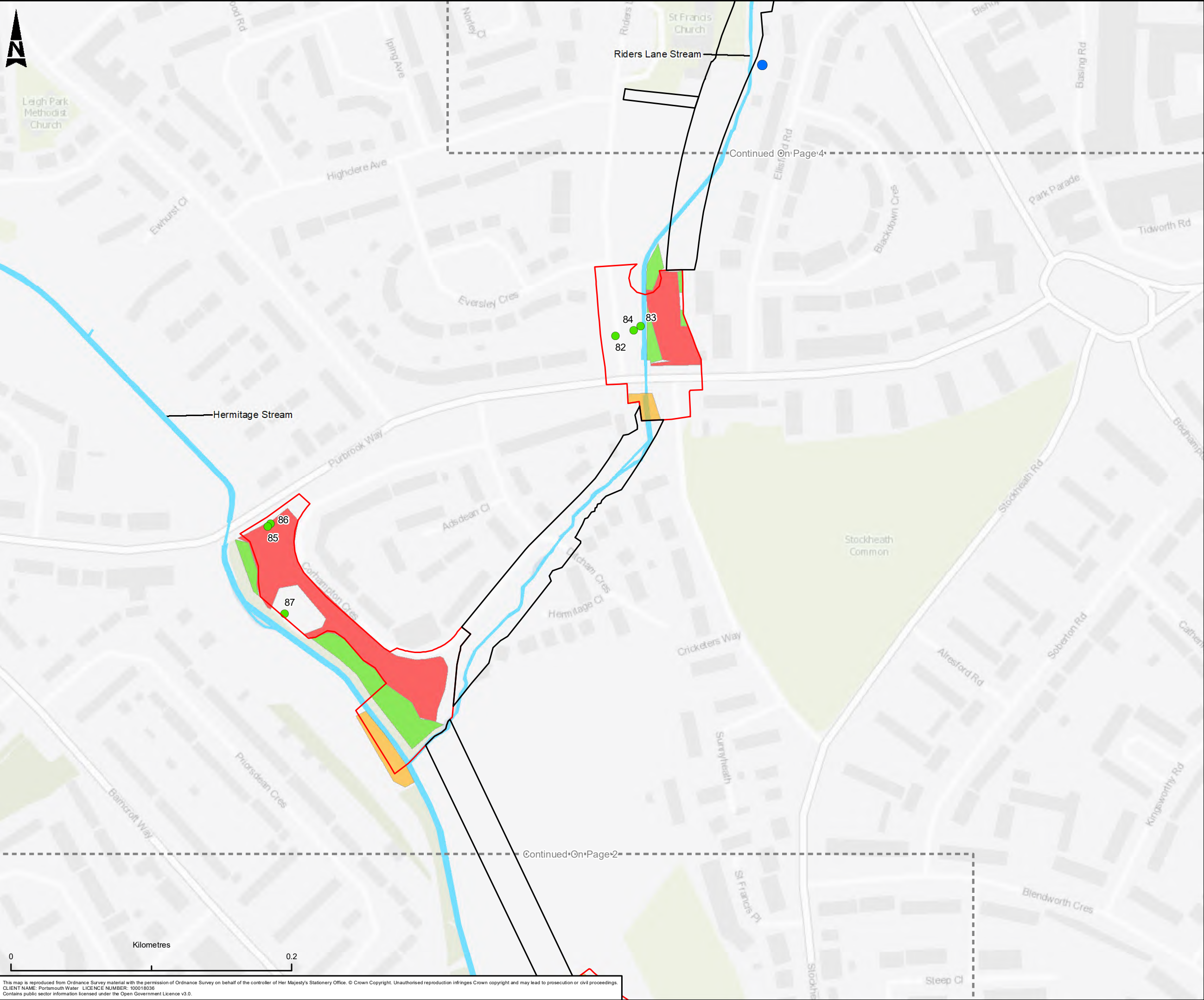
Project Title

HAVANT THICKET RESERVOIR

Drawing Title

FIGURE 9.18
ECOLOGICAL CONSTRAINTS
PAGE 2 OF 6

Portsmouth Water Drawing Number	Rev
	C02



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Adjacent Map Sheets
- Ground Level Tree Assessment for Bats**
- Low Suitability
- Otter Field Signs**
- Otter Spraint (Old)
- Aquatic habitat**
- Aquatic Feature
- Habitat Suitability Assessment for Widespread Species of Reptile**
- Optimal Suitability
 - Sub-Optimal Suitability
 - Poor Suitability

NOTE: Only ecological constraints within or immediately adjacent to the surface works locations are shown. Please refer to ES Volume 4 for further information on environmental constraints. Badger setts have not been included to protect the species from persecution. Previous record annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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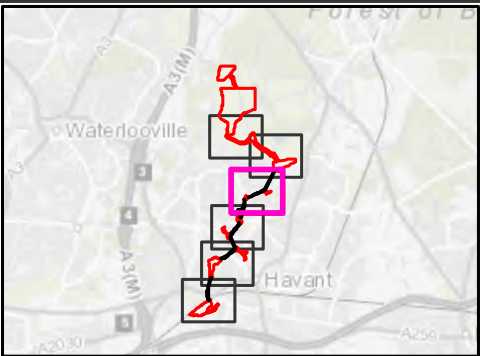
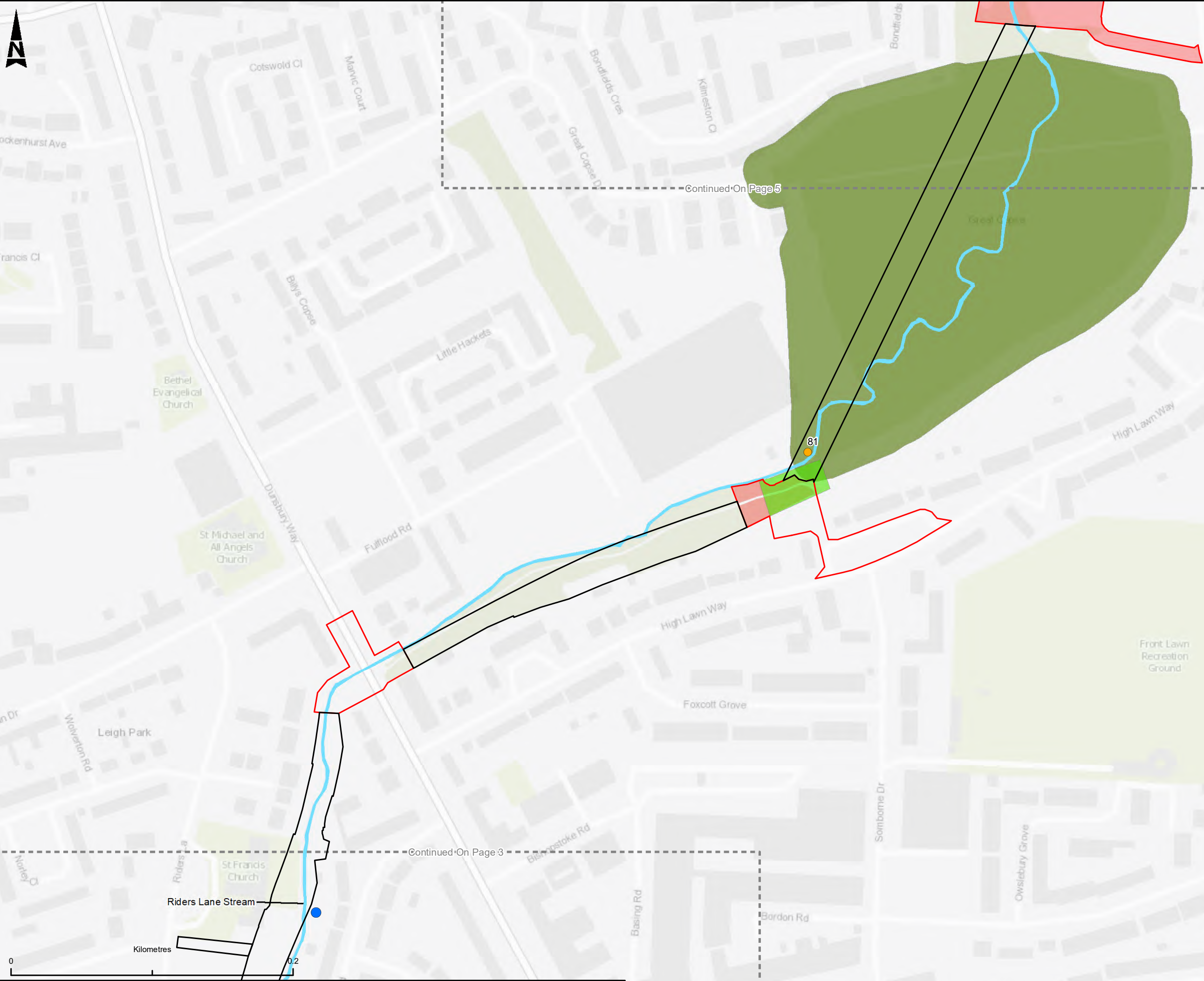
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HAVANT THICKET RESERVOIR

Drawing Title

**FIGURE 9.18
ECOLOGICAL CONSTRAINTS
PAGE 3 OF 6**

Portsmouth Water Drawing Number	Rev
	C02



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Adjacent Map Sheets
- Ground Level Tree Assessment for Bats**
- Moderate Suitability
- Otter Field Signs**
- Otter Spraint (Old)
- Aquatic habitat**
- Aquatic Feature
- Ancient Woodland**
- Ancient Woodland
- Hazel Dormouse EPSM Licence**
- Works to be undertaken under site-specific hazel dormouse EPSM licence
- Habitat Suitability Assessment for Widespread Species of Reptile**
- Optimal Suitability

NOTE: Only ecological constraints within or immediately adjacent to the surface works locations are shown. Please refer to ES Volume 4 for further information on environmental constraints. Badger setts have not been included to protect the species from persecution. 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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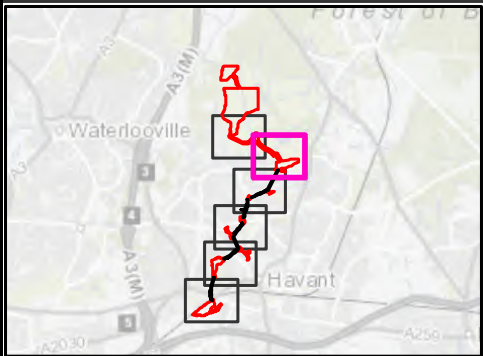
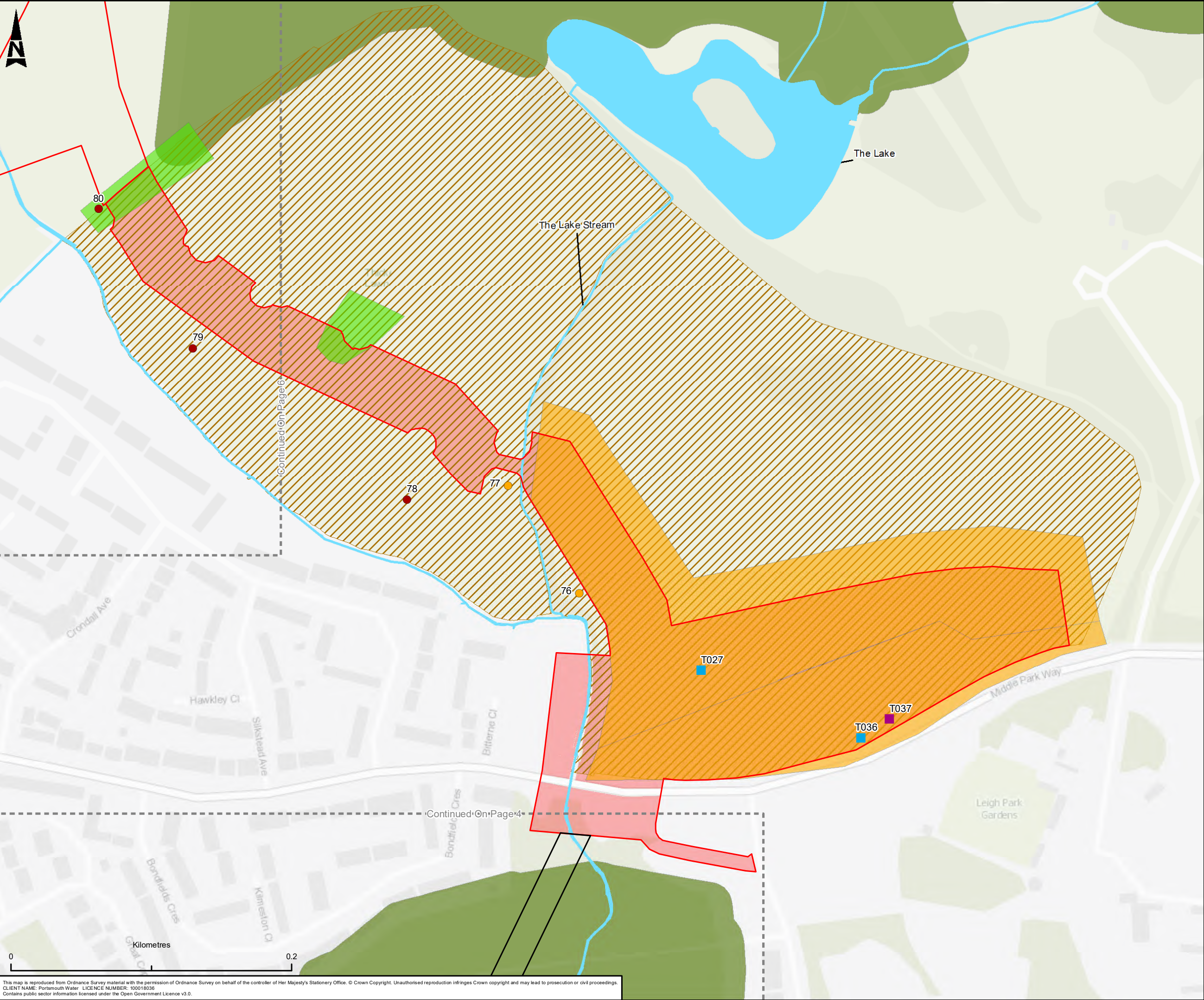


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Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.18
ECOLOGICAL CONSTRAINTS
PAGE 4 OF 6**

Portsmouth Water Drawing Number	Rev
	C02



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Adjacent Map Sheets
- Non-statutory Designated Sites**
- High Lawn SINC and Thicket Lawn SINC
- Ground Level Tree Assessment for Bats**
- High Suitability
 - Moderate Suitability
- Veteran/Notable/Ancient Tree Classification**
- Veteran/Notable
 - Locally Notable
- Aquatic habitat**
- Aquatic Feature
- Ancient Woodland**
- Ancient Woodland
- Hazel Dormouse EPSM Licence**
- Works to be undertaken under site-specific hazel dormouse EPSM licence
- Habitat Suitability Assessment for Widespread Species of Reptile**
- Optimal Suitability
 - Sub-Optimal Suitability

NOTE: Only ecological constraints within or immediately adjacent to the surface works locations are shown. Please refer to ES Volume 4 for further information on environmental constraints. Badger setts have not been included to protect the species from persecution. Previous record annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

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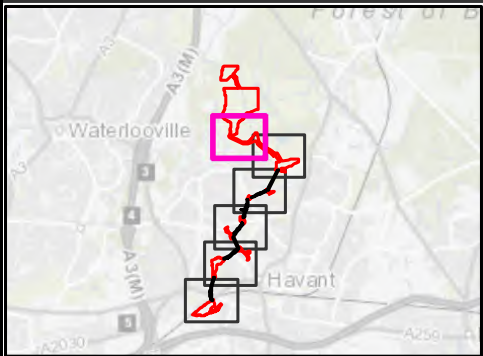
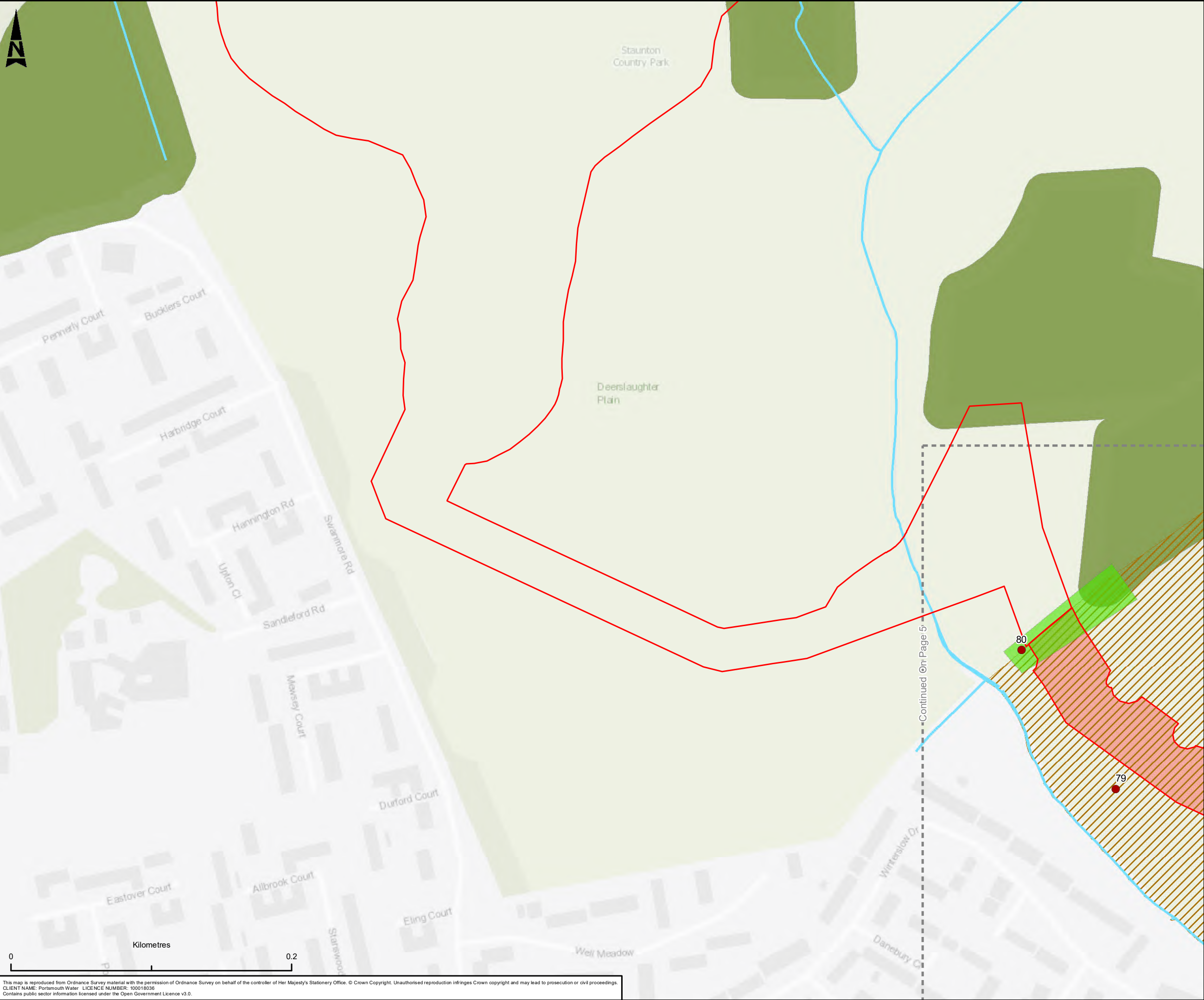


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5169117	5 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 9.18 ECOLOGICAL CONSTRAINTS PAGE 5 OF 6

Portsmouth Water Drawing Number	Rev
	C02



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Adjacent Map Sheets
- Non-statutory Designated Sites**
- High Lawn SINC and Thicket Lawn SINC
- Ground Level Tree Assessment for Bats**
- High Suitability
- Ancient Woodland**
- Ancient Woodland
- Hazel Dormouse EPSM Licence**
- Works to be undertaken under site-specific hazel dormouse EPSM licence
- Habitat Suitability Assessment for Widespread Species of Reptile**
- Optimal Suitability

NOTE: Only ecological constraints within or immediately adjacent to the surface works locations are shown. Please refer to ES Volume 4 for further information on environmental constraints. Badger setts have not been included to protect the species from persecution. 'Previous record' annotations relate to records of invasive non-native plant species previously recorded and treated by Portsmouth Water. Please refer to Appendix 9.16 Pipeline Ecological Update for further information.

C02	MMN	NW	AR	JF	PUBLISHED	03/04/2024
C01	FD	DE	AR	JF	PUBLISHED	27/06/2023
Rev	Dm By	Old By	Rev By	Auth By	Description	Date



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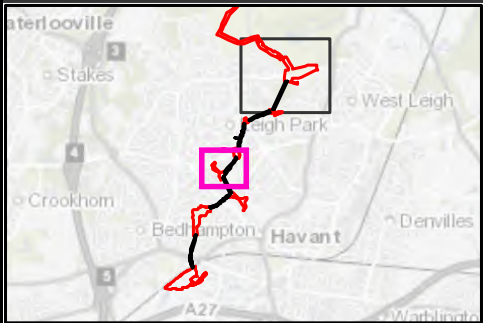
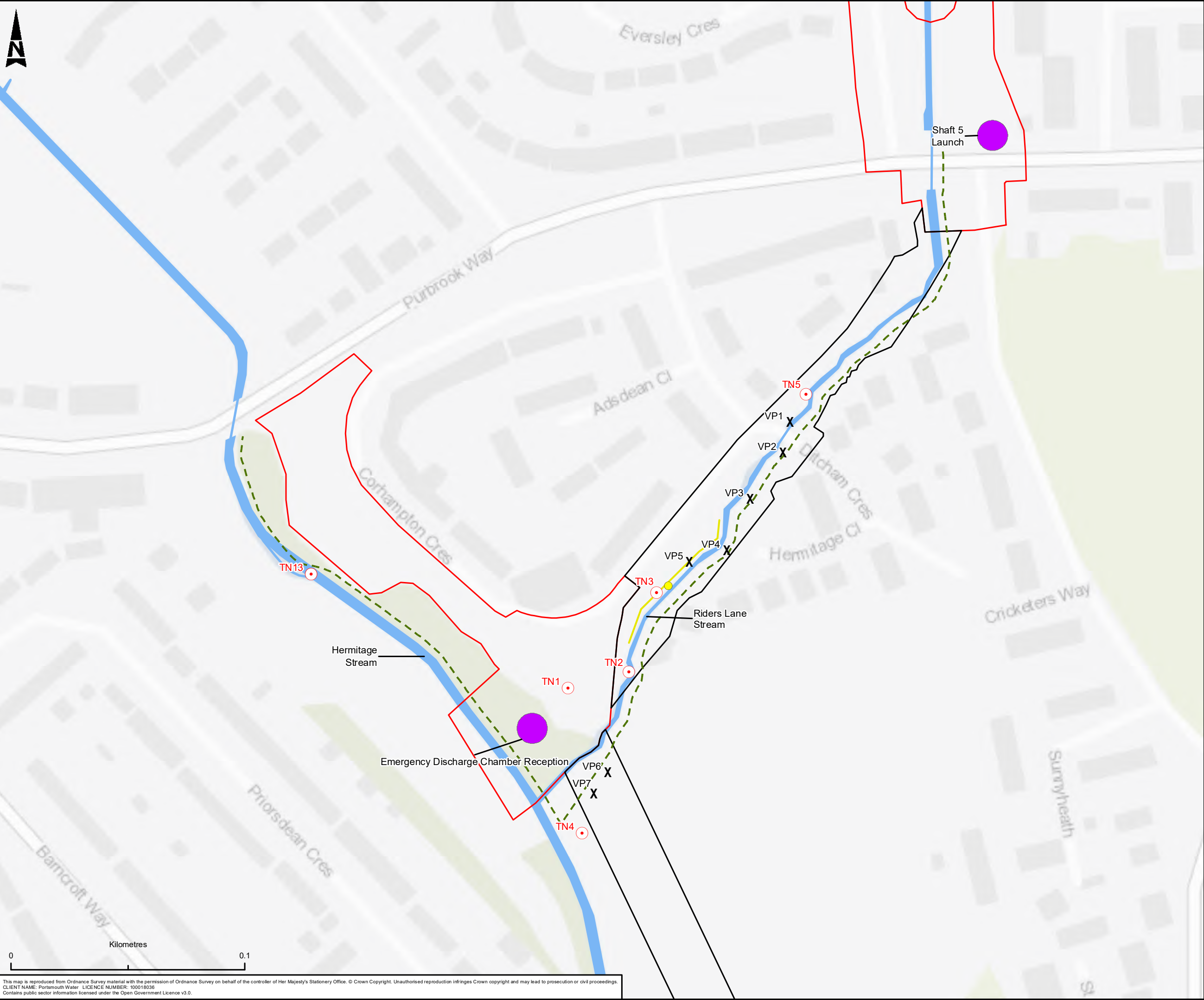


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5169117	6 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.18
ECOLOGICAL CONSTRAINTS
PAGE 6 OF 6**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only

Activity Surveys

- Original kingfisher sighting
- Vantage point
- Technical note

Pipeline Work Locations

- Pipeline Work Locations (Launch and Reception)

Initial Habitat Suitability Assessment

- Route
- Suitable nesting habitat

Site features

- Waterbodies

C02	EN	EV	AR	JF	PUBLISHED	21/05/2024
C01	NW	EV	AR	JF	PUBLISHED	21/05/2024
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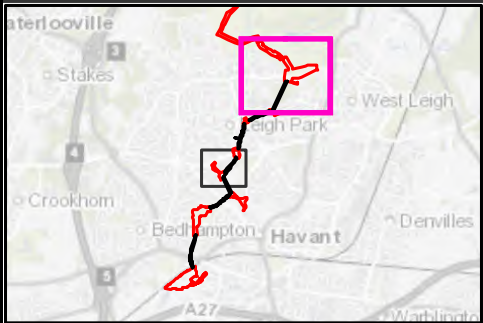
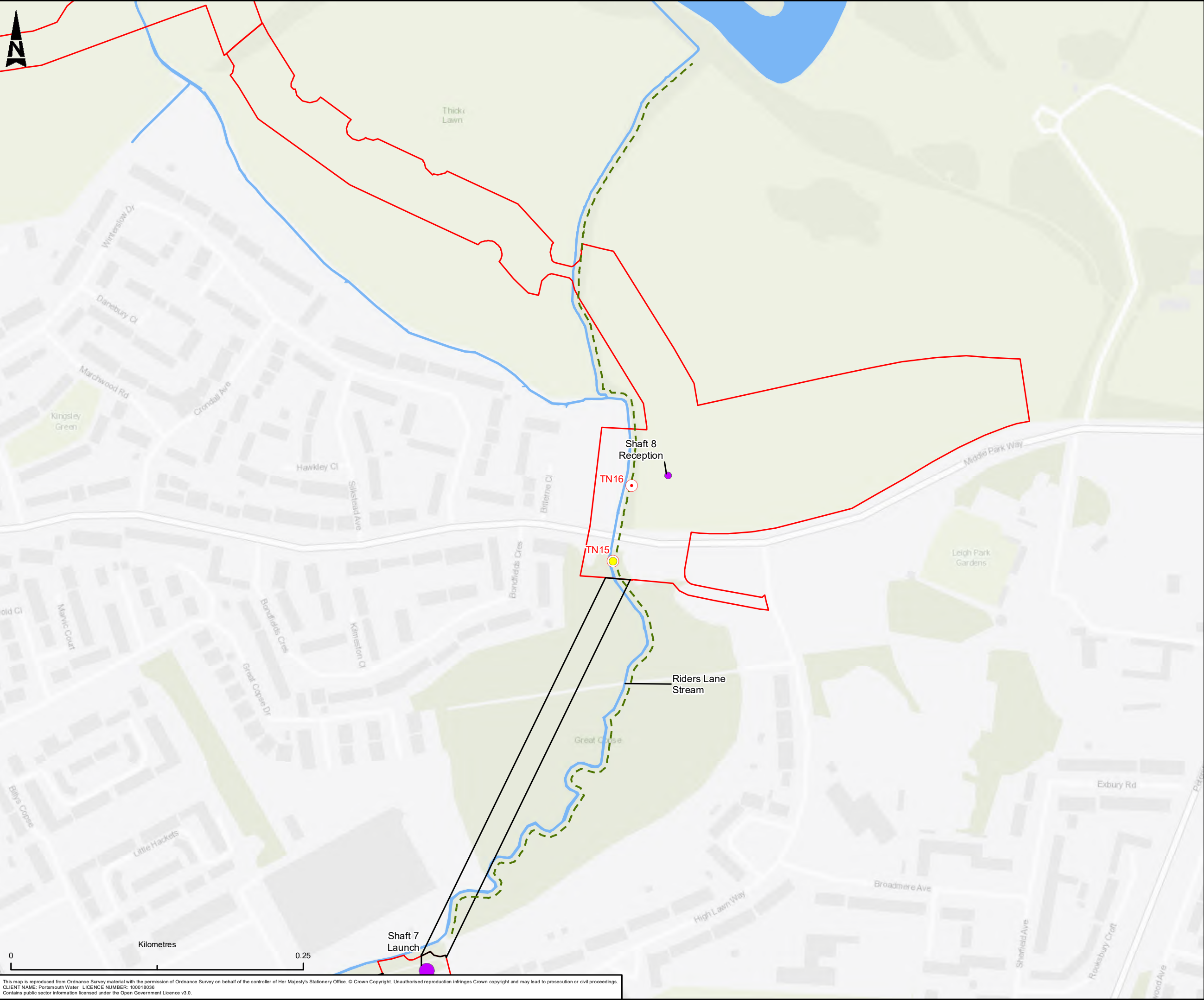
Project Title

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Drawing Title

**FIGURE 9.19 KINGFISHER SURVEY AREA
EMERGENCY DISCHARGE CHAMBER**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only

Activity Surveys

- Suitable nesting feature
- Technical note

Pipeline Work Locations

- Pipeline Work Locations (Launch and Reception)

Initial Habitat Suitability Assessment

- Route

Site features

- Waterbodies

C02	EN	EV	AR	JF	PUBLISHED	21/05/2024
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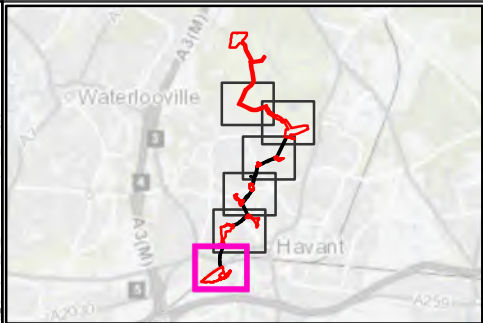


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5169117	Page 1	1:3,000	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.19
KINGFISHER INITIAL HABITAT
ASSESSMENT SHAFT 8**

Portsmouth Water Drawing Number	Rev
	C02



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

BNG Habitat Type

- g3c - Other Neutral Grassland
- h3a6 - Other Blackthorn Scrub
- h3d - Bramble Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- u1b - Introduced Shrub
- Urban Trees

BNG Linear Habitats

- w1g6 - Line of Trees

C03	NW	FD	AR	JF	PUBLISHED	25/04/2024
C02	KS	NW	AR	JF	PUBLISHED	17/04/2024
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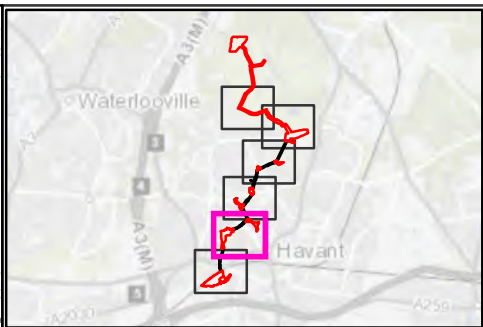
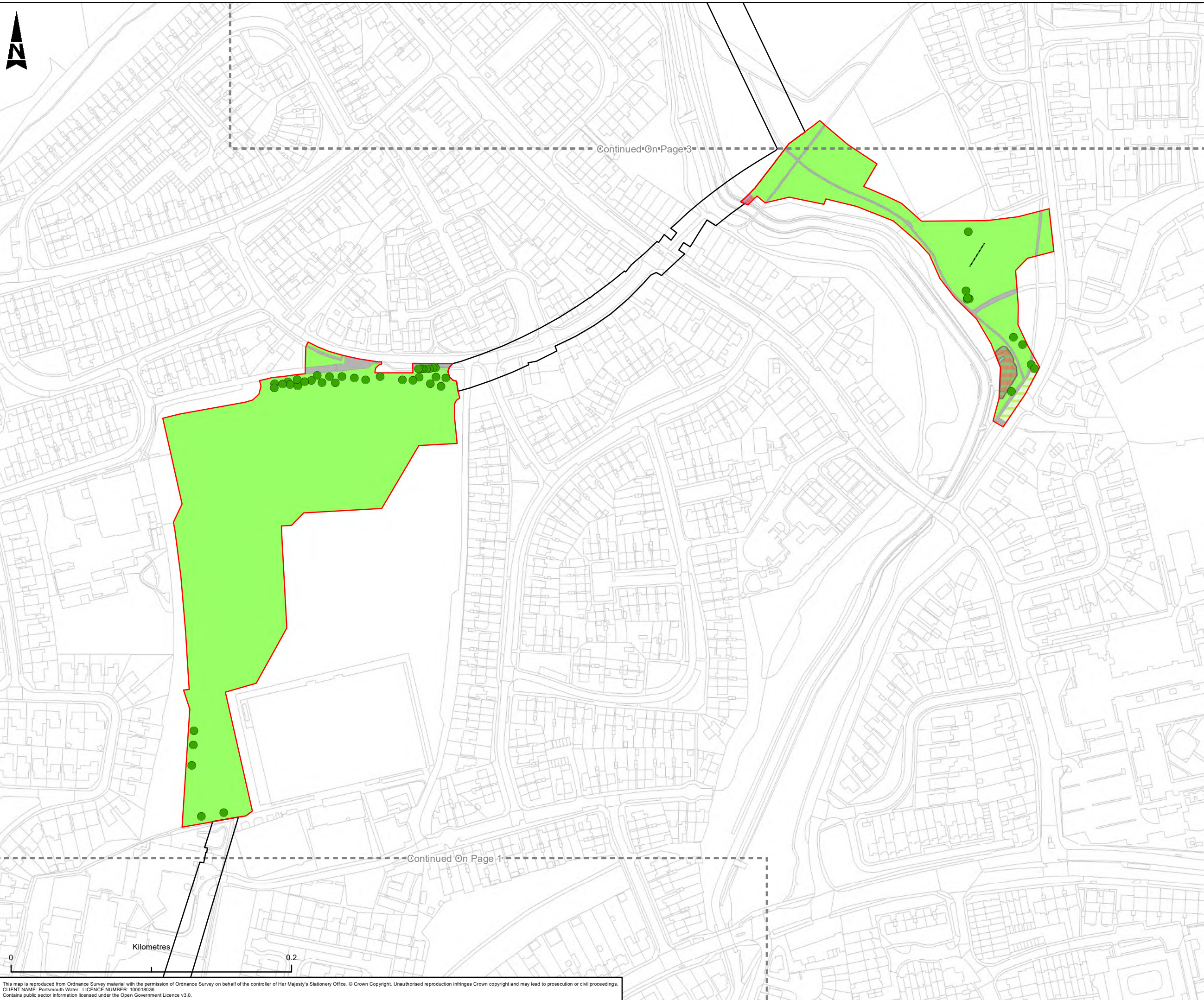
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FIGURE 9.21
ON-SITE BNG ASSESSMENT
HABITAT BASELINE PLAN

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3d - Bramble Scrub
- r2 - Watercourse Footprint
- w1f - Lowland Mixed Deciduous Woodland
- u1 - Developed Land Sealed Surface
- Urban Trees

BNG Linear Habitats

- w1g6 - Line of Trees

C03	NW	FD	AR	JF	PUBLISHED	25/04/2024
C02	KS	NW	AR	JF	PUBLISHED	17/04/2024
C01	MMN	NW	AR	JF	PUBLISHED	19/01/2024
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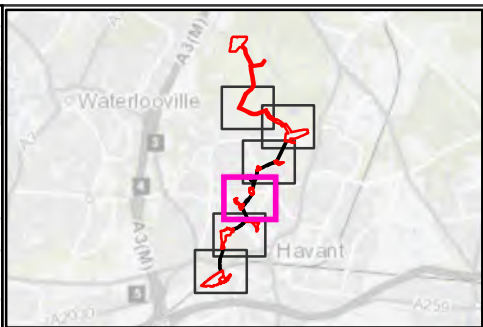
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**FIGURE 9.21
ON-SITE BNG ASSESSMENT
HABITAT BASELINE PLAN**

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3d - Bramble Scrub
- r2 - Watercourse Footprint
- w1f - Lowland Mixed Deciduous Woodland
- w1g - Other Woodland Broadleaved
- u1 - Developed Land Sealed Surface
- Urban Trees

BNG Linear Habitats

- w1g6 - Line of Trees

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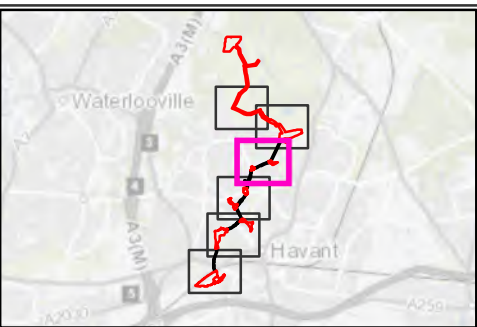
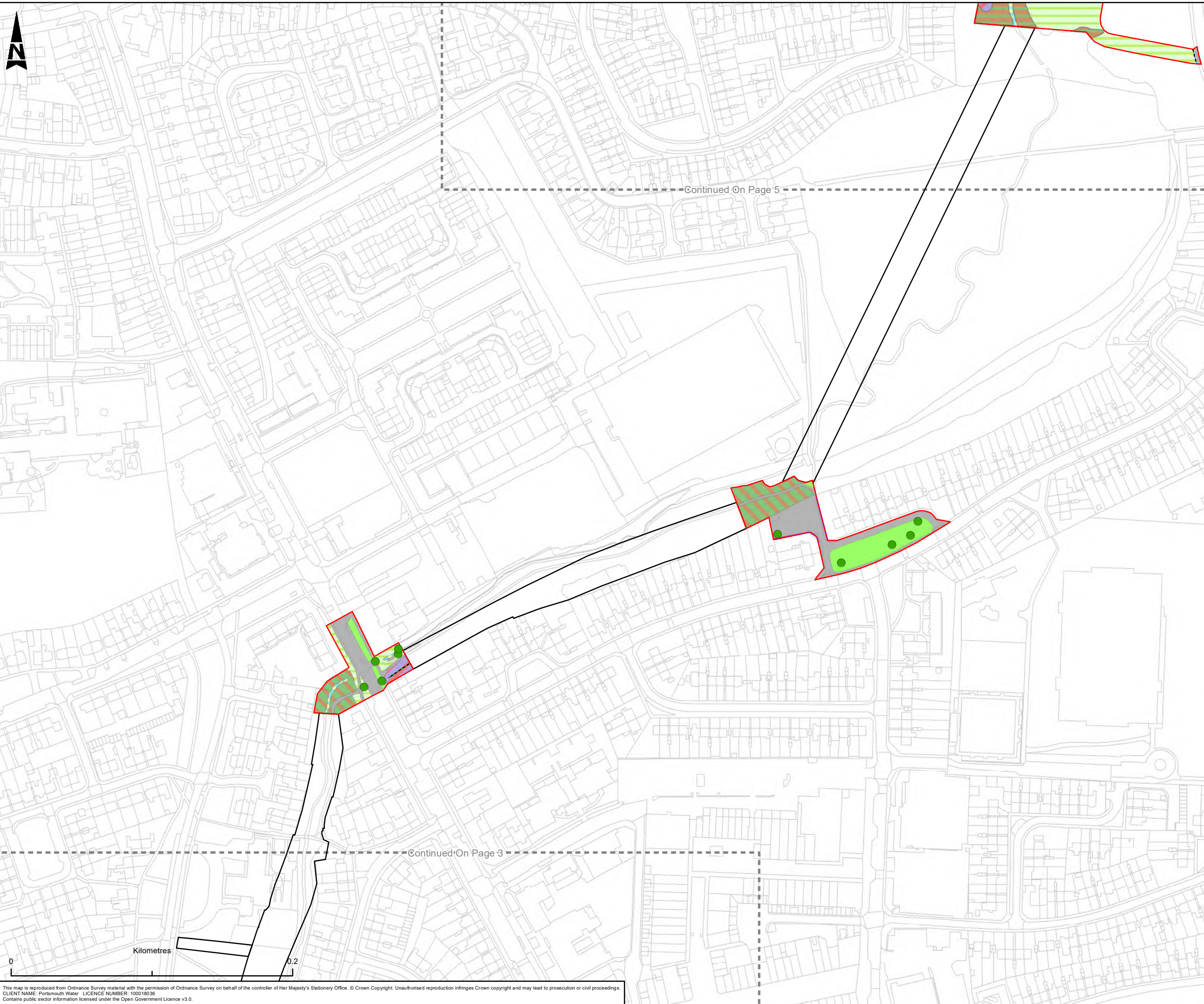
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FIGURE 9.21
ON-SITE BNG ASSESSMENT
HABITAT BASELINE PLAN

Portsmouth Water Drawing Number	Rev
	C03



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Adjacent Map Sheets
- BNG Habitat Type**
- g3c - Other Neutral Grassland
 - g4 - Modified Grassland
 - h3d - Bramble Scrub
 - r2 - Watercourse Footprint
 - w1d - Wet Woodland
 - w1f - Lowland Mixed Deciduous Woodland
 - u1 - Developed Land Sealed Surface
 - Urban Trees
- BNG Linear Habitats**
- h2a - Native Hedgerow
 - h2b - Non-Native and Ornamental
 - w1g6 - Line of Trees

C03	NW	FD	AR	JF	PUBLISHED	25/04/2024
C02	KS	NW	AR	JF	PUBLISHED	17/04/2024
C01	MMN	NW	AR	JF	PUBLISHED	19/01/2024
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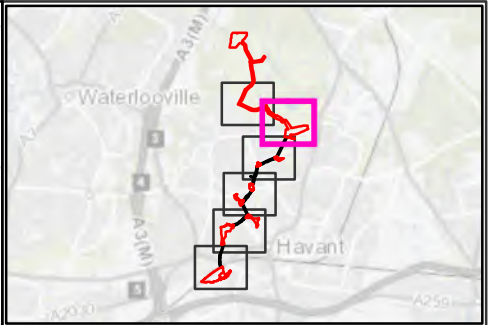
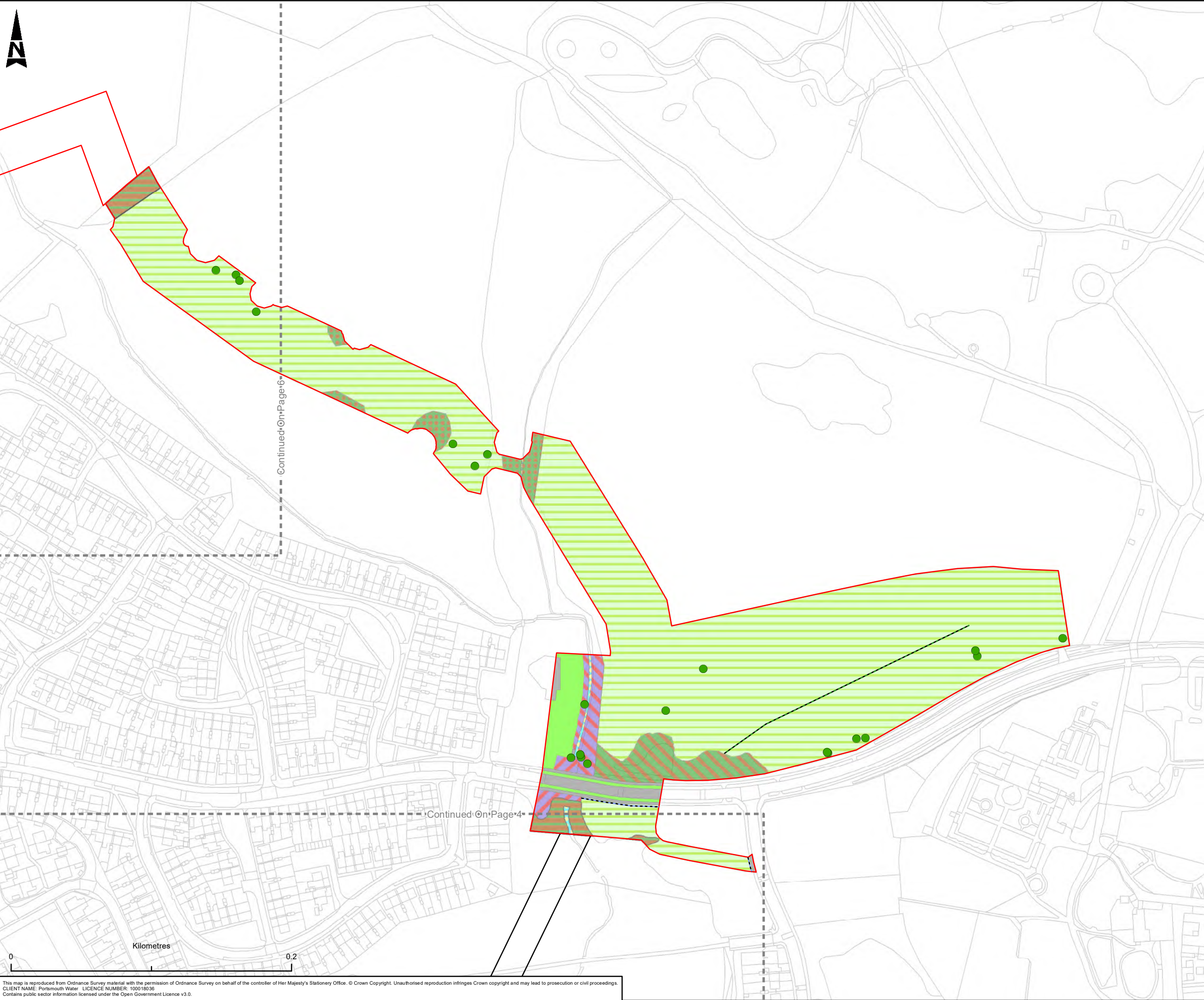


Project Ref. No	Sheet	Scale	Sheet Size
5169117	4 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.21
ON-SITE BNG ASSESSMENT
HABITAT BASELINE PLAN**

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Adjacent Map Sheets

BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3d - Bramble Scrub
- h3h - Mixed Scrub
- r2 - Watercourse Footprint
- w1d - Wet Woodland
- w1f - Lowland Mixed Deciduous Woodland
- w1g - Other Woodland Broadleaved
- u1 - Developed Land Sealed Surface
- Urban Trees

BNG Linear Habitats

- h2a - Native Hedgerow
- w1g6 - Line of Trees

C03	NW	FD	AR	JF	PUBLISHED	25/04/2024
C02	KS	NW	AR	JF	PUBLISHED	17/04/2024
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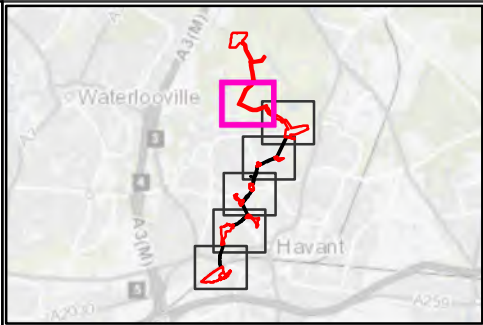
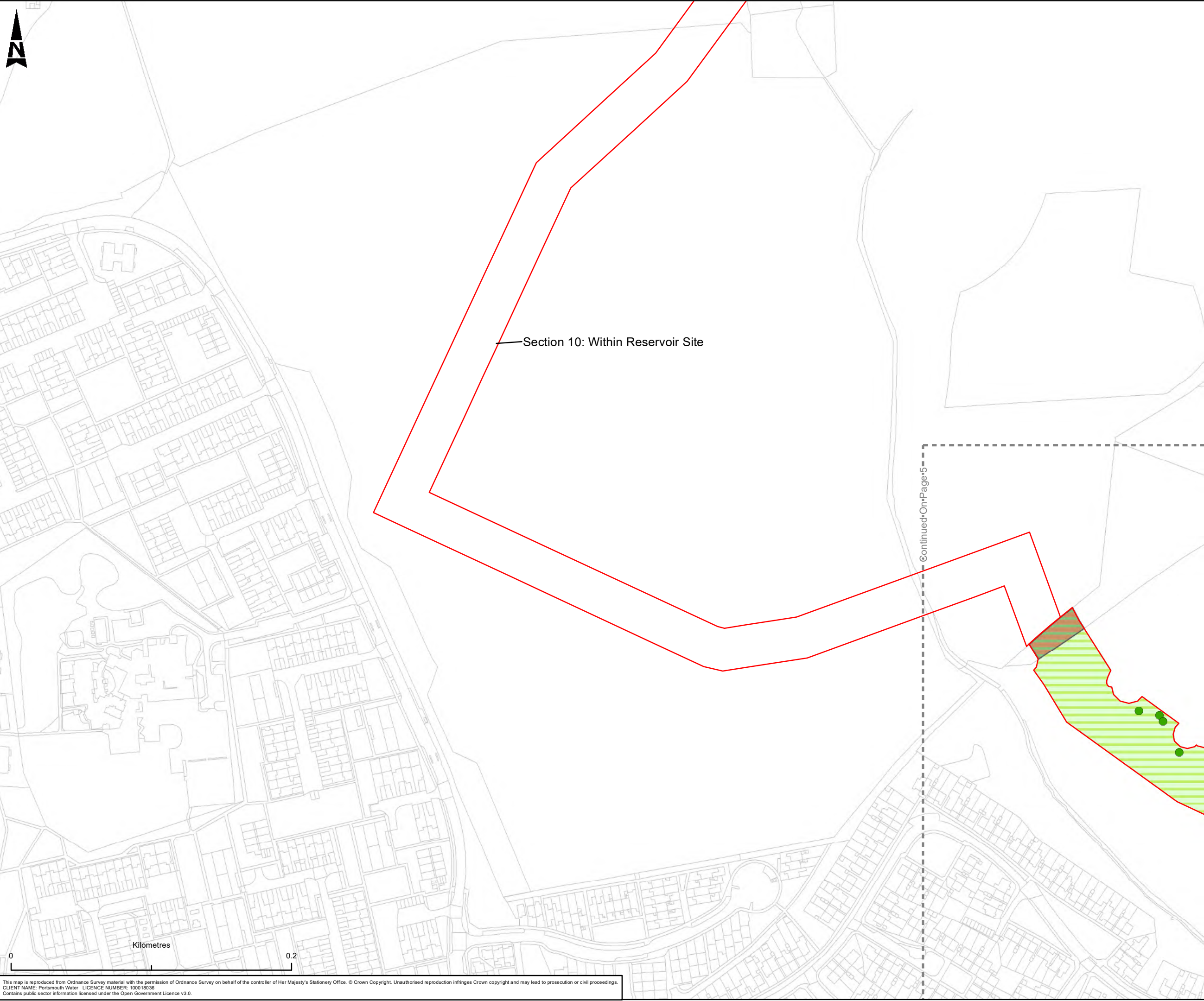
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5169117	5 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

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**FIGURE 9.21
ON-SITE BNG ASSESSMENT
HABITAT BASELINE PLAN**

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Adjacent Map Sheets

BNG Habitat Type

- g3c - Other Neutral Grassland
- w1f - Lowland Mixed Deciduous Woodland
- Urban Trees

C03	NW	FD	AR	JF	PUBLISHED	25/04/2024
C02	KS	NW	AR	JF	PUBLISHED	17/04/2024
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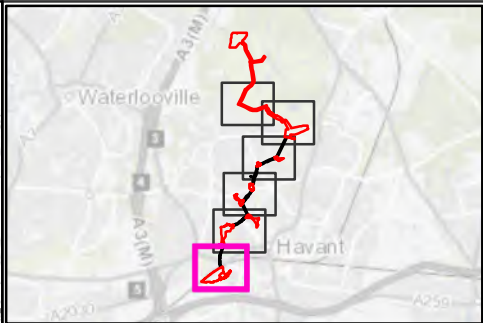
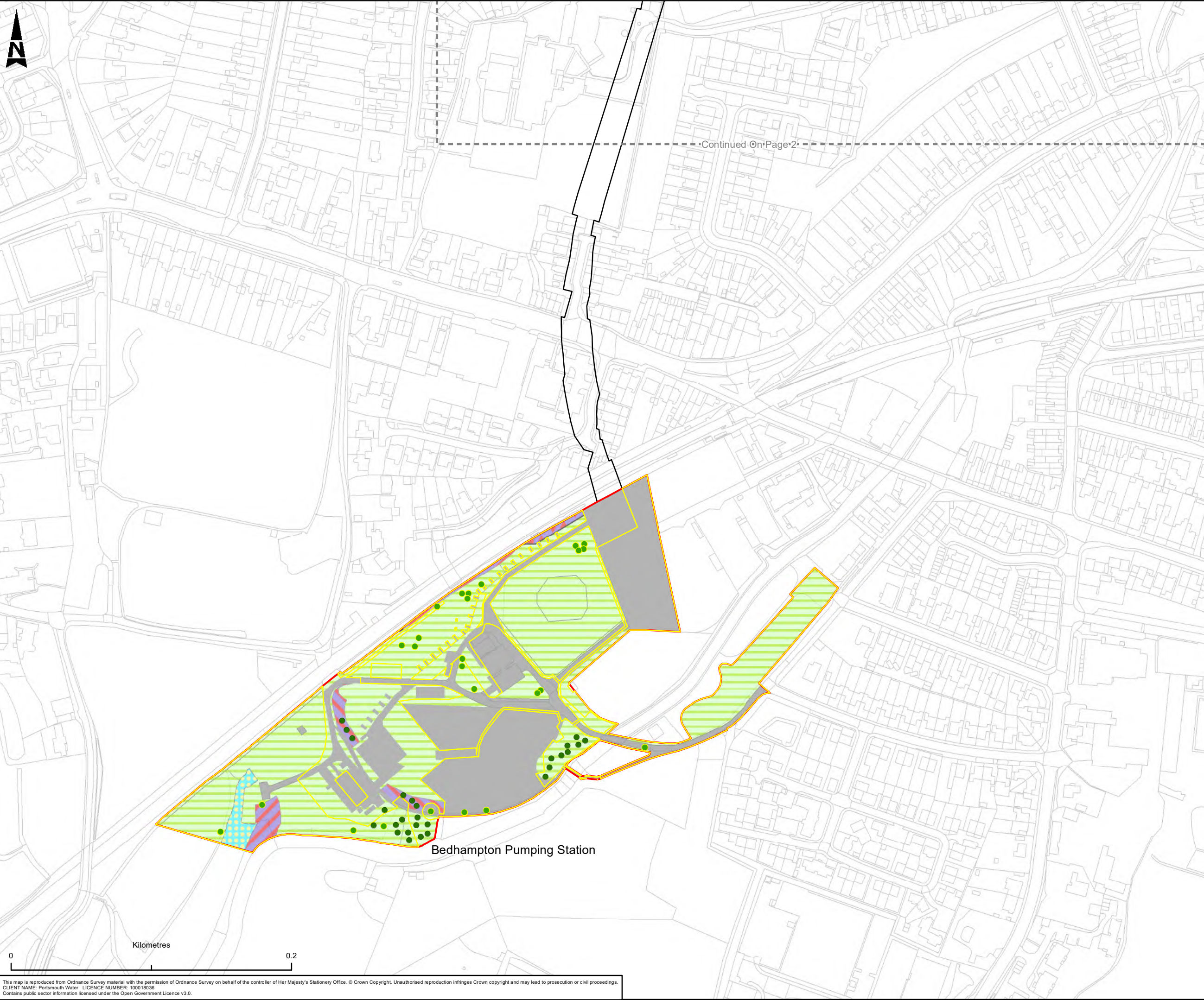
Project Title

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Drawing Title

**FIGURE 9.21
ON-SITE BNG ASSESSMENT
HABITAT BASELINE PLAN**

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Habitats to be Retained
- Adjacent Map Sheets

Retained BNG Habitat Type

- g3c - Other Neutral Grassland
- h3a6 - Other Blackthorn Scrub
- h3d - Bramble Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- Urban Trees

Post Development BNG Habitat Type

- g3c - Other Neutral Grassland
- h3h - Mixed Scrub
- u1 - Developed Land Sealed Surface
- Urban Trees

C01	MMN	NW	AR	JF	PUBLISHED	25/04/2024
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PUBLISHED	A1

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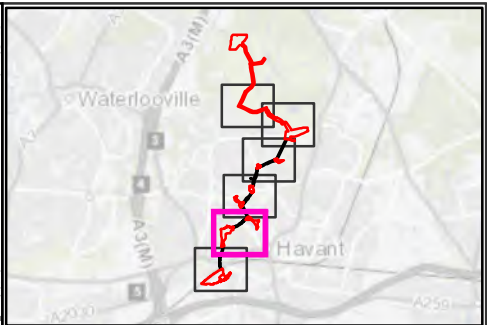
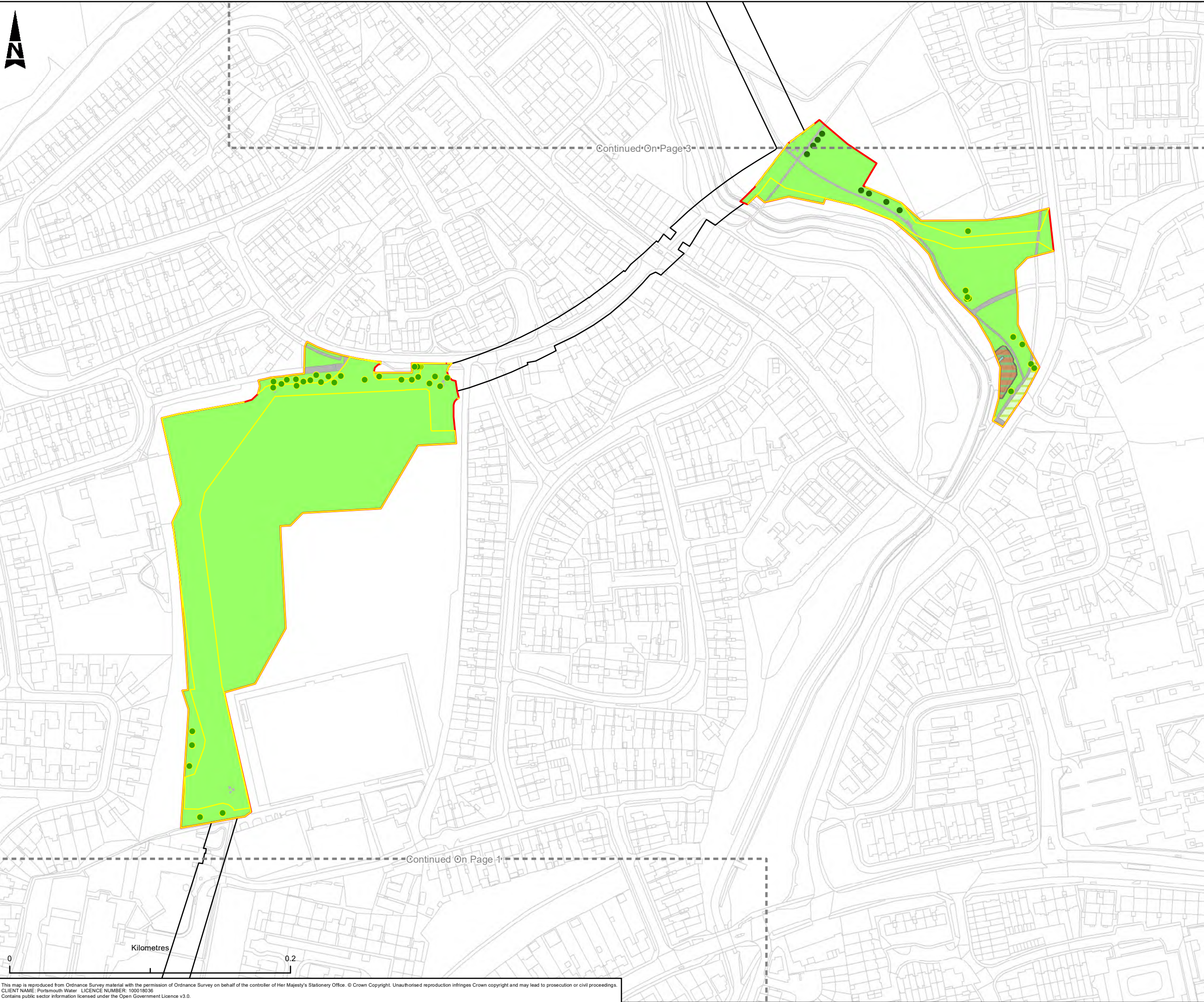


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5169117	1 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.22
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN**

Portsmouth Water Drawing Number	Rev
	C01



- Pipeline Scheme Red Line Boundary**

 -  Surface and Underground Works
 -  Underground Works Only
 -  Habitats to be Retained
 -  Adjacent Map Sheets

Retained BNG Habitat Type

 -  g3c - Other Neutral Grassland
 -  g4 - Modified Grassland
 -  h3d - Bramble Scrub
 -  r2 - Watercourse Footprint
 -  u1 - Developed Land Sealed Surface
 -  w1f - Lowland Mixed Deciduous Woodland
 -  Urban Trees

Post Development BNG Habitat Type

 -  g4 - Modified Grassland
 -  u1 - Developed Land Sealed Surface
 -  Urban Trees

CD1	MMN	NW	AR	JF	PUBLISHED	25/04/2024
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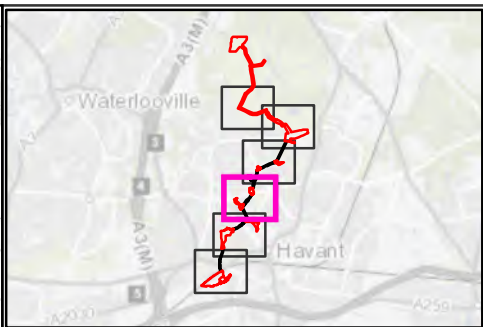
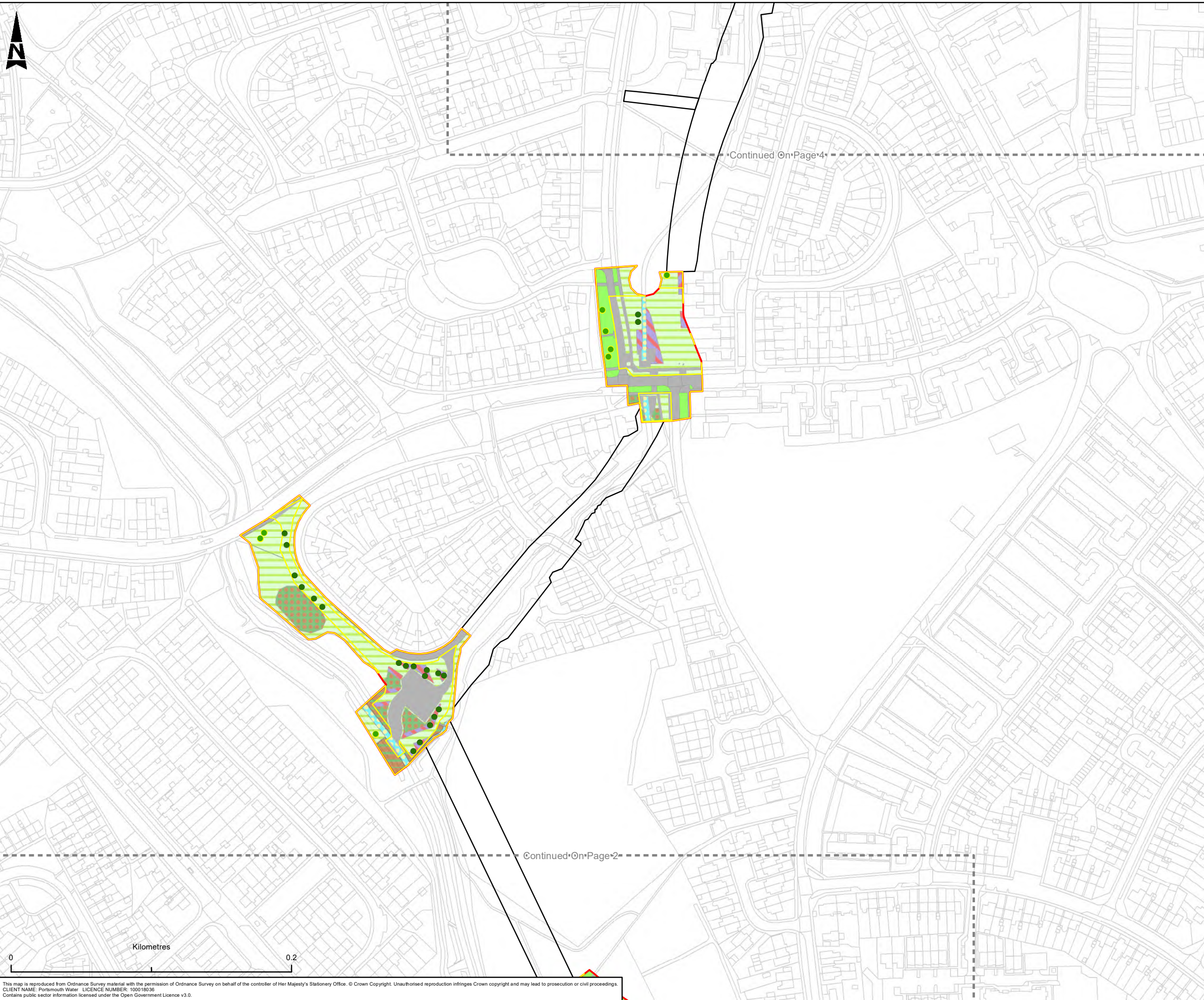
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Project Title	HAVANT THICKET RESERVOIR
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Drawing Title

FIGURE 9.22
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev C01
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Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Habitats to be Retained
- Adjacent Map Sheets

Retained BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3d - Bramble Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- w1f - Lowland Mixed Deciduous Woodland
- w1g - Other Woodland Broadleaved
- Urban Trees

Post Development BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3h - Mixed Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- w1g - Broadleaved, Other Woodland
- Urban Trees

C01	MMN	NW	AR	JF	PUBLISHED	25/04/2024
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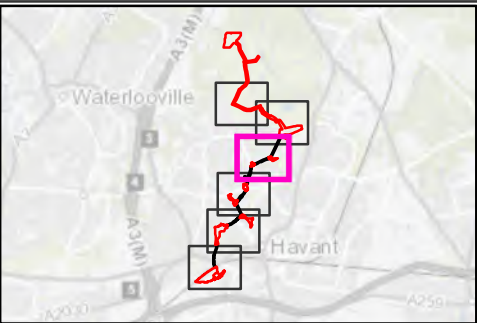


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5169117	3 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 9.22 BNG ASSESSMENT POST DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev
	C01



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Habitats to be Retained
- Adjacent Map Sheets

Retained BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3d - Bramble Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- w1d - Wet Woodland
- w1f - Lowland Mixed Deciduous Woodland
- Urban Trees

Post Development BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3h - Mixed Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- w1d - Wet Woodland
- w1g - Broadleaved, Other Woodland
- Urban Trees

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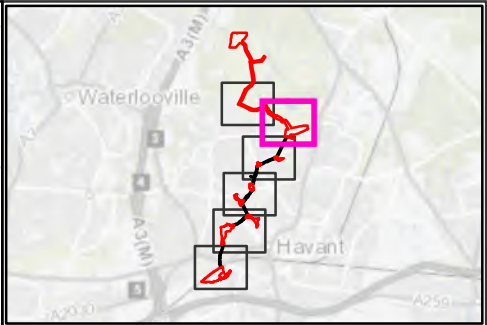
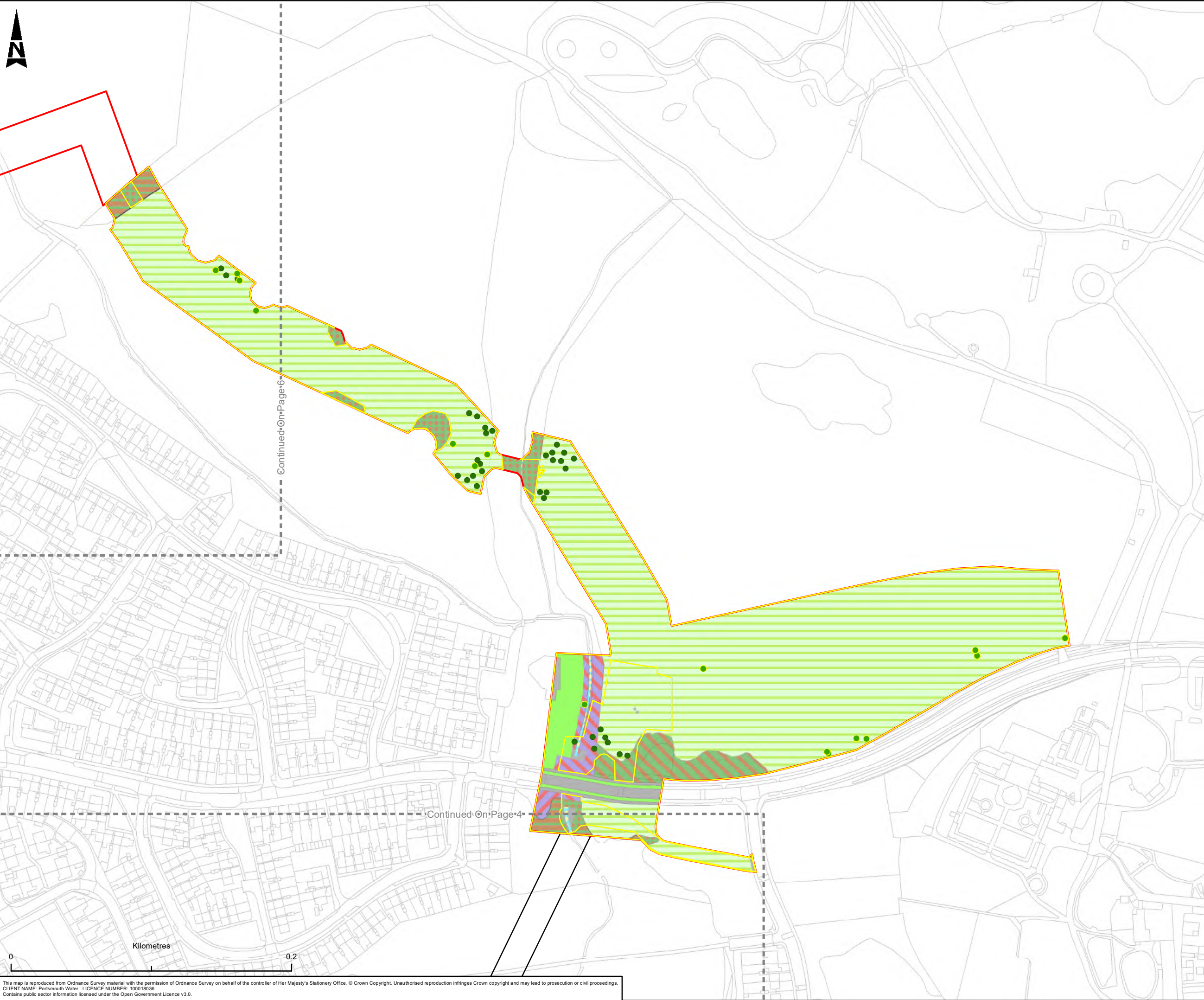
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FIGURE 9.22
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev
	C01



Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Habitats to be Retained
- Adjacent Map Sheets

Retained BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3d - Bramble Scrub
- h3h - Mixed Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- w1d - Wet Woodland
- w1f - Lowland Mixed Deciduous Woodland
- w1g - Other Woodland Broadleaved
- Urban Trees

Post Development BNG Habitat Type

- g3c - Other Neutral Grassland
- g4 - Modified Grassland
- h3h - Mixed Scrub
- r2 - Watercourse Footprint
- u1 - Developed Land Sealed Surface
- w1d - Wet Woodland
- w1g - Broadleaved, Other Woodland
- Urban Trees

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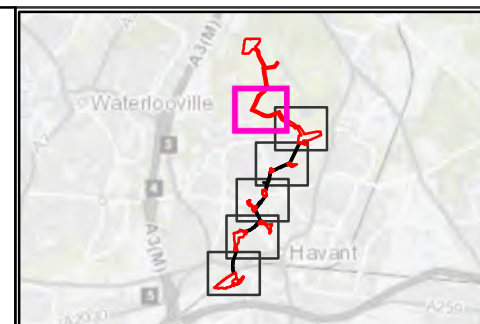
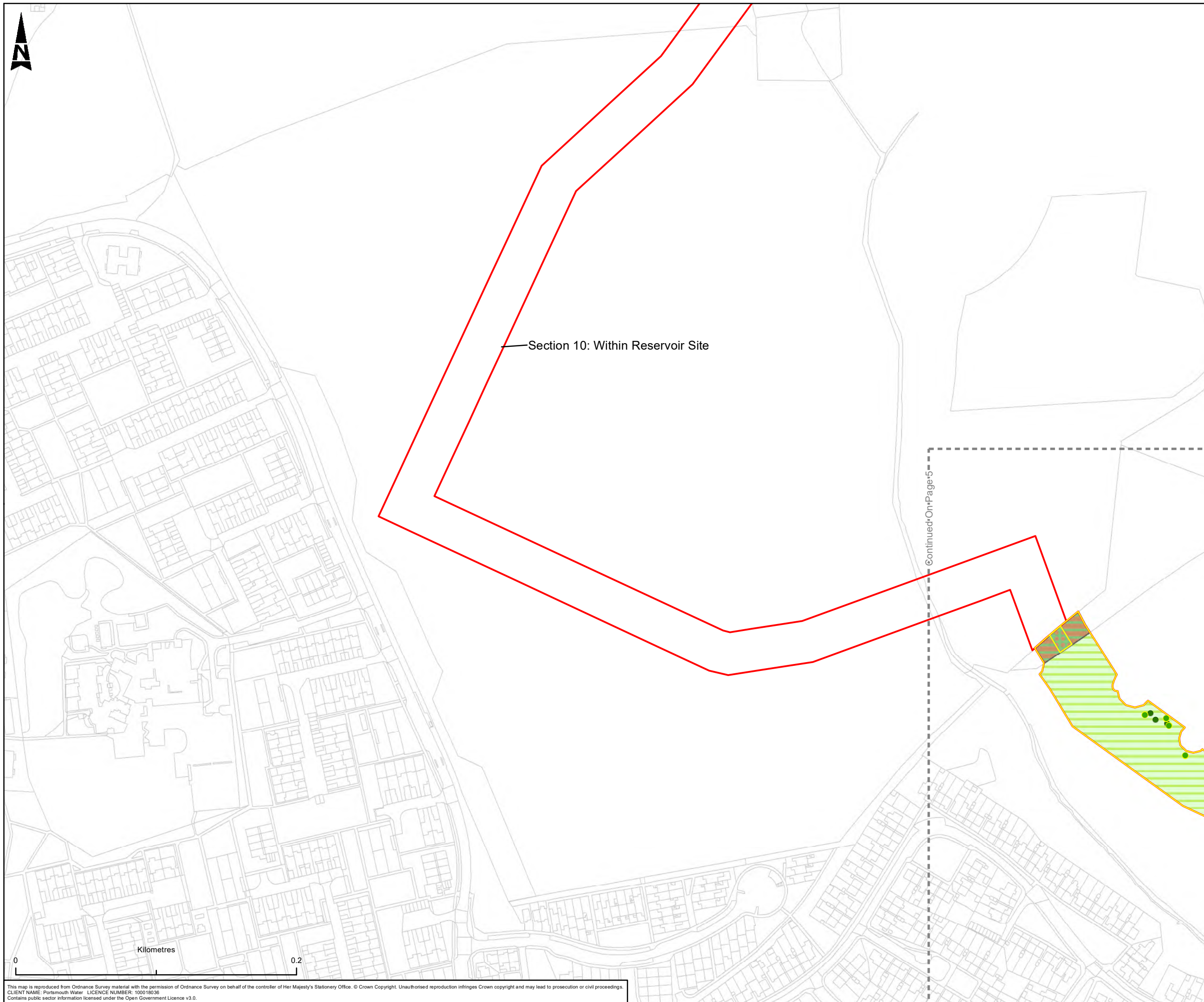
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FIGURE 9.22
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev
	C01



Pipeline Scheme Red Line Boundary

- ☐ Surface and Underground Works

-  Habitats to be Retained

- Adjacent Map Sheets

Retained BNG Habitat Type

-  g3c - Other Neutral Grassland

- w1f - Lowland Mixed Deciduous Woodland

- Urban Trees

Post Development BNG Habitat Type

-  w1g - Broadleaved Other Woodland

- Urban Trees

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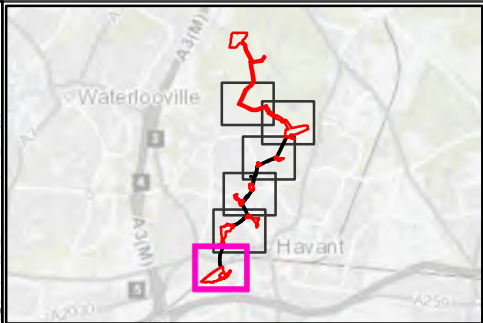
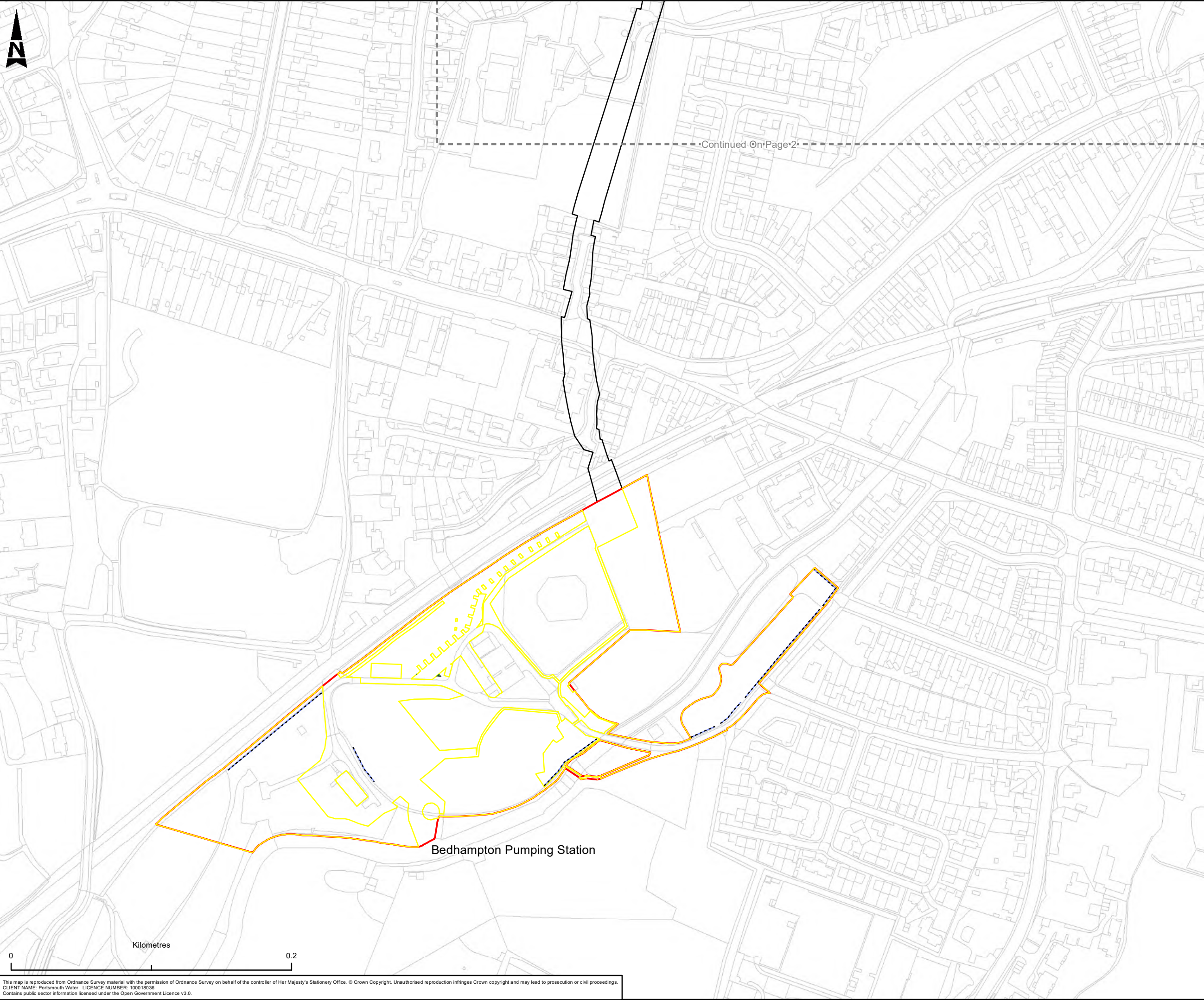
MAVANT THICKET RECOVERY

Drawing Title

FIGURE 9.22
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev C01
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Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Habitats to be retained
- Adjacent Map Sheets

Retained Linear BNG Habitat Type

- w1g6 - Line of Trees

Post Development BNG Habitat Type

- h2a - Native Hedgerow

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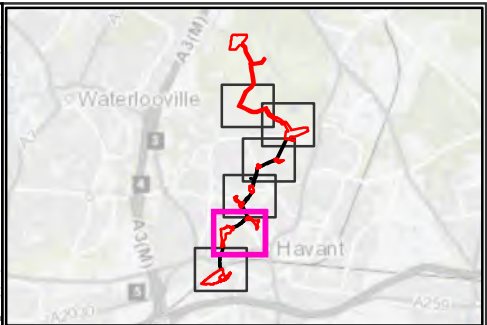
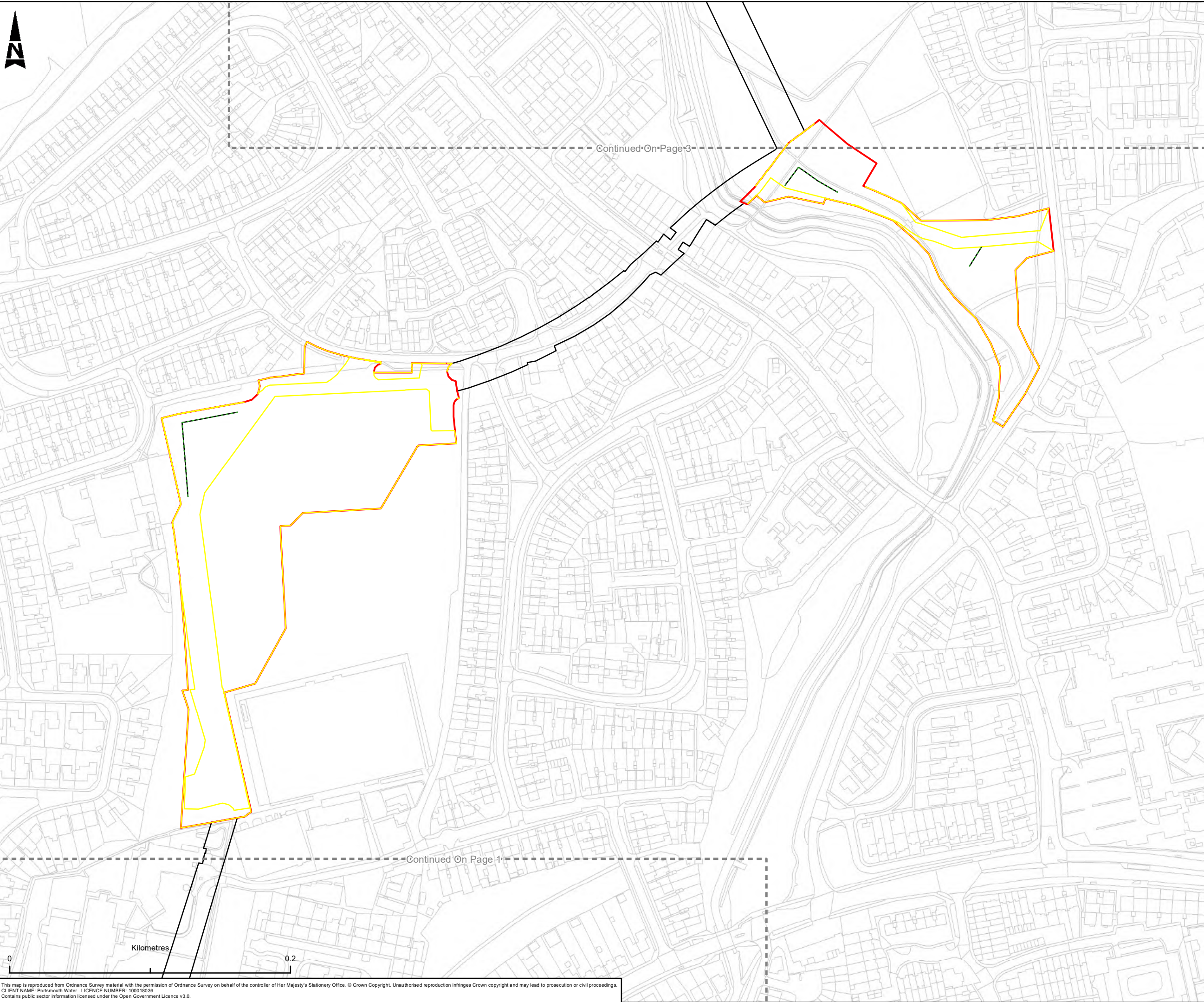


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Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.23
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN**

Portsmouth Water Drawing Number	Rev
	C01



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Habitats to be retained
 - Adjacent Map Sheets
- Retained Linear BNG Habitat Type**
- w1g6 - Line of Trees
- Post Development BNG Habitat Type**
- w1g6 - Line of Trees

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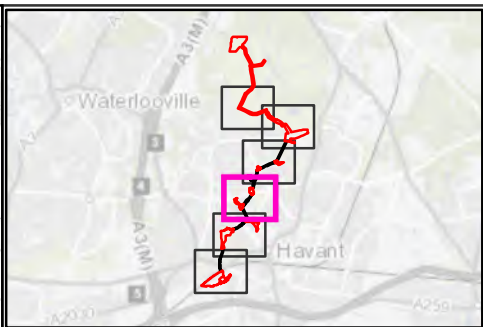
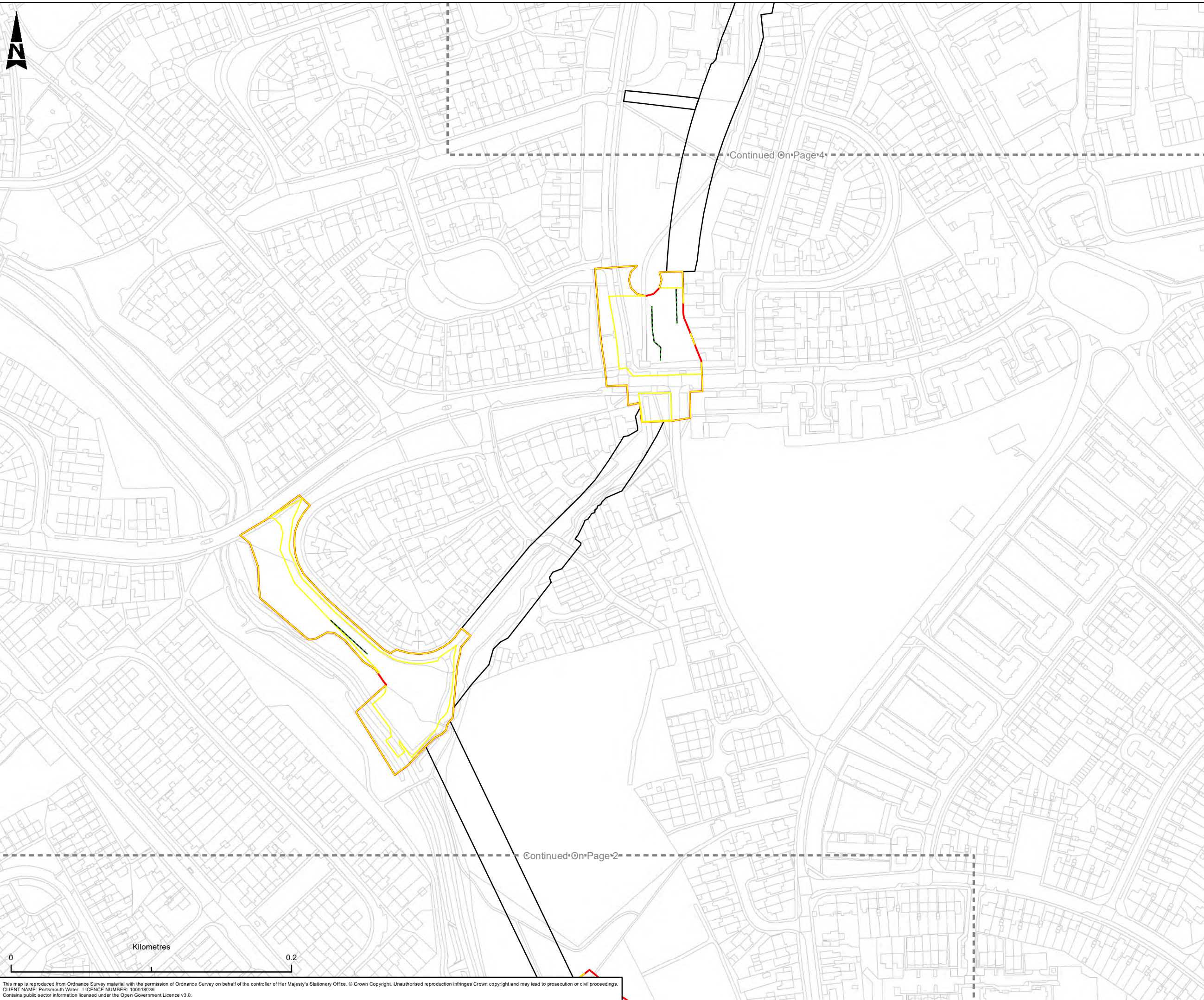


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**FIGURE 9.23
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN**

Portsmouth Water Drawing Number	Rev
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Pipeline Scheme Red Line Boundary

- Surface and Underground Works
- Underground Works Only
- Habitats to be retained
- Adjacent Map Sheets

Post Development BNG Habitat Type

- w1g6 - Line of Trees

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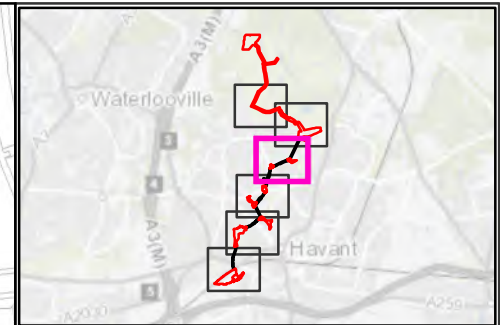
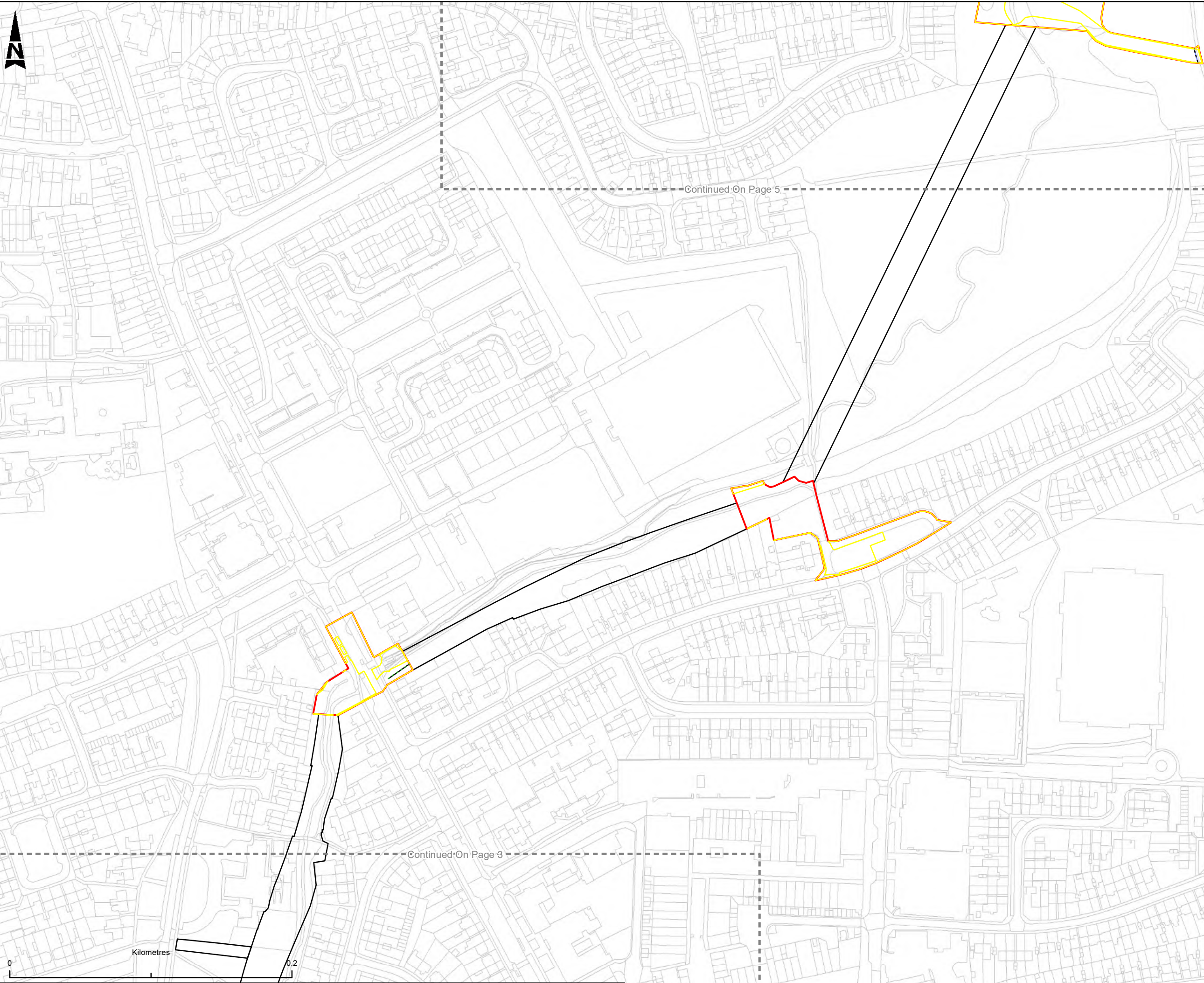


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**FIGURE 9.23
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN**

Portsmouth Water Drawing Number	Rev
	C01



Pipeline Scheme Red Line Boundary

-  Surface and Underground Works
-  Underground Works Only
-  Habitats to be retained
-  Adjacent Map Sheets

Retained Linear BNG Habitat Type

- h2a - Native Hedgerow
- h2b - Non-Native and Ornamental
-  w1g6 - Line of Trees

Post Development BNG Habitat Type

- h2a - Native Hedgerow

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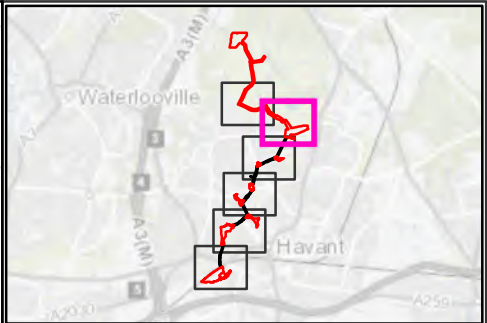
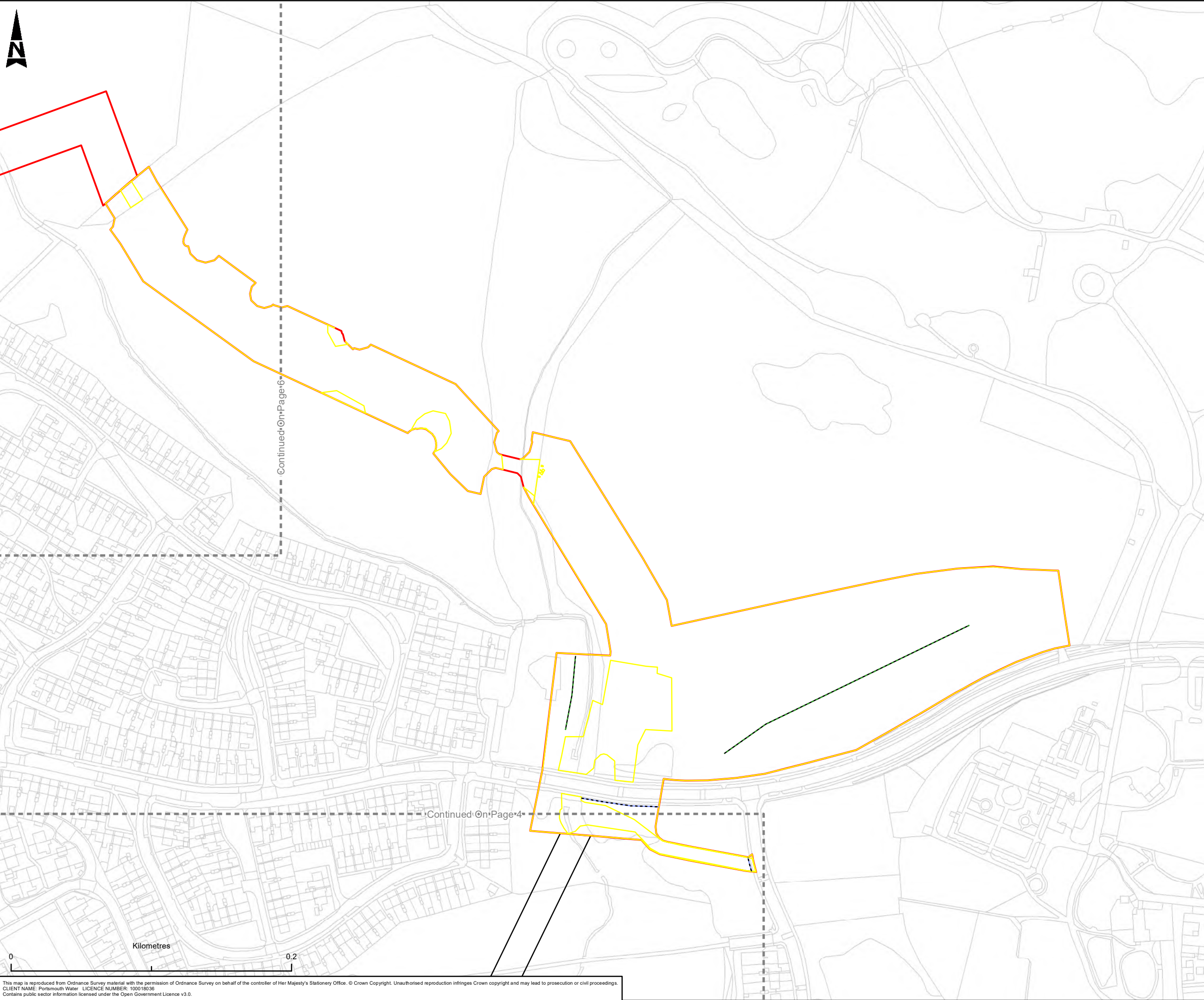
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FIGURE 9.23
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev C01
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- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works
 - Underground Works Only
 - Habitats to be retained
 - Adjacent Map Sheets
- Retained Linear BNG Habitat Type**
- h2a - Native Hedgerow
 - w1g6 - Line of Trees
- Post Development BNG Habitat Type**
- h2a - Native Hedgerow
 - w1g6 - Line of Trees

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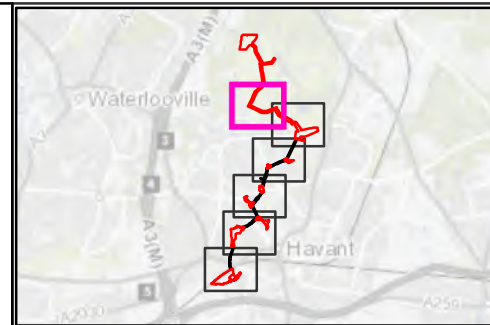
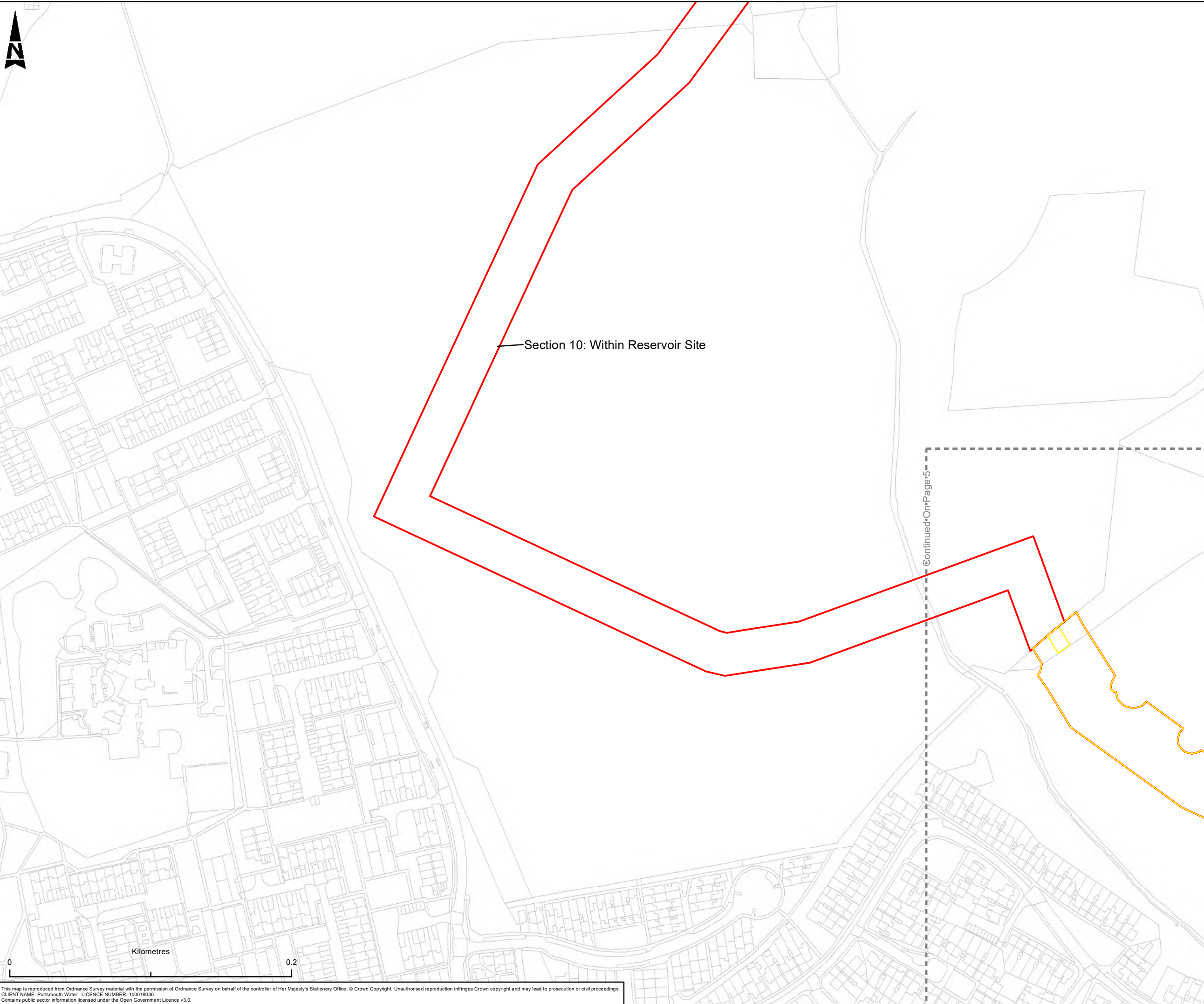
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**FIGURE 9.23
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN**

Portsmouth Water Drawing Number	Rev
	C01



Pipeline Scheme Red Line Boundary

 Surface and Underground Works

 Habitats to be retained

 Adjacent Map Sheets

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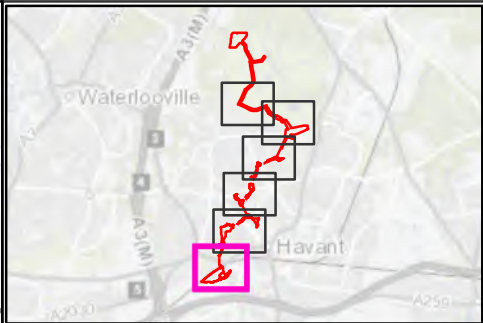
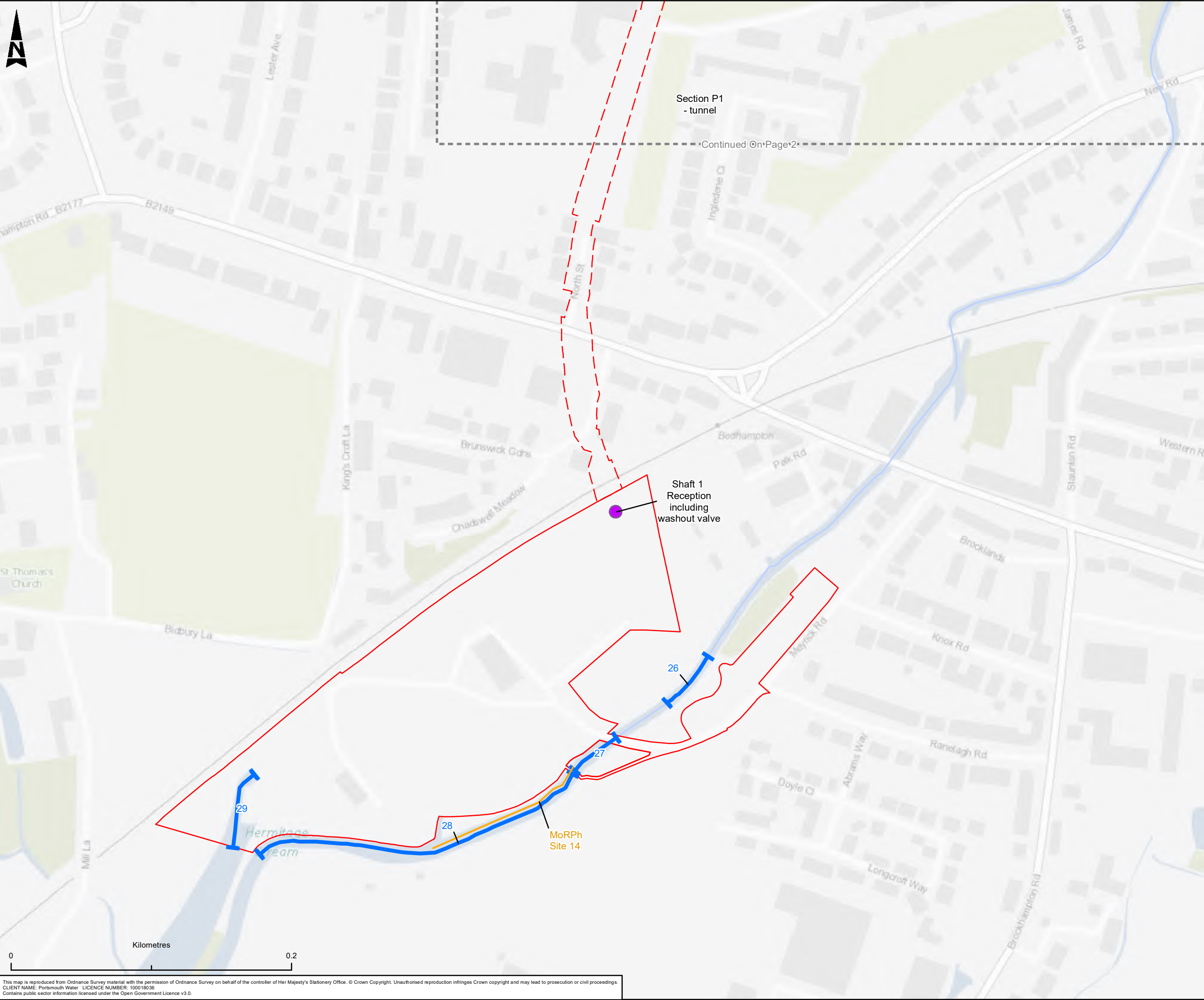
Project Ref. No	Sheet	Scale	Sheet Size
5169117	6 of 6	1:2,500	A3

Project Title	HAVANT THICKET RESERVOIR
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Drawing Title

FIGURE 9.23
BNG ASSESSMENT POST
DEVELOPMENT HABITAT PLAN

Portsmouth Water Drawing Number	Rev C01
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Pipeline Scheme Red Line Boundary

- Surface and Underground Works - RLB
- Surface and Underground Works Only - RLB
- Adjacent Map Sheets
- WFD River, Canal and Surface Water Transfer Waterbody

MoRPh5 Survey Site and Overall Condition Class

- 14 - Site 14 - Fairly Poor

BNG Reach

- BNG Reach Used in Assessment

C03	NW	NL	AR	JF	PUBLISHED	26/04/2024
C02	NW	NL	AR	JF	PUBLISHED	24/04/2024
C01	NW	NL	AR	JF	PUBLISHED	23/04/2024
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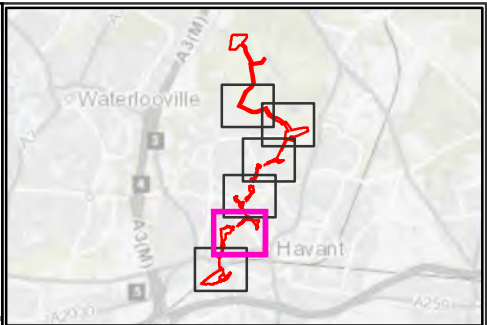
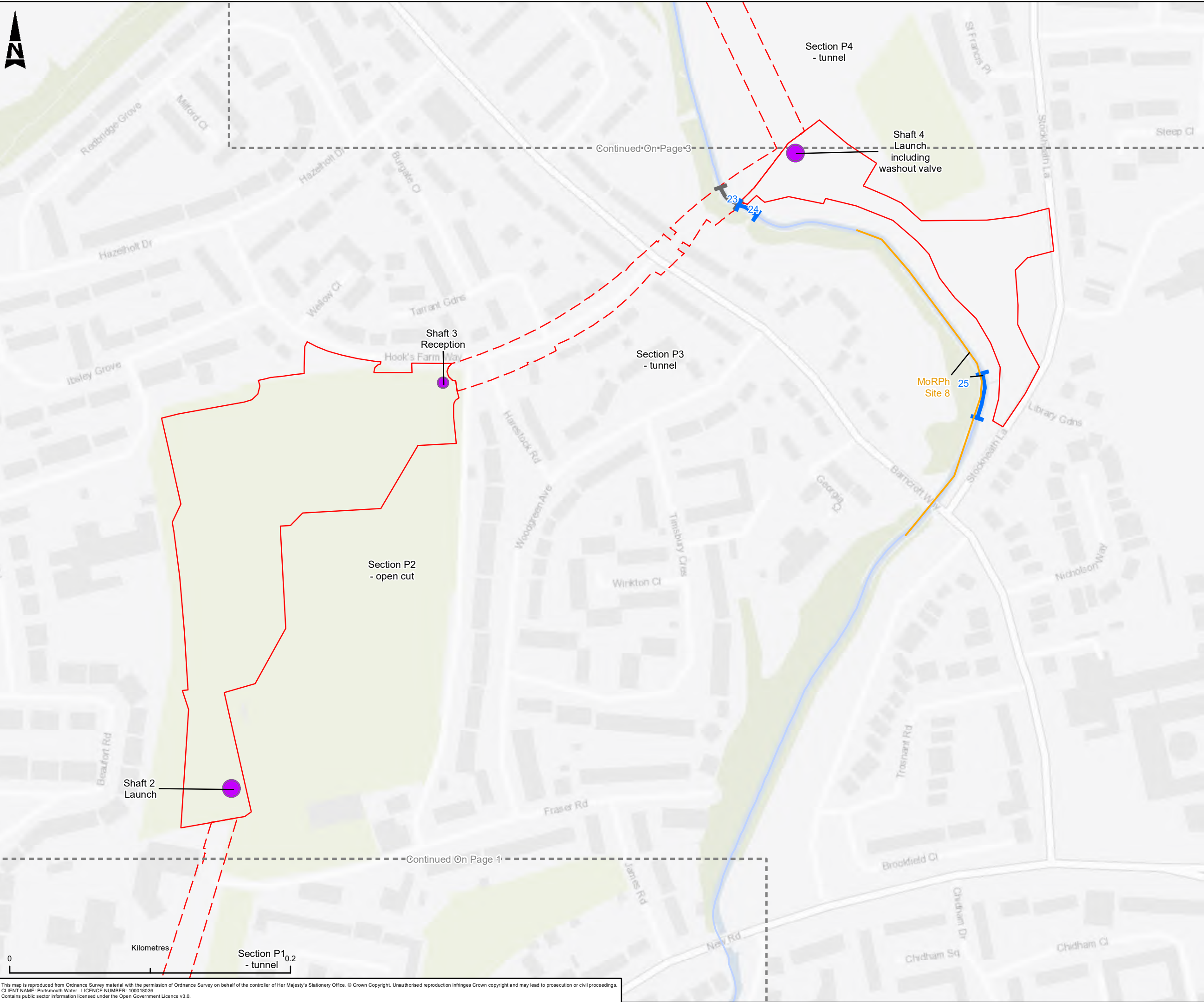
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HAVANT THICKET RESERVOIR

Drawing Title

**FIGURE 9.24
WATERCOURSE BNG REACHES
AND MORPH SURVEY LOCATIONS**

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works - RLB
- Surface and Underground Works Only - RLB
- Adjacent Map Sheets
- WFD River, Canal and Surface Water Transfer Waterbody

MoRPh5 Survey Site and Overall Condition Class

- 8 - Site 8 - Poor

BNG Reach

- BNG Reach Used in Assessment
- Underground Works Only BNG Reach

C03	NW	NL	AR	JF	PUBLISHED	26/04/2024
C02	NW	NL	AR	JF	PUBLISHED	24/04/2024
C01	NW	NL	AR	JF	PUBLISHED	23/04/2024
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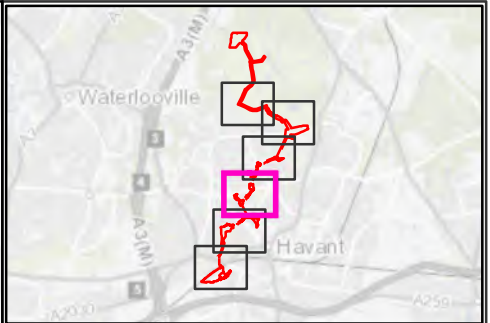
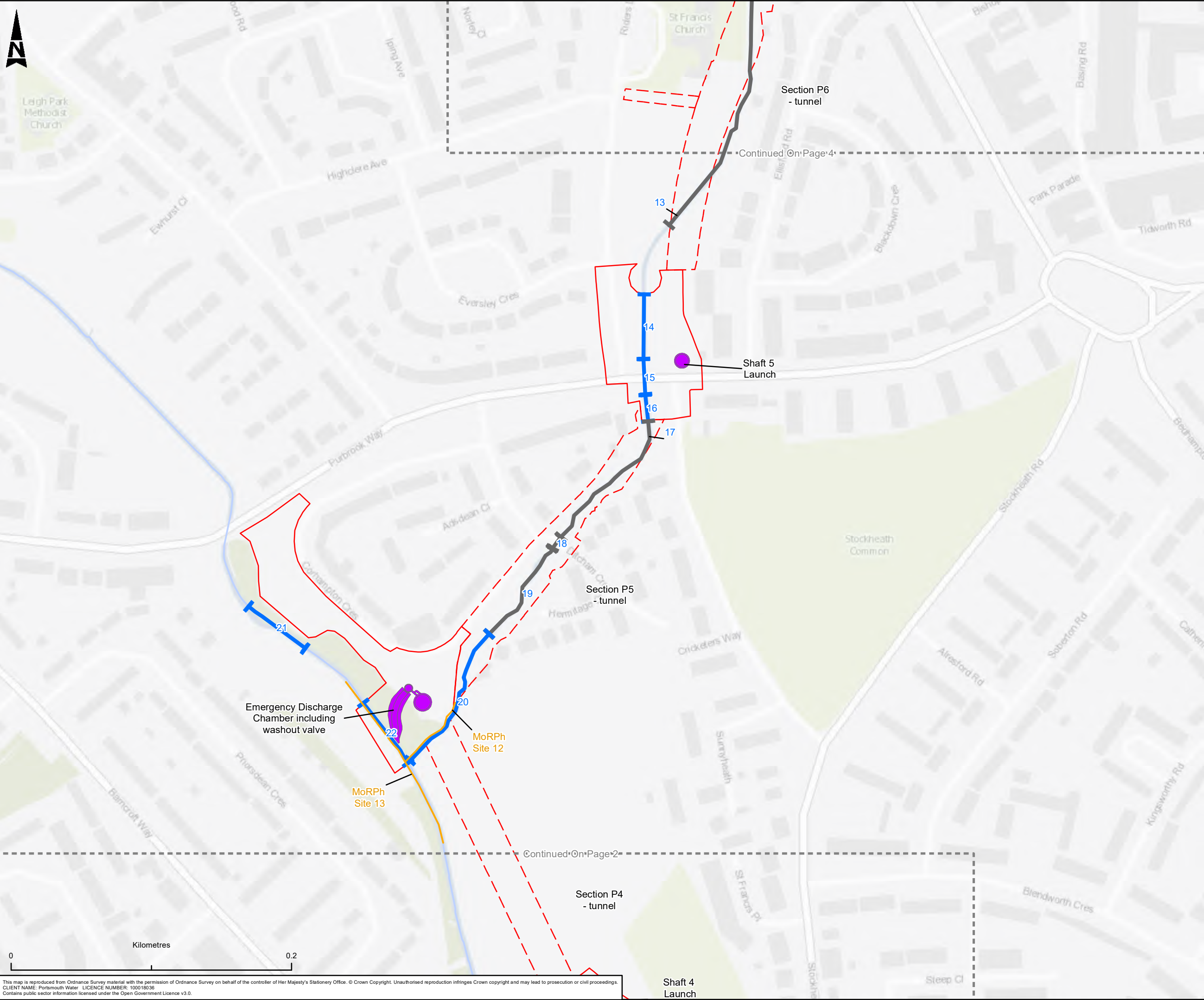
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HAVANT THICKET RESERVOIR

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FIGURE 9.24
WATERCOURSE BNG REACHES
AND MORPH SURVEY LOCATIONS

Portsmouth Water Drawing Number	Rev
	C03



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works - RLB
 - Surface and Underground Works Only - RLB
 - Adjacent Map Sheets
 - WFD River, Canal and Surface Water Transfer Waterbody
- MoRPH5 Survey Site and Overall Condition Class**
- 12 - Site 12 - Fairly Poor
 - 13 - Site 13 - Fairly Poor
- BNG Reach**
- BNG Reach Used in Assessment
 - Underground Works Only BNG Reach

C03	NW	NL	AR	JF	PUBLISHED	26/04/2024
C02	NW	NL	AR	JF	PUBLISHED	24/04/2024
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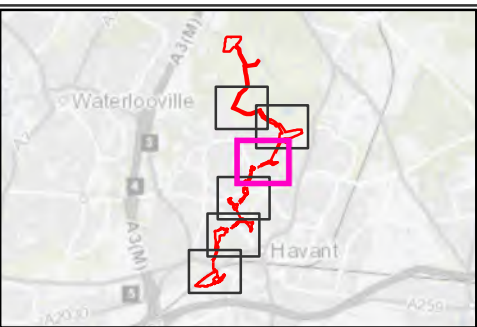
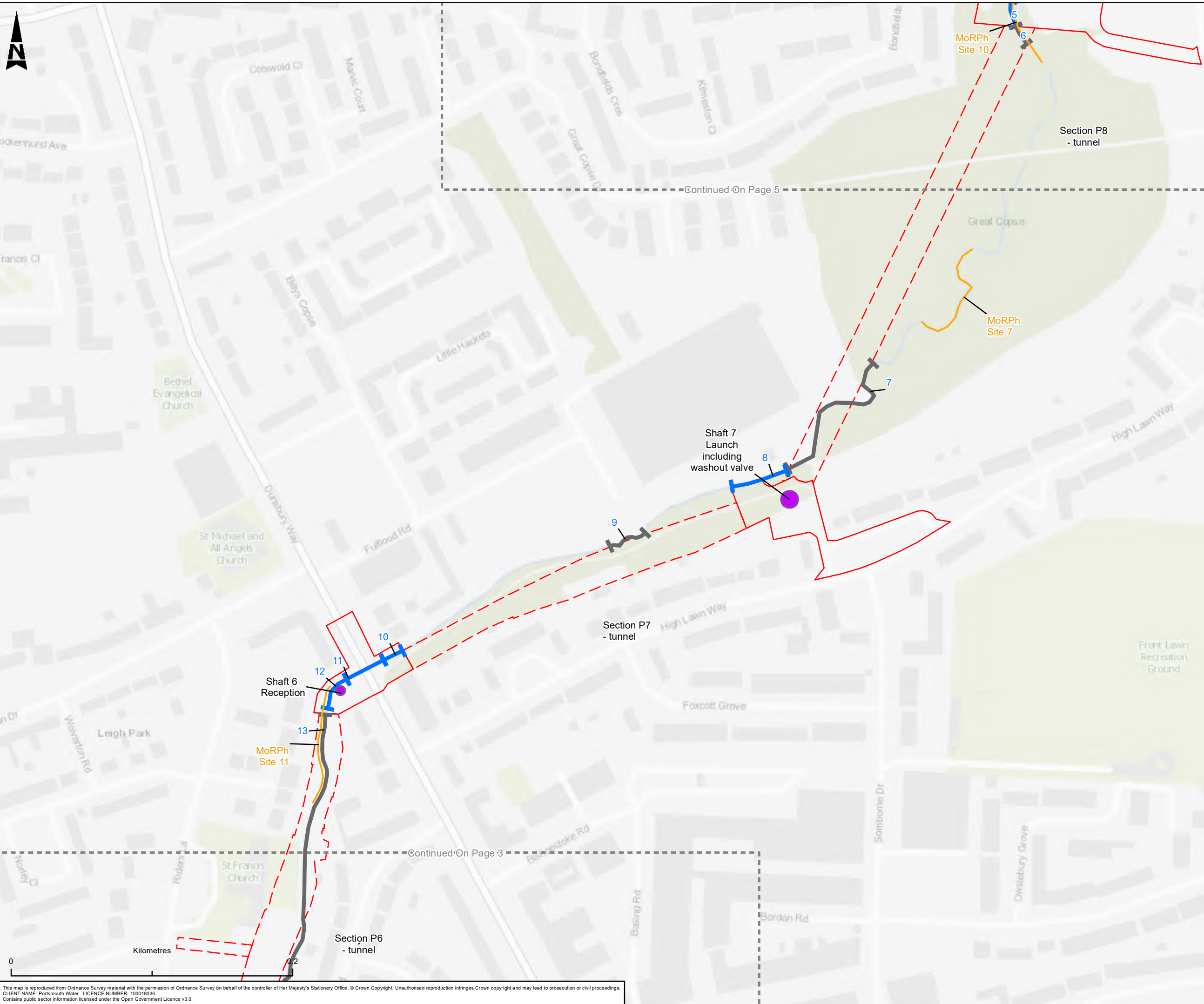


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Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.24
WATERCOURSE BNG REACHES
AND MORPH SURVEY LOCATIONS**

Portsmouth Water Drawing Number	Rev
	C03



- Pipeline Scheme Red Line Boundary**
- Surface and Underground Works - RLB
 - Surface and Underground Works Only - RLB
 - Adjacent Map Sheets
 - WFD River, Canal and Surface Water Transfer Waterbody
- MoRPh5 Survey Site and Overall Condition Class**
- 7 - Site 7 - Fairly Good
 - 10 - Site 10 - Moderate
 - 11 - Site 11 - Moderate
- BNG Reach**
- BNG Reach Used in Assessment
 - Underground Works Only BNG Reach

C03	NW	NL	AR	JF	PUBLISHED	26/04/2024
C02	NW	NL	AR	JF	PUBLISHED	24/04/2024
C01	NW	NL	AR	JF	PUBLISHED	23/04/2024
Rev.	Dm By	Ckd By	Rev By	Auth By	Description	Date



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Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0199
Project | Originator | Volume | Location | Type | Role | Number

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Registered Office: PO Box 8 West Street
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REGISTERED IN ENGLAND No. 2536455

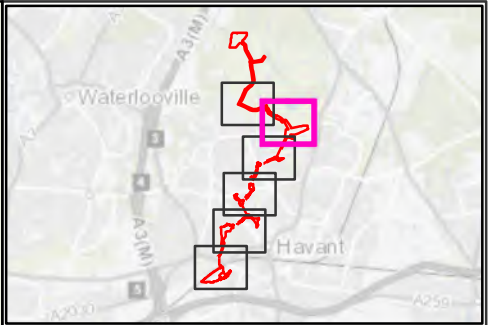
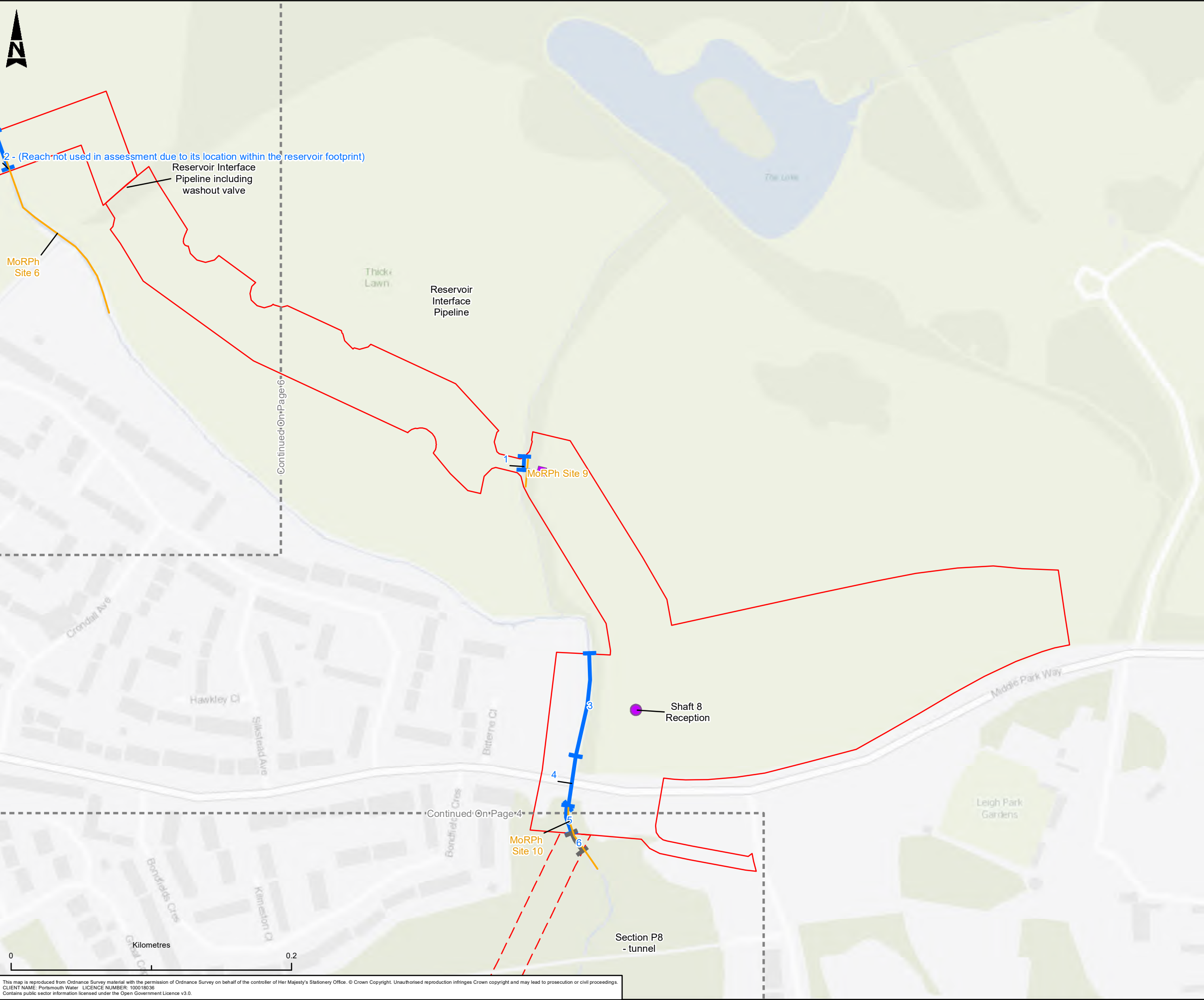


Project Ref. No	Sheet	Scale	Sheet Size
5169117	4 of 6	1:2,500	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 9.24
WATERCOURSE BNG REACHES
AND MORPH SURVEY LOCATIONS**

Portsmouth Water Drawing Number	Rev
	C03



Pipeline Scheme Red Line Boundary

- Surface and Underground Works - RLB
- Surface and Underground Works Only - RLB
- Adjacent Map Sheets
- WFD River, Canal and Surface Water Transfer Waterbody

MoRPh5 Survey Site and Overall Condition Class

- 6 - Site 6 - Moderate
- 9 - Site 9 - Moderate
- 10 - Site 10 - Moderate

BNG Reach

- BNG Reach Used in Assessment
- Underground Works Only BNG Reach

C03	NW	NL	AR	JF	PUBLISHED	26/04/2024
C02	NW	NL	AR	JF	PUBLISHED	24/04/2024
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Project Ref. No	Sheet	Scale	Sheet Size
5169117	5 of 6	1:2,500	A3

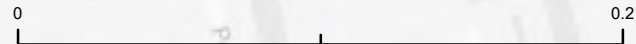
Project Title

HAVANT THICKET RESERVOIR

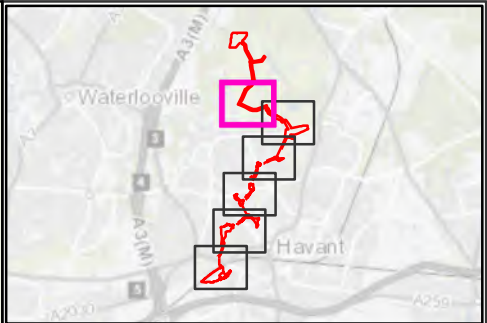
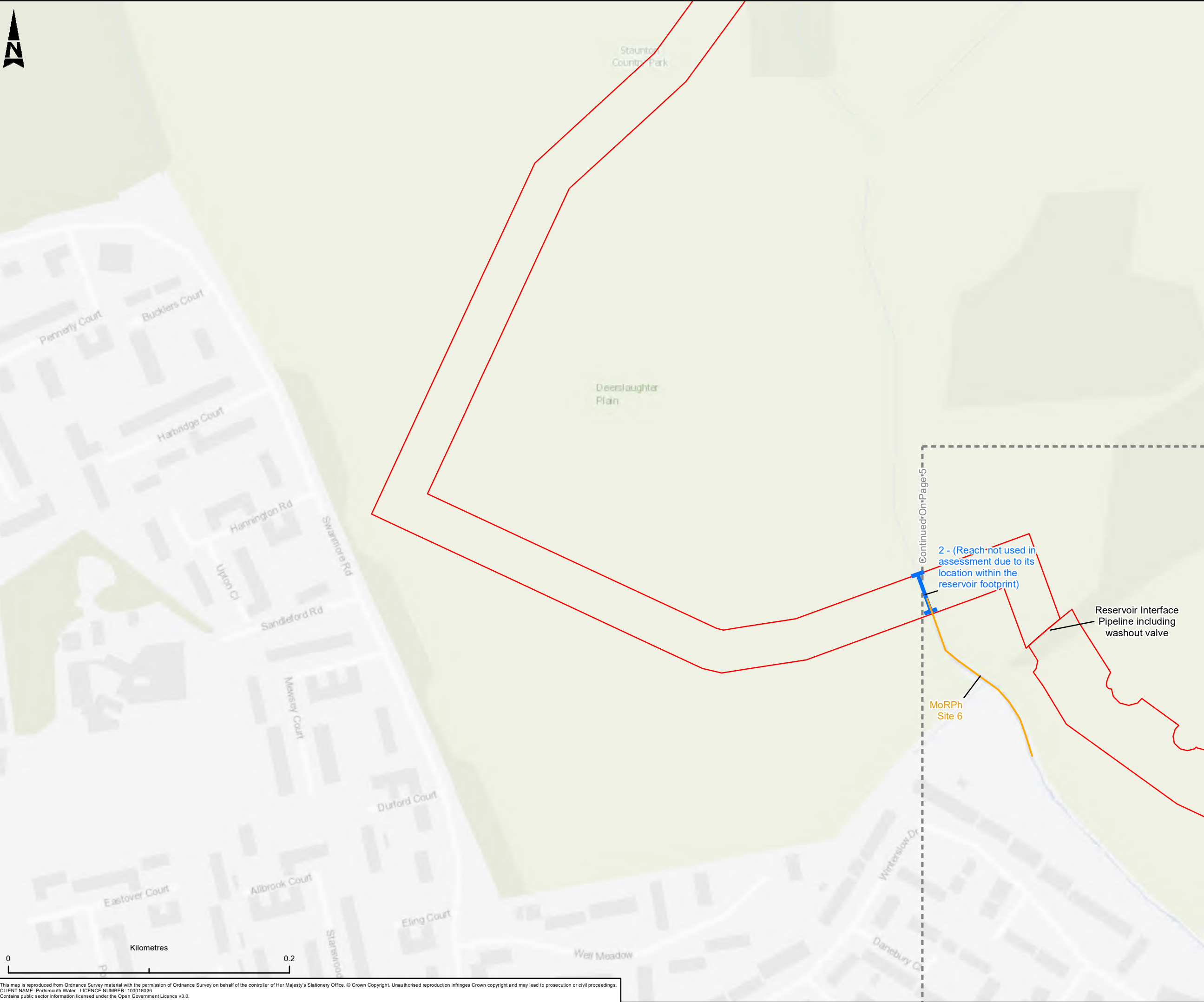
Drawing Title

**FIGURE 9.24
WATERCOURSE BNG REACHES
AND MORPH SURVEY LOCATIONS**

Portsmouth Water Drawing Number	Rev
	C03



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Pipeline Scheme Red Line Boundary

- Surface and Underground Works - RLB
- Adjacent Map Sheets
- WFD River, Canal and Surface Water Transfer Waterbody

MoRPh5 Survey Site and Overall Condition Class

- 6 - Site 6 - Moderate

BNG Reach

- BNG Reach Used in Assessment

C03	NW	NL	AR	JF	PUBLISHED	26/04/2024
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5169117	6 of 6	1:2,500	A3

Project Title

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Drawing Title

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AND MORPH SURVEY LOCATIONS**

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