

Lower Thames Crossing

6.3 Environmental Statement Appendices Appendix 8.17 - Draft EPS mitigation licence application - great crested newts (Clean version)

(4 of 8)

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications:
Prescribed Forms and Procedure)
Regulations 2009

Volume 6

DATE: December 2023
DEADLINE: 8

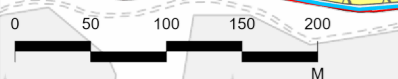
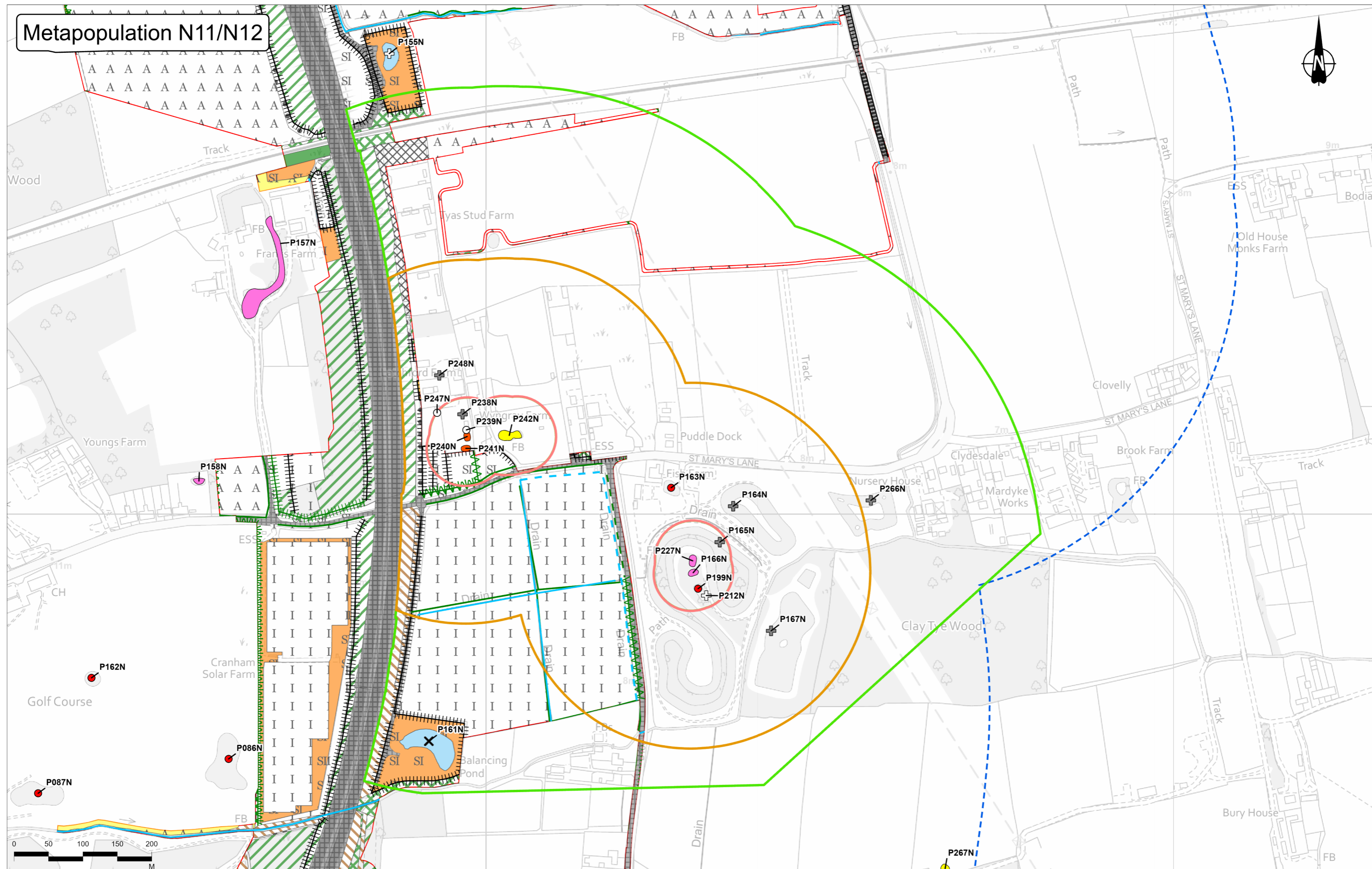
Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/6.3

VERSION: 2.0

Revision history

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	5 December 2023	Deadline 8

Metapopulation N11/N12



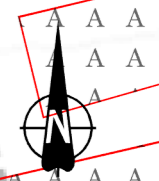
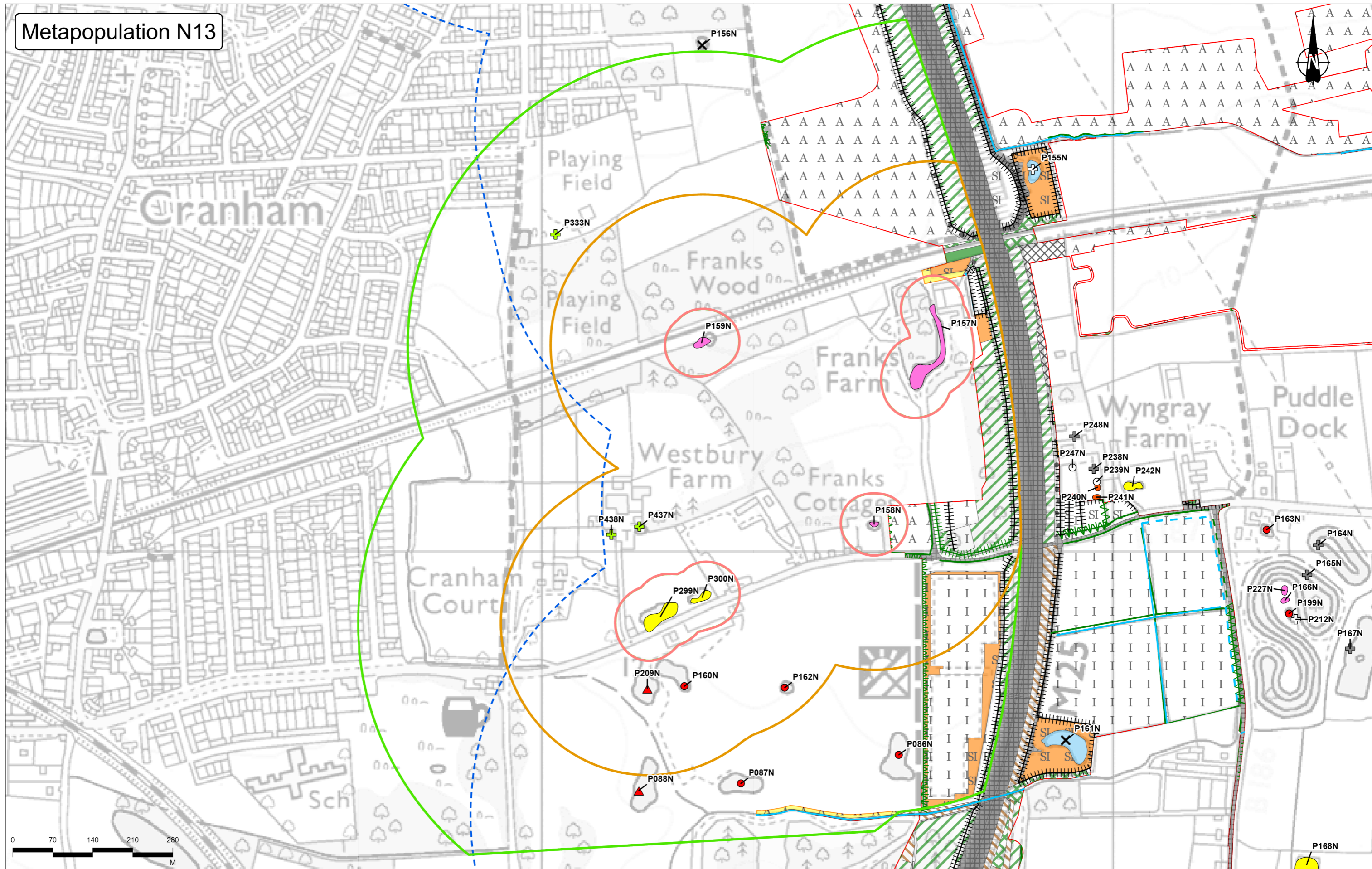
Legend		Pond Status, Survey Year	
Order Limits	250m pond buffer	Present - eDNA	Absent - eDNA (2018)
GCN Survey Area	500m pond buffer	Assumed present - No access	Dry
50m pond buffer	Present - Conventional	Absent - Conventional (2018)	No pond
	Ponds	Unsuitable	

Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

	Client	Status	DCO APPLICATION	Original Size	A3	Revision	P02
	Project	Application Document Number	TR010032/APP/6.2	Scale	1:5,000		
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		Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

Z:\Environment\Environmental Statement\08_Terrestrial Biodiversity\Licence_Figures\HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034 - Figure C3.2c - Detailed Metapopulation\HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034 - Figure C3.apr

Metapopulation N13



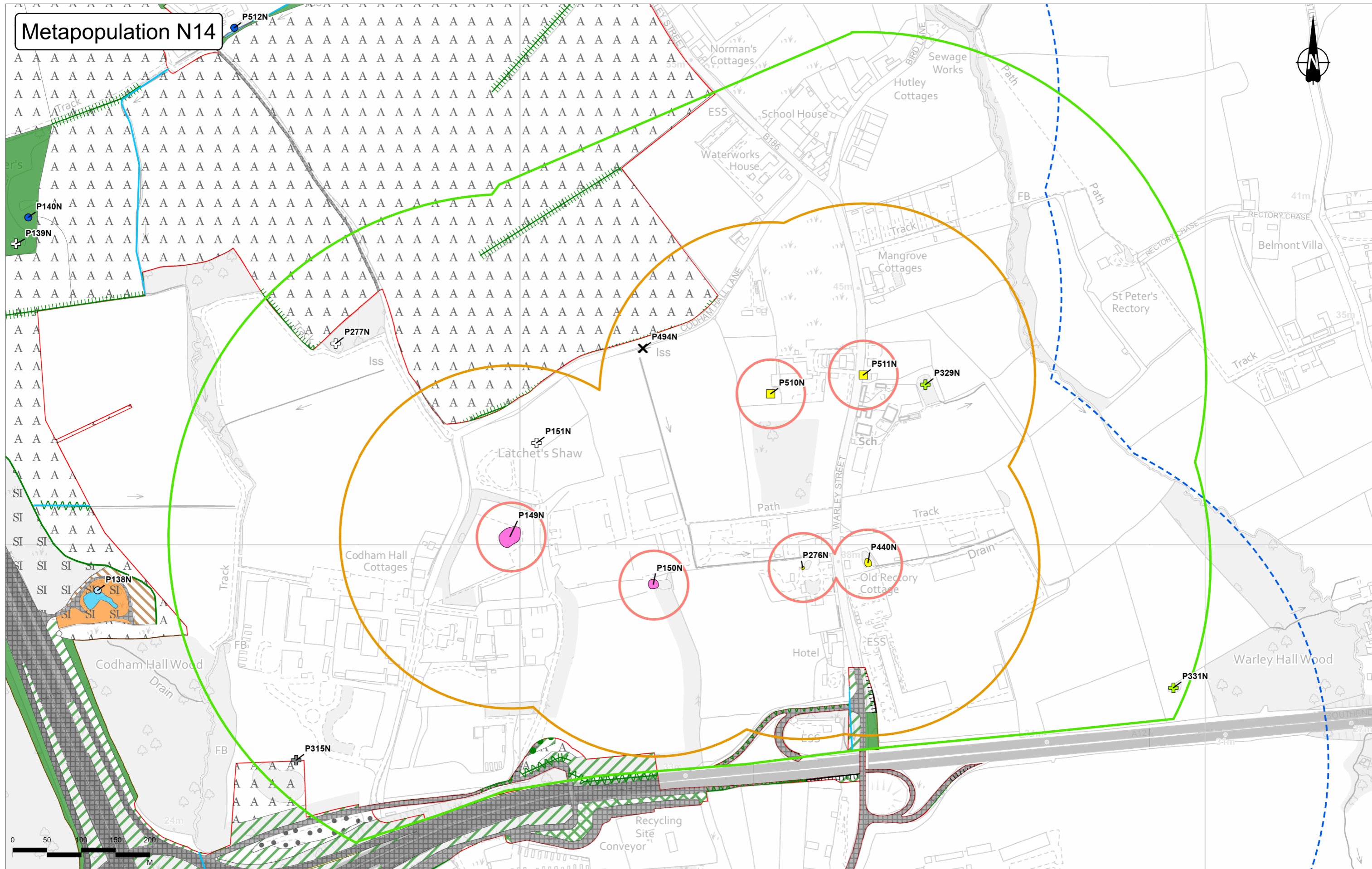
Legend

- Order Limits
- GCN Survey Area
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer
- Assumed present - No access
- Absent - Conventional (2018)
- Absent - eDNA (2018)
- Assumed absent - Conventional (2018)
- + Unknown - Scoped out
- + Dry
- X No pond
- + Unsuitable

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv

	Client	Status	DCO APPLICATION	Original Size	Revision
	Project	Application Document Number	TR010032/APP/6.2	A3	P02
	LOWER THAMES CROSSING	Drawing Title	Figure C3.2c Detailed Metapopulation N13	Scale	1:6,000
		Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60034		

Metapopulation N14



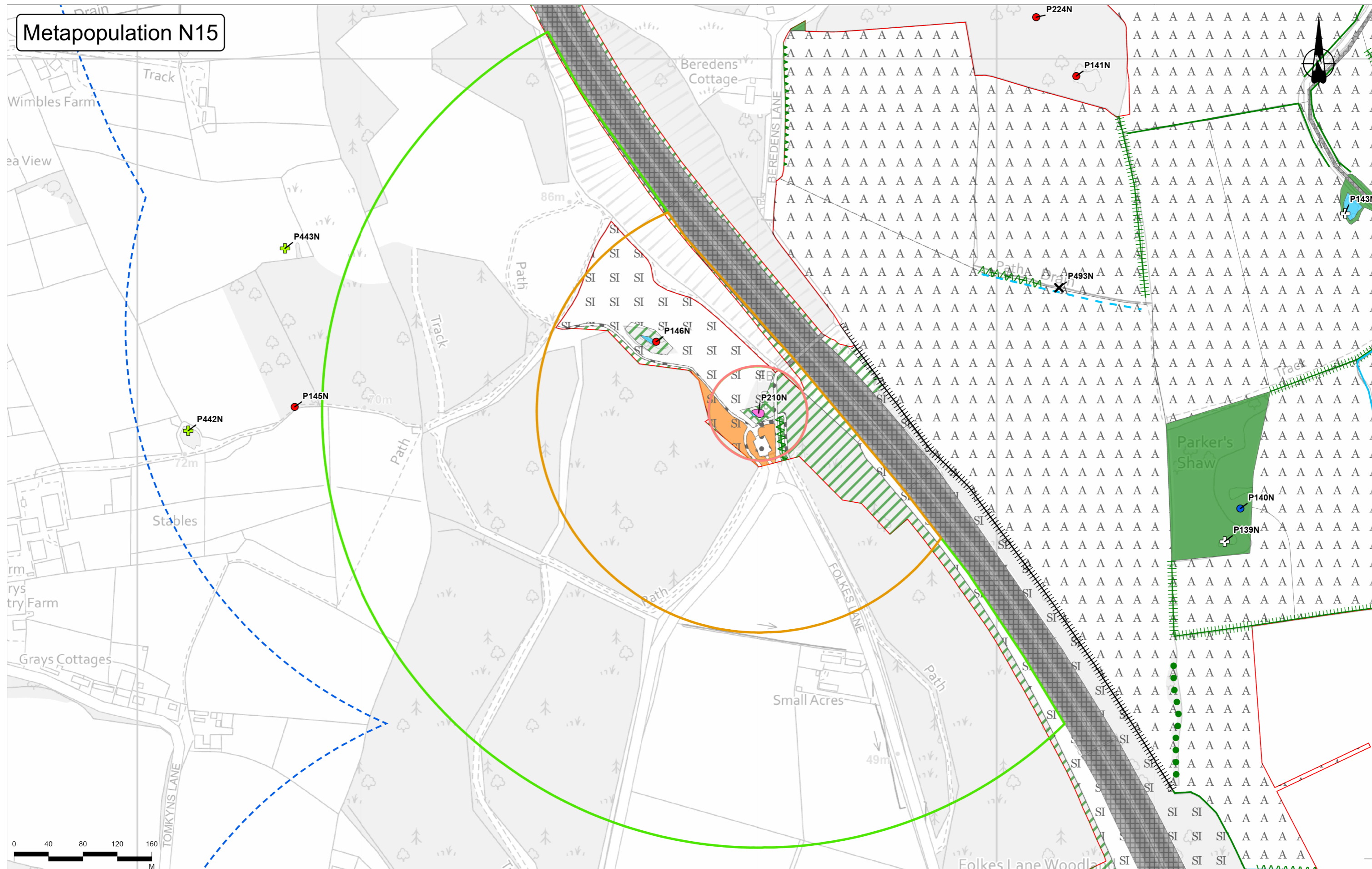
Legend

- Order Limits
- GCN Survey Area
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer
- Assumed present - No access
- Absent - eDNA (2019)
- Absent - eDNA (2022)
- Present - Conventional
- Assumed present - No access
- + Unknown - Scoped out
- + Dry
- X No pond
- + Unsuitable

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

	Status	DCO APPLICATION	Original Size	A3	Revision	P02
	Application Document Number	TR010032/APP/6.2	Scale	1:5,000		
	Drawing Title	Figure C3.2c Detailed Metapopulation N14				
		Page 26 of 38				
	Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60034				

Metapopulation N15



Legend		Pond Status, Survey Year	
Order Limits	250m pond buffer	Absent - Conventional (2018)	Dry
GCN Survey Area	500m pond buffer	Absent - eDNA (2022)	No pond
50m pond buffer	Present - Conventional	Unknown - Scoped out	

Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Project: LOWER THAMES CROSSING

Status: DCO APPLICATION

Application Document Number: TR010032/APP/6.2

Drawing Title: Figure C3.2c Detailed Metapopulation N15

Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034

Original Size: A3

Revision: P02

Scale: 1:4,000

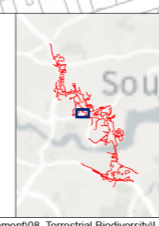
Metapopulation N16



P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

Legend

- Order Limits: Red line
- GCN Survey Area: Blue dashed line
- 50m pond buffer: Red outline
- 250m pond buffer: Orange outline
- 500m pond buffer: Green outline
- Assumed present - eDNA inconclusive: Blue square
- Pond Status, Survey Year**
- Absent - Conventional (2018): Red circle
- Assumed absent - eDNA (2020): Green triangle
- Present - eDNA: Orange square
- Assumed present - No access: Yellow square

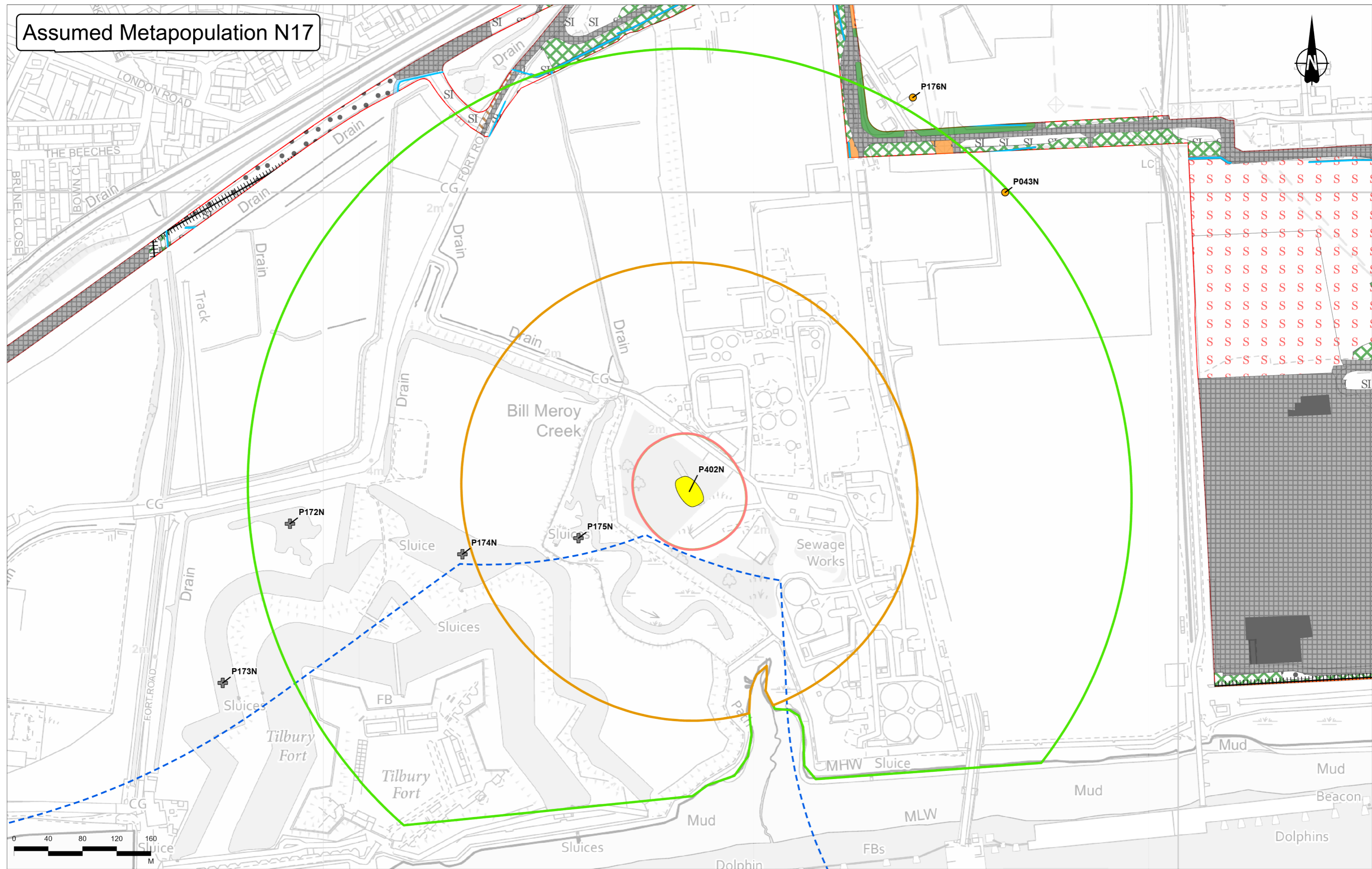


Client: **national highways**

Project: **LOWER THAMES CROSSING**

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Drawing Title	Figure C3.2c Detailed Metapopulation N16				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				
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Assumed Metapopulation N17

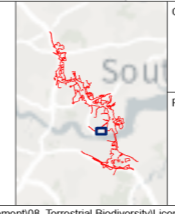


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved
P02	S8	19/09/2022	DCO Application	CD	HT	BF

- Legend**
- Order Limits
 - GCN Survey Area
 - 50m pond buffer
 - 250m pond buffer
 - 500m pond buffer
 - Ponds
 - Assumed present - No access

- Pond Status, Survey Year**
- Absent - Desk Study (No access) (2016 & 2017)
 - + Unsuitable

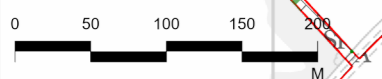
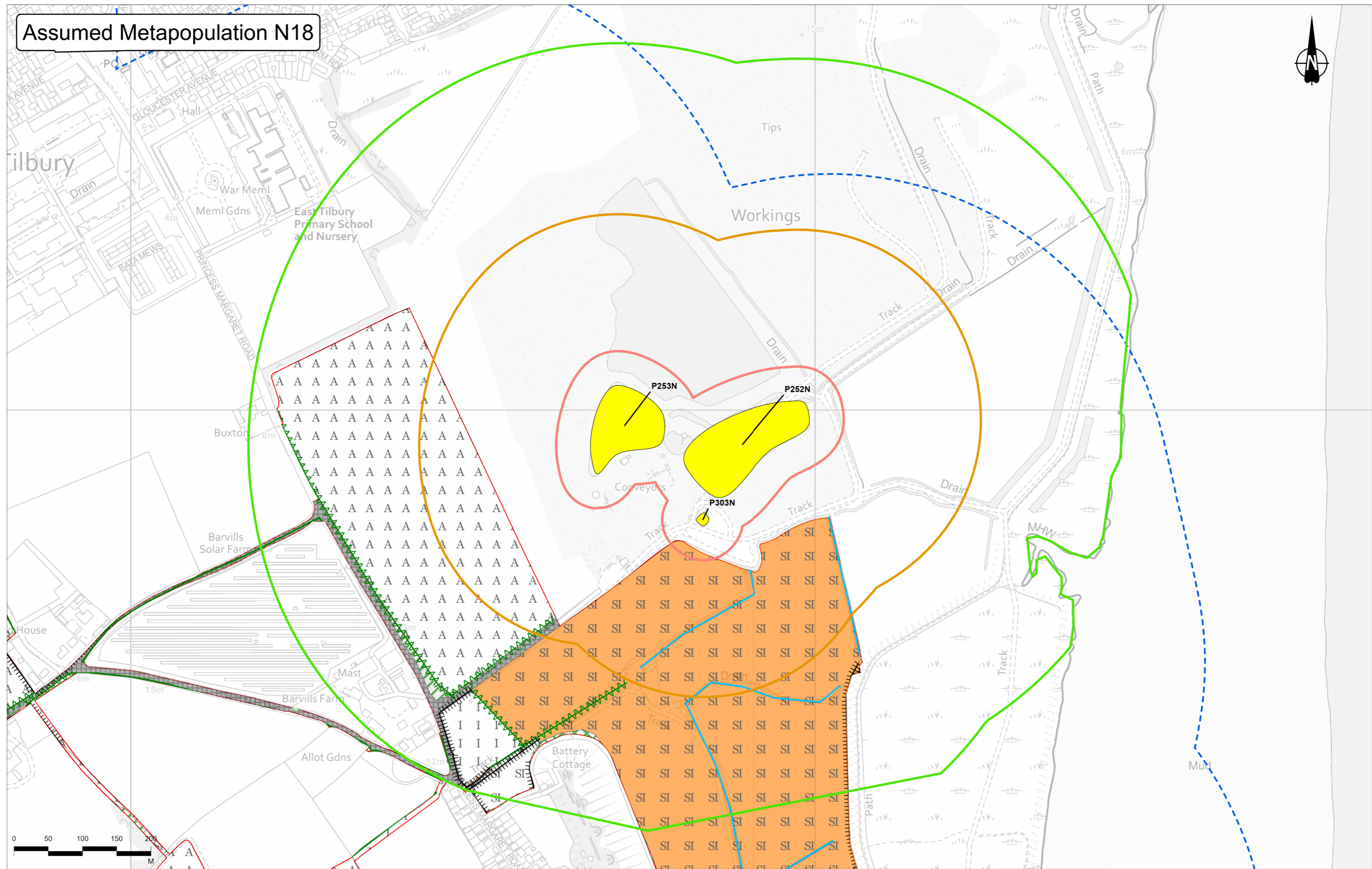


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Project
LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:4,000		
Drawing Title	Figure C3.2c Detailed Assumed Metapopulation N17 Page 29 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

Assumed Metapopulation N18



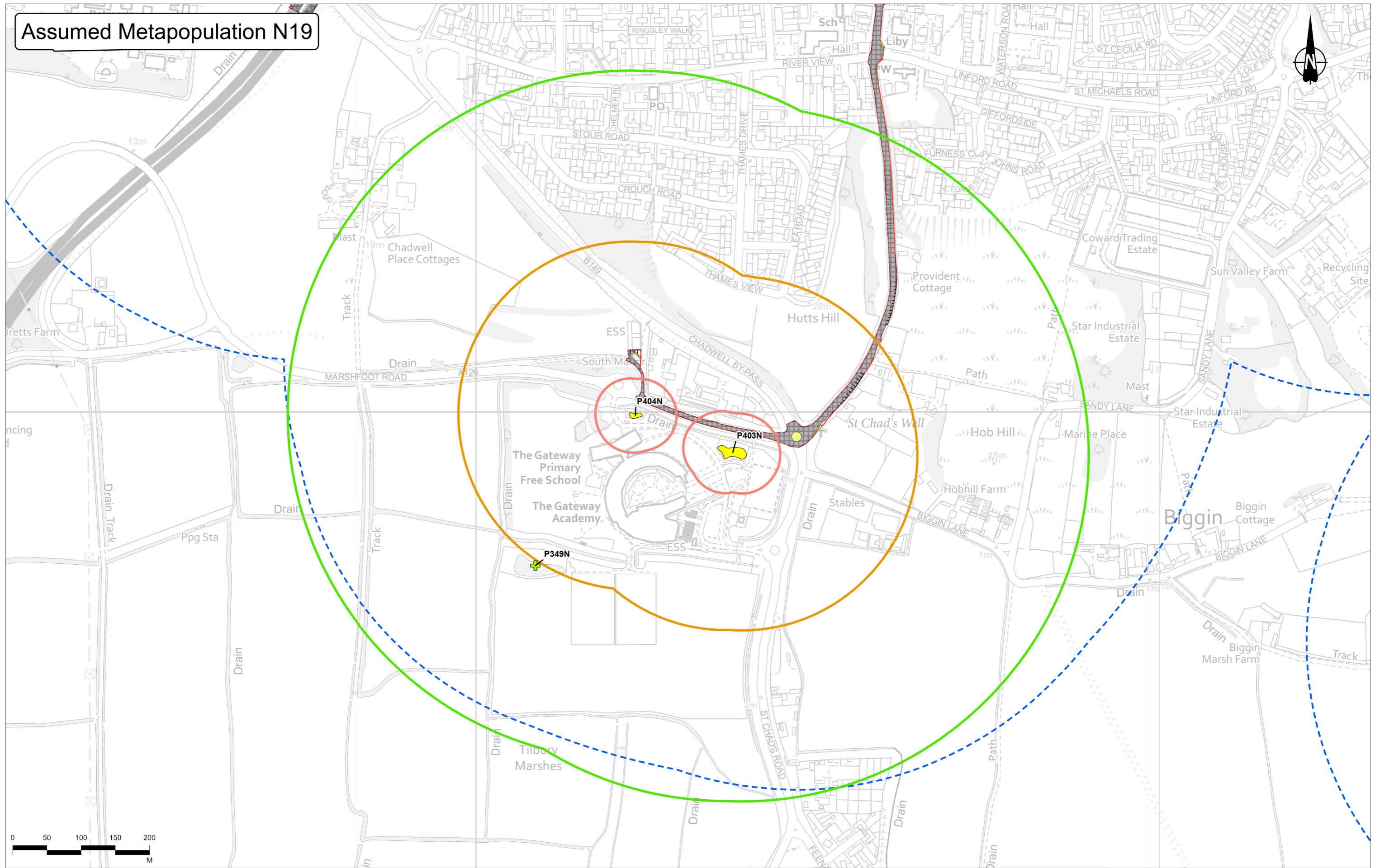
- Legend**
- Order Limits
 - GCN Survey Area
 - Pond buffers**
 - 50m pond buffer
 - 250m pond buffer
 - 500m pond buffer
 - Ponds**
 - Assumed present - No access

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd

	Client		Status	DCO APPLICATION	Original Size	A3	Revision	P02
	Project		Application Document Number	TR010032/APP/6.2	Scale	1:5,000		
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		Page 30 of 38						
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Assumed Metapopulation N19

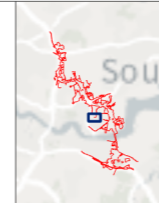


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved
P02	S8	19/09/2022	DCO Application	CD	HT	BF

- Legend**
- Order Limits
 - GCN Survey Area
 - Pond buffers
 - 50m pond buffer
 - 250m pond buffer
 - 500m pond buffer
 - Ponds
 - Assumed present - No access

- Pond Status, Survey Year**
- Unknown - Scoped out

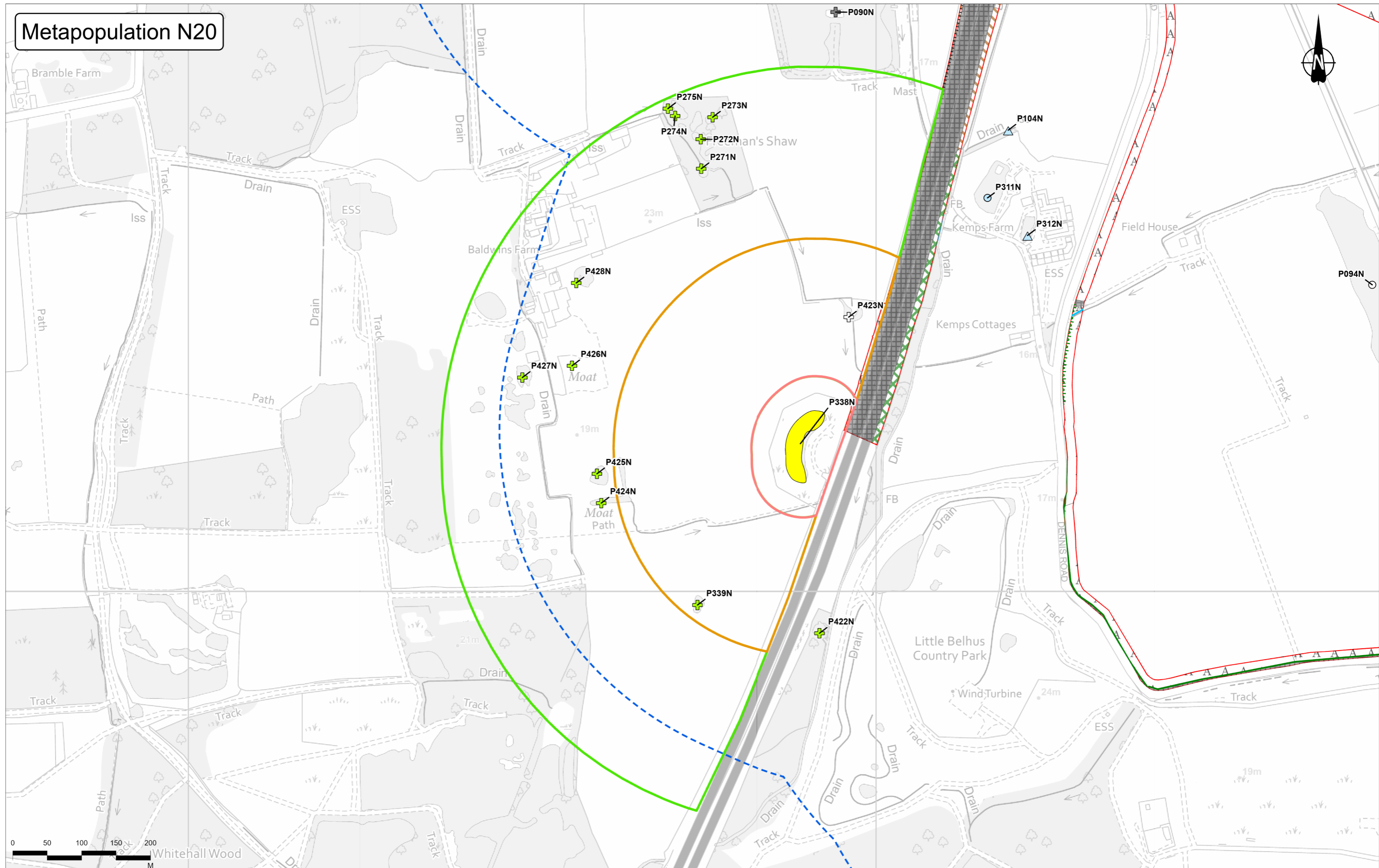


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Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P02
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Drawing Title	Figure C3.2c Detailed Assumed Metapopulation N19 Page 31 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

Metapopulation N20



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P02	S8	19/09/2022	DCO Application	CD	HT	BF
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Legend

- Order Limits (Red dashed line)
- GCN Survey Area (Blue dashed line)
- Pond buffers: 50m pond buffer (Red solid line)
- 250m pond buffer (Orange solid line)
- 500m pond buffer (Green solid line)
- Ponds: Assumed present - No access (Yellow fill)

Pond Status, Survey Year

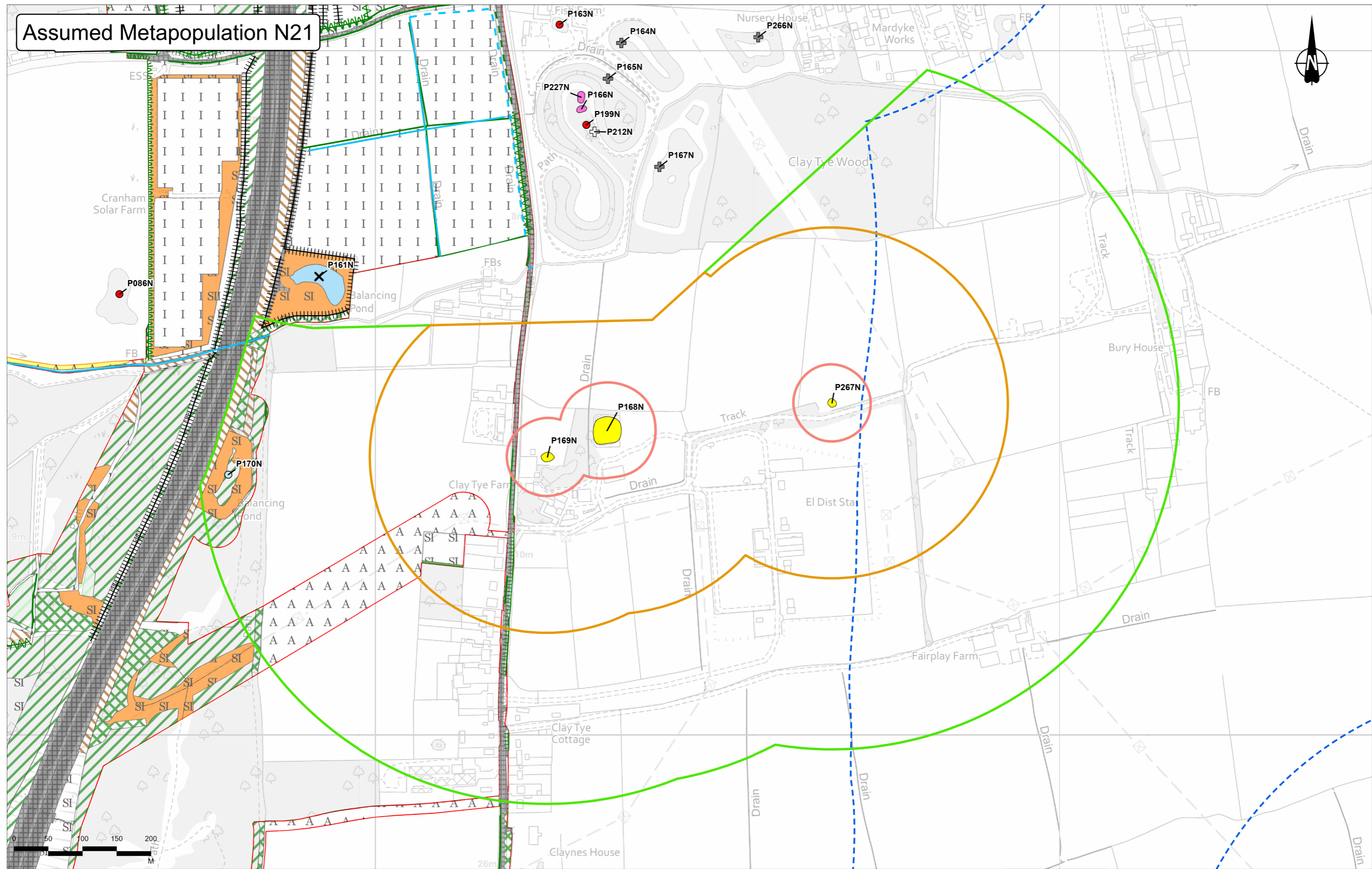
- Absent - eDNA (2018) (White circle)
- Absent - eDNA (2019) (Blue circle)
- Assumed absent - eDNA (2019) (Blue triangle)
- Unknown - Scoped out (Green cross)
- Dry (White cross)
- Unsuitable (Grey cross)

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Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:5,000		
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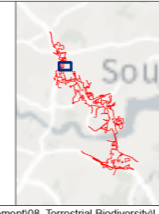
Assumed Metapopulation N21



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

- Legend**
- Order Limits
 - GCN Survey Area
 - 250m pond buffer
 - 500m pond buffer
 - 50m pond buffer
 - Assumed present - No access
 - Pond Status, Survey Year**
 - Absent - Conventional (2018)
 - Absent - eDNA (2019)
 - Present - Conventional
 - + Dry
 - ✕ No pond
 - + Unsuitable

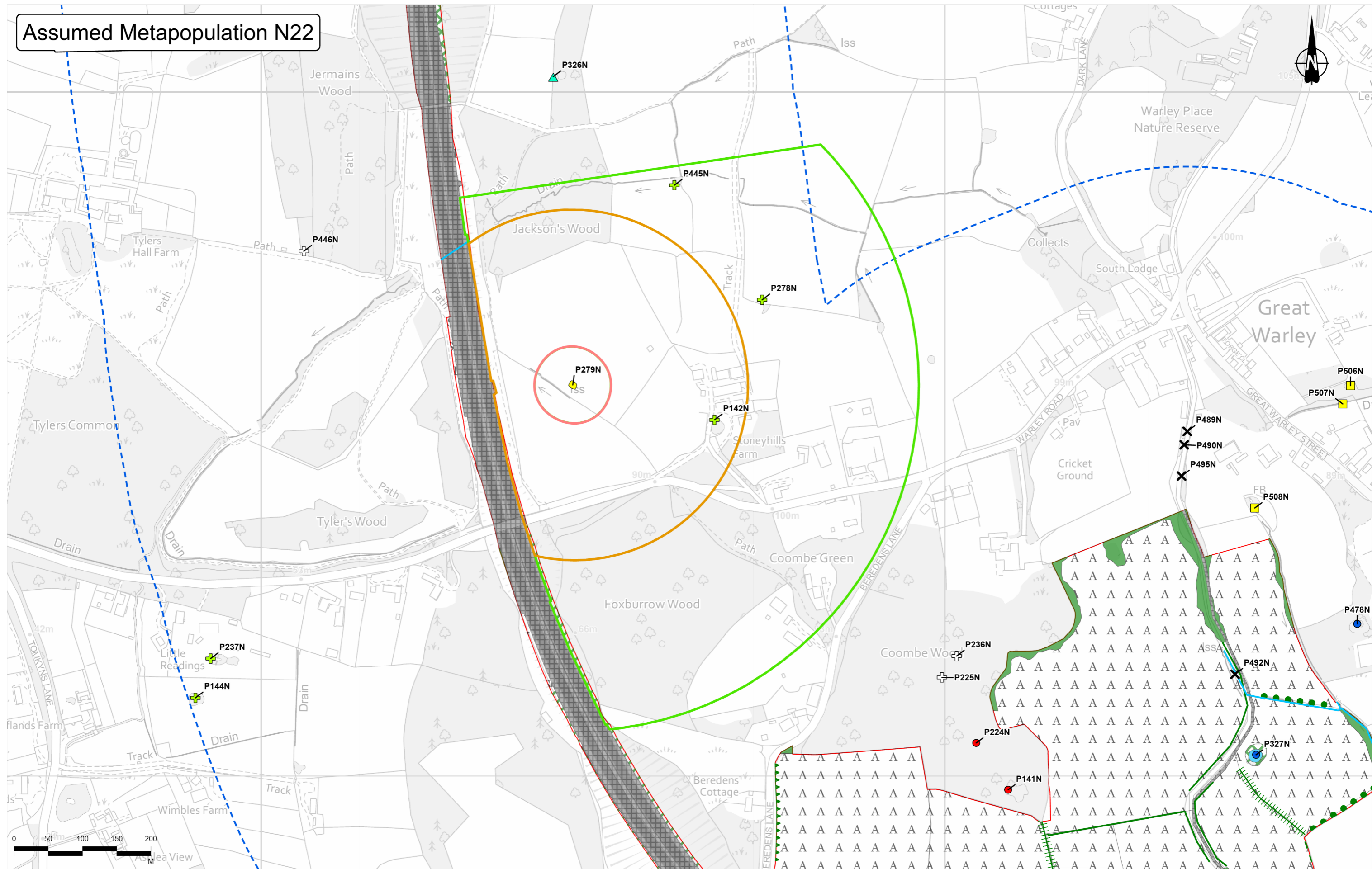


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LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P02
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Drawing Title	Figure C3.2c Detailed Assumed Metapopulation N21				
	Page 33 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

Assumed Metapopulation N22



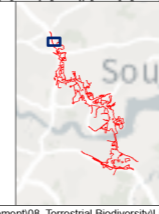
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P02	S8	19/09/2022	DCO Application	CD	HT	BF

Legend	
	Order Limits
	GCN Survey Area
	50m pond buffer
	250m pond buffer
	500m pond buffer
	Assumed present - No access
	Assumed present - No access

Pond Status, Survey Year	
	Assumed present - No access
	Absent - Conventional (2018)
	Absent - eDNA (2022)

	Assumed absent - eDNA (2020)
	Unknown - Scoped out
	Dry
	No pond

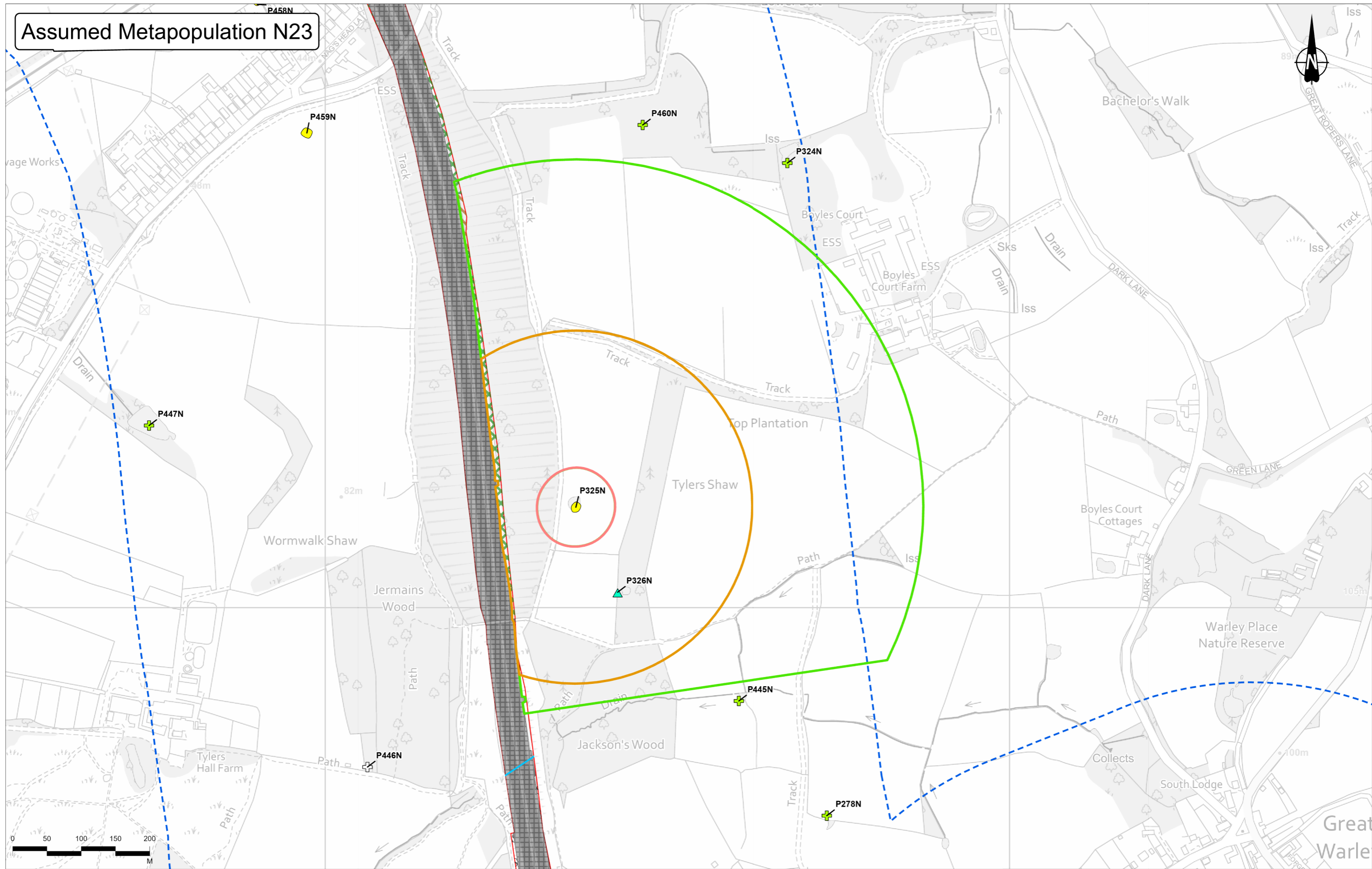


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Project: LOWER THAMES CROSSING

Status		Original Size	Revision
DCO APPLICATION		A3	P02
Application Document Number: TR010032/APP/6.2		Scale: 1:5,000	
Drawing Title: Figure C3.2c Detailed Assumed Metapopulation N22			
Page 34 of 38			
Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034			

Assumed Metapopulation N23

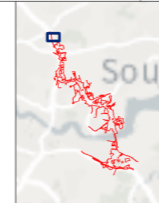


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

- Legend**
- Order Limits
 - GCN Survey Area
 - Pond buffers
 - 50m pond buffer
 - 250m pond buffer
 - 500m pond buffer
 - Ponds
 - Assumed present - No access

- Pond Status, Survey Year**
- Assumed absent - eDNA (2020)
 - Unknown - Scoped out
 - Dry

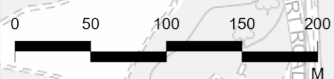
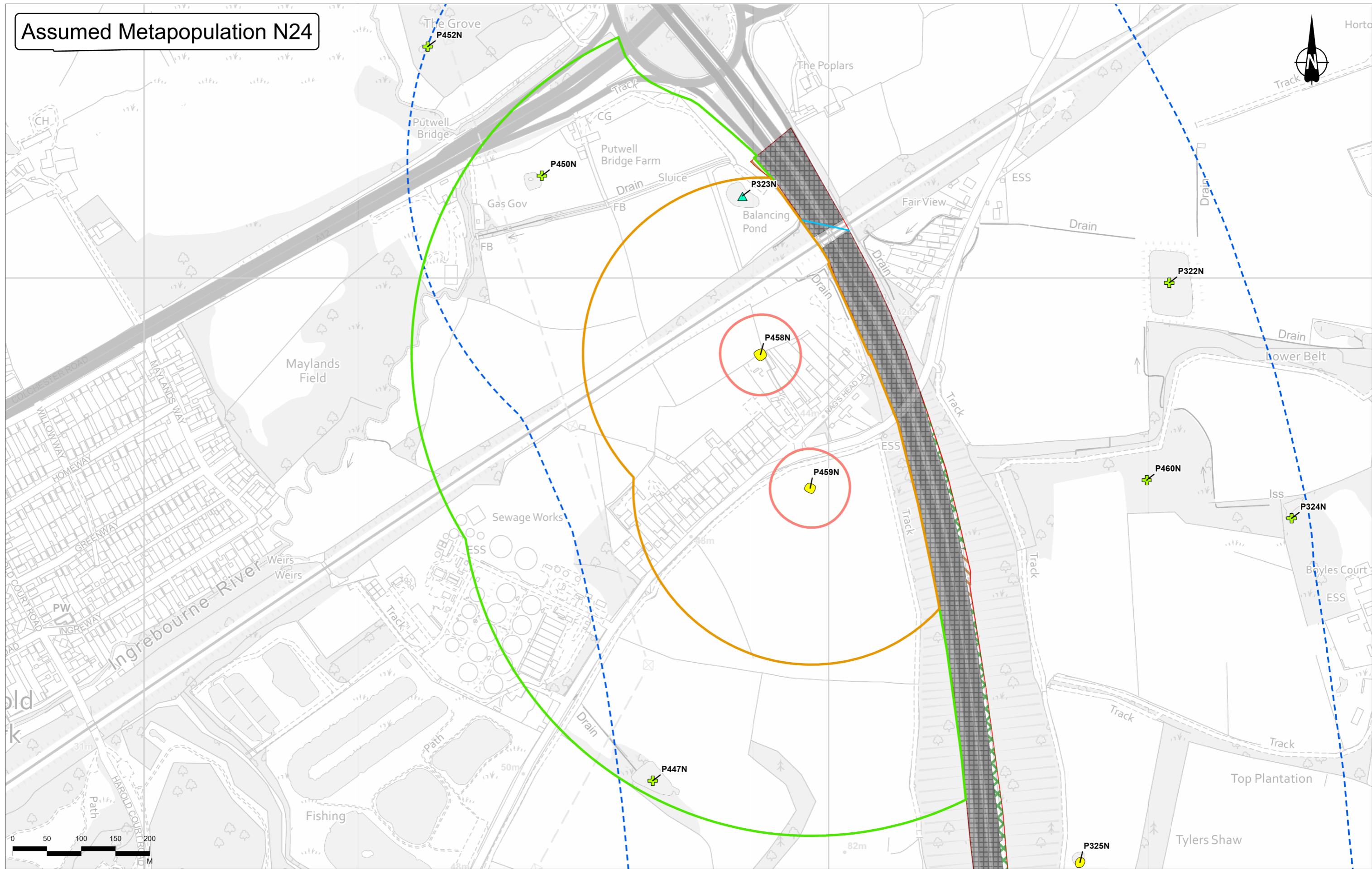


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LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:5,000		
Drawing Title	Figure C3.2c Detailed Assumed Metapopulation N23				
	Page 35 of 38				
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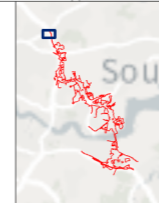
Assumed Metapopulation N24



Legend

- Order Limits
- GCN Survey Area
- Pond buffers**
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer
- Ponds**
- Assumed absent - eDNA (2020)
- Unknown - Scoped out
- Assumed present - No access

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved



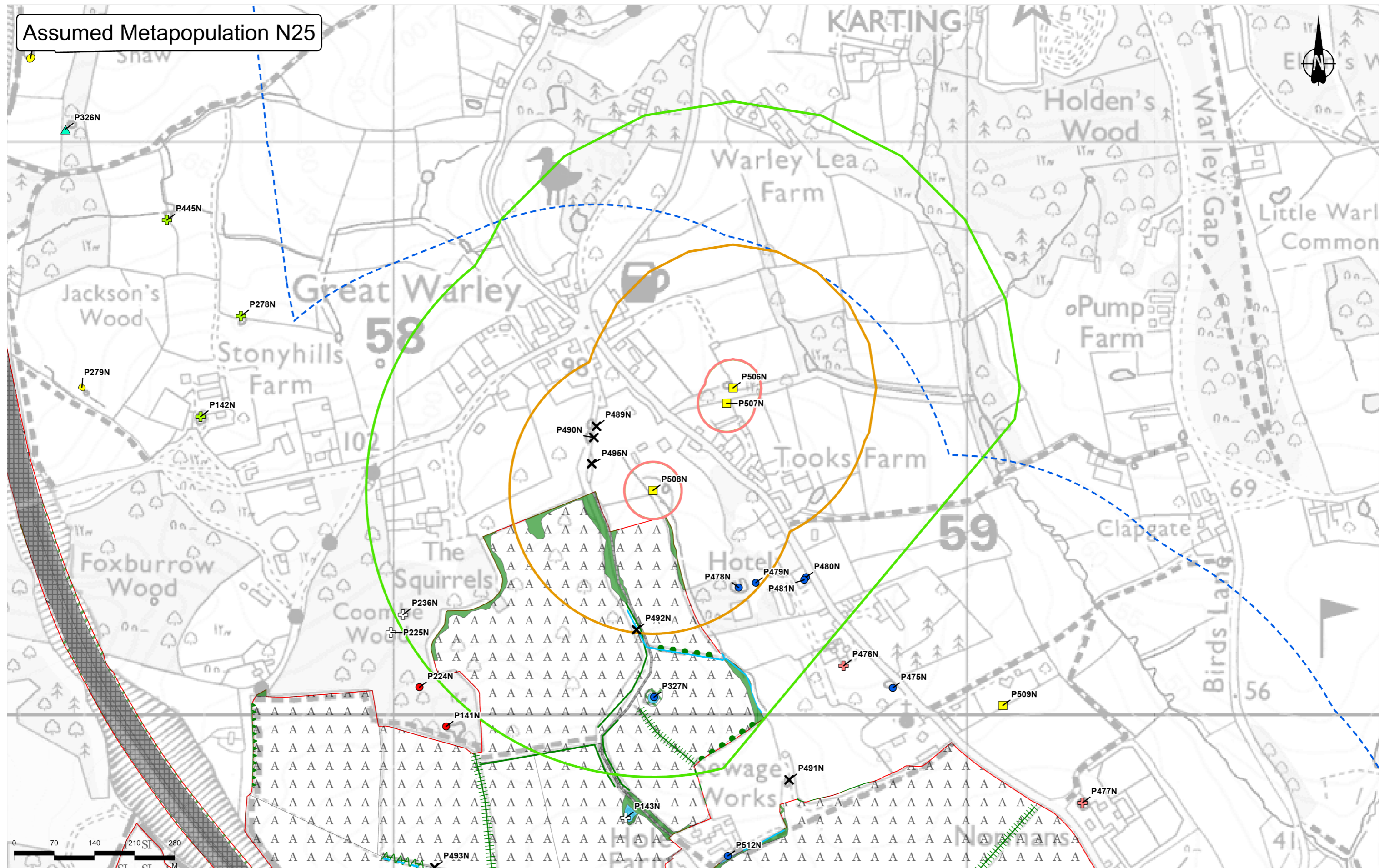
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Project
LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P02
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	Page 36 of 38				
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Assumed Metapopulation N25

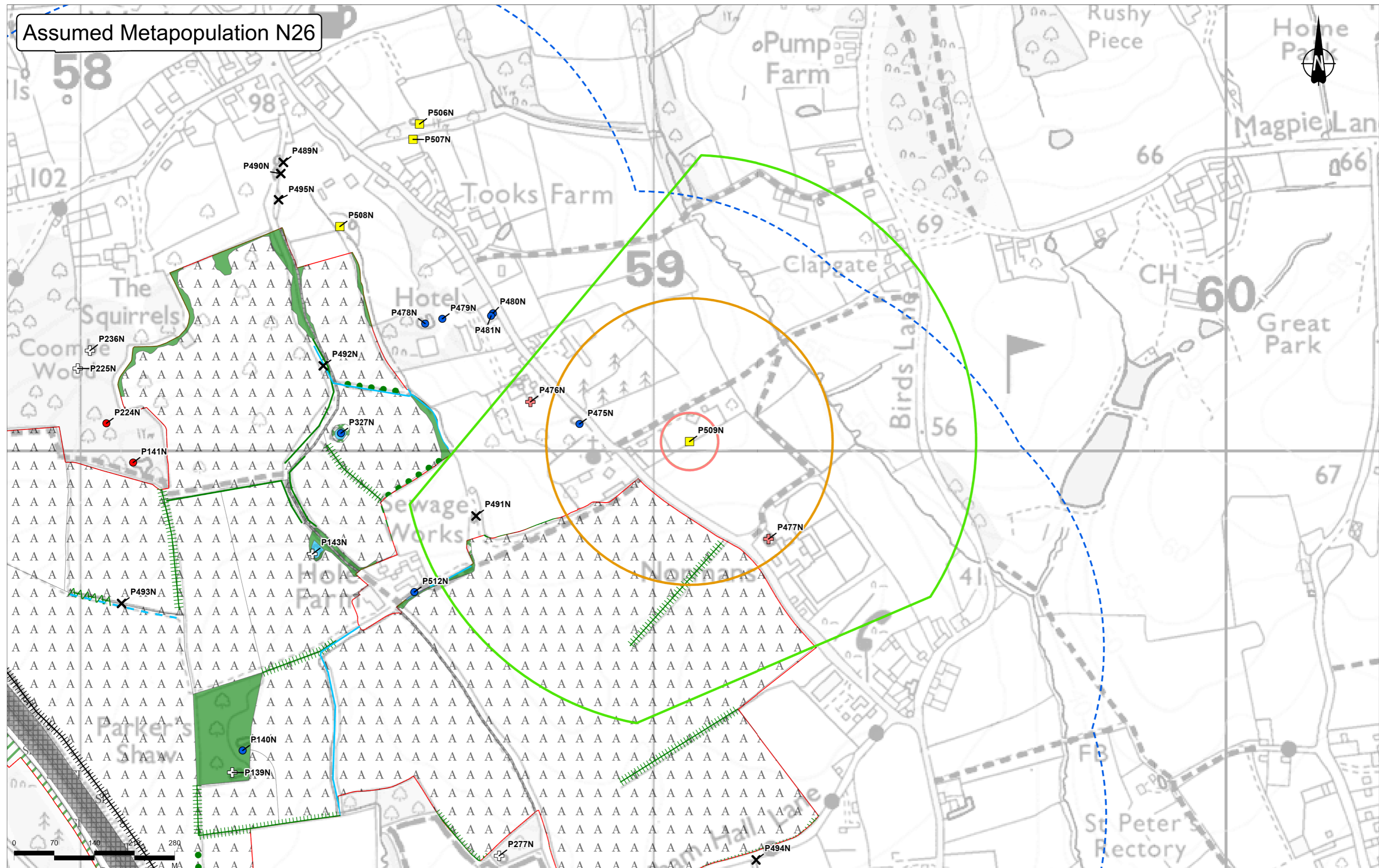


Legend	
Order Limits	500m pond buffer
GCN Survey Area	Ponds
50m pond buffer	Assumed present - No access
250m pond buffer	Pond Status, Survey Year
Absent - Conventional (2018)	Absent - eDNA (2022)
Absent - eDNA (2022)	Assumed absent - eDNA (2020)
Assumed absent - eDNA (2020)	Unknown - Scoped out
Unknown - Scoped out	Dry
Dry	No pond
No pond	Scoped out - unsuitable (2022)
Scoped out - unsuitable (2022)	

Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

	Client	DCO APPLICATION	Original Size	A3	Revision	P02
	Application Document Number	TR010032/APP/6.2	Scale	1:6,000		
	Drawing Title	Figure C3.2c Detailed Assumed Metapopulation N25				
	Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				
	Page	Page 37 of 38				

Assumed Metapopulation N26



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Legend

Order Limits	250m pond buffer	Absent - Conventional (2018)	No pond
GCN Survey Area	500m pond buffer	Absent - eDNA (2022)	Scoped out - unsuitable (2022)
50m pond buffer	Assumed present - No access	Dry	

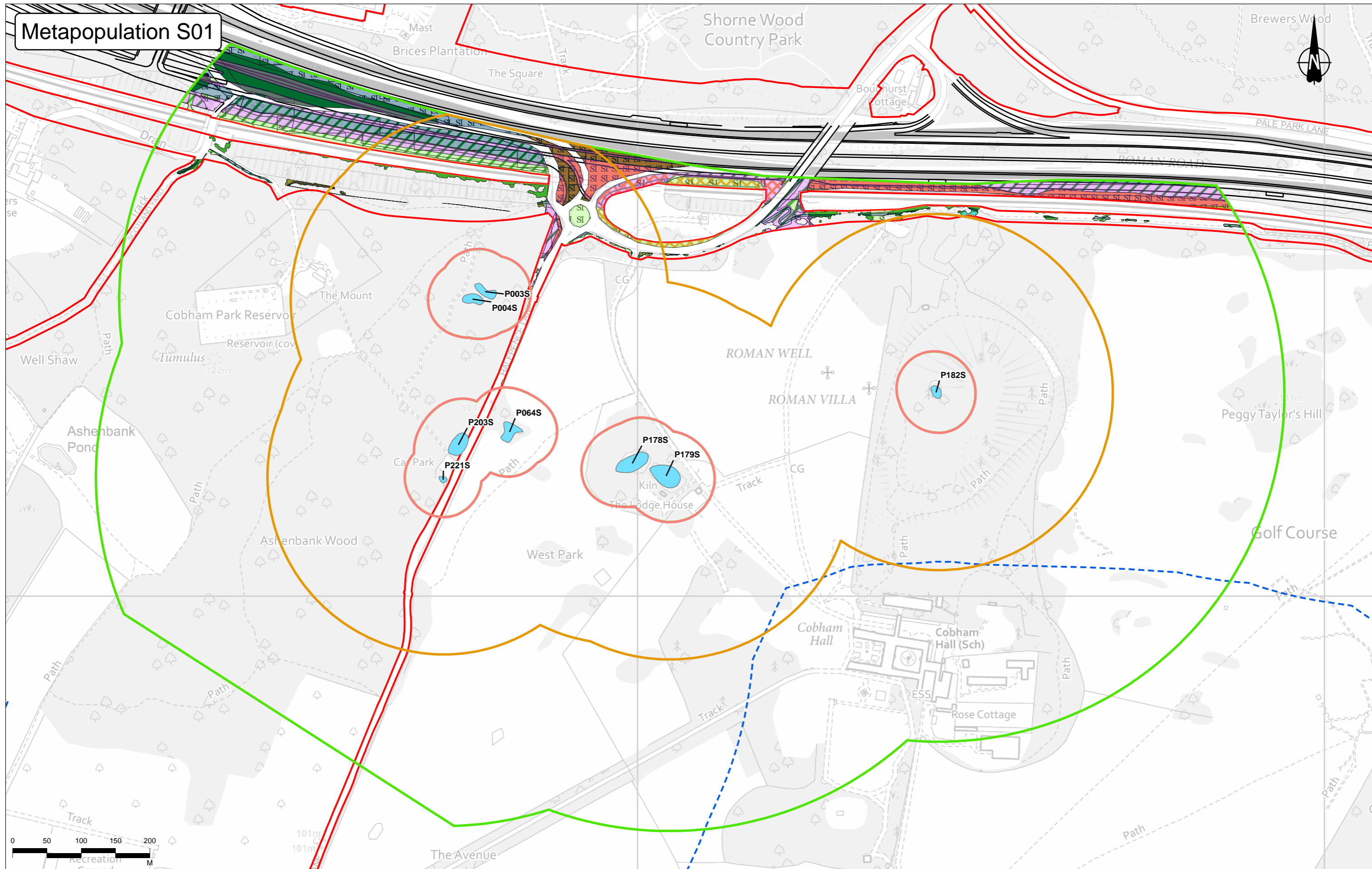
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:6,000		
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	Page 38 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

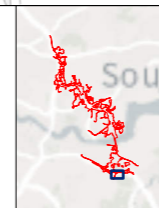
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Metapopulation S01



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Habitat Impact Category
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Broad-leaved semi-natural woodland
Temporary habitat loss	Broad-leaved plantation woodland
Phase 1 Habitat	Dense/continuous scrub
Semi-improved neutral grassland	Continuous bracken
Unimproved calcareous grassland	Tall ruderal
Semi-improved calcareous grassland	Standing water
Poor semi-improved grassland	Arable
Bare ground	Amenity grassland
Other habitat	

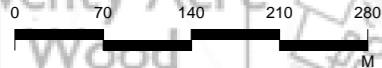
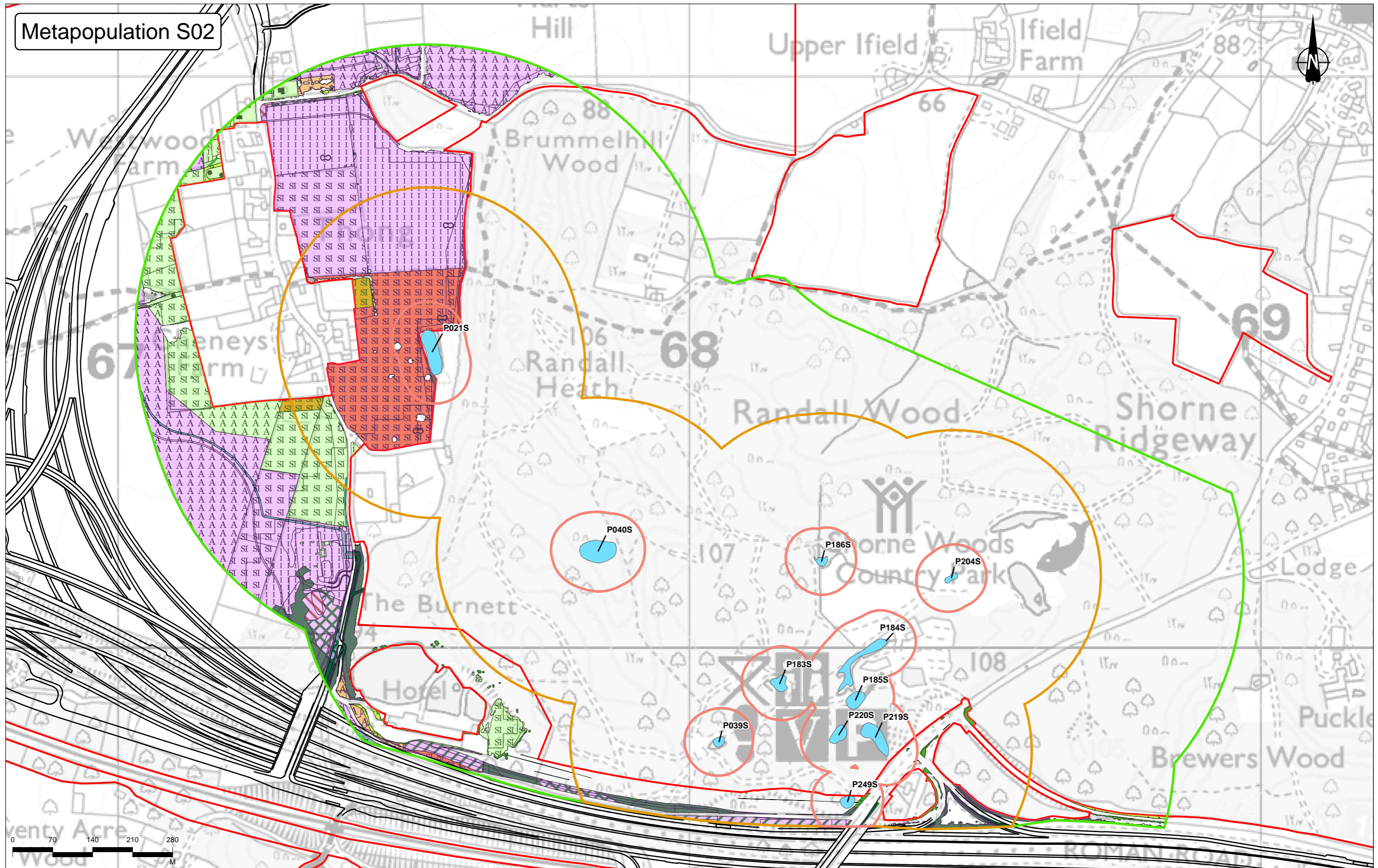


Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation S01 Page 1 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

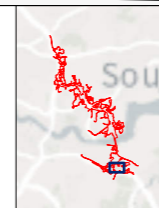
Metapopulation S02



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend

- | | | | | |
|-----------------|--------------------------------------|------------------------------------|---------------------------------|-------------------|
| Order Limits | Permanent habitat loss (landscaping) | Permanent habitat loss (alignment) | Semi-improved neutral grassland | Arable |
| Route alignment | 50m pond buffer | Temporary habitat loss | Improved grassland | Amenity grassland |
| GCN survey area | 250m pond buffer | Phase 1 Habitat | Poor semi-improved grassland | Buildings |
| Ponds | 500m pond buffer | Broad-leaved semi-natural woodland | Tall ruderal | Bare ground |
| Ponds | Habitat Impact Category | Broad-leaved plantation woodland | Standing water | Other habitat |
| | Permanent habitat loss (landscaping) | Dense/continuous scrub | | |



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Metapopulation S02				
	Page 2 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

Metapopulation S03



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend

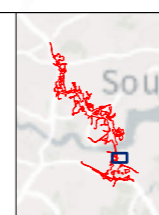
- Order Limits
- Route alignment
- GCN survey area
- Ponds
- Ponds

Pond buffers

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

Habitat Impact Category

- Permanent habitat loss (alignment)
- Temporary habitat loss
- Phase 1 Habitat
- Arable
- Permanent habitat loss (landscaping)

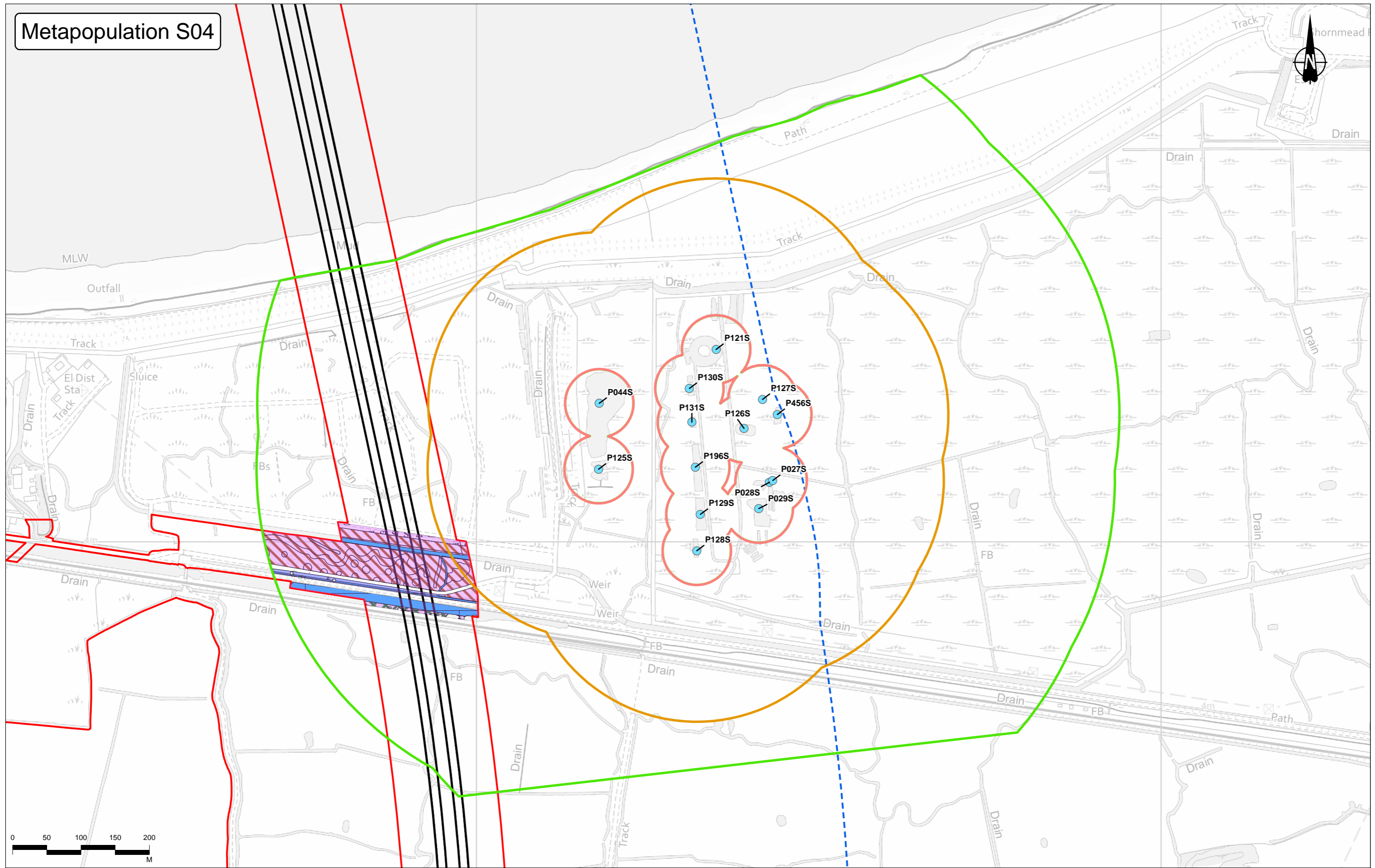


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Metapopulation S03 Page 3 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

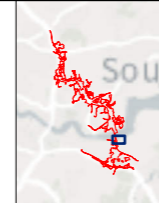
Metapopulation S04



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

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Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Permanent habitat loss (alignment)
Ponds	Temporary habitat loss
Permanent habitat loss (landscaping)	Phase 1 Habitat
Permanent habitat loss (landscaping)	Dense/continuous scrub
Tall ruderal	Poor semi-improved grassland
Swamp	Standing water
Standing water	Running water
Running water	Other habitat



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation S04				
	Page 4 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

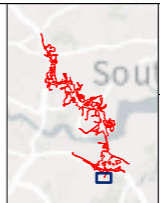
Assumed Metapopulation S05



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P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

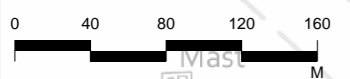
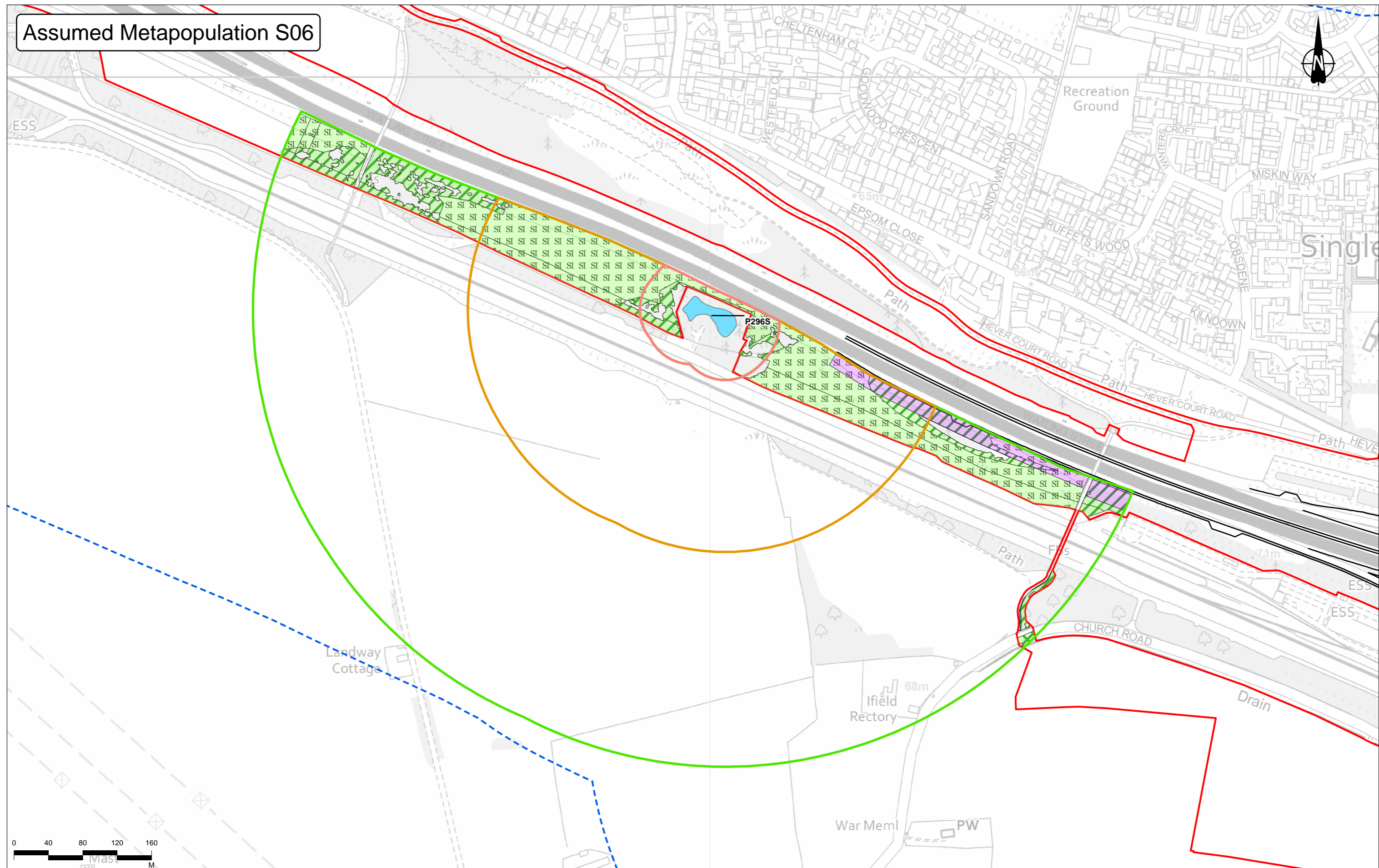
Legend		Habitat Impact Category		Phase 1 Habitat	
	Order Limits		Ponds		Semi-improved neutral grassland
	Route alignment		Permanent habitat loss (landscaping)		Poor semi-improved grassland
	GCN survey area		Permanent habitat loss (alignment)		Arable
	Ponds		Temporary habitat loss		Other habitat
	50m pond buffer				
	250m pond buffer				
	500m pond buffer				



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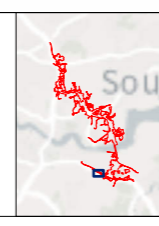
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Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S05 Page 5 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

Assumed Metapopulation S06



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Habitat Impact Category	Phase 1 Habitat
Order Limits	Ponds	Permanent habitat loss (landscaping)	Broad-leaved plantation woodland
Route alignment	Pond buffers	Permanent habitat loss (alignment)	Dense/continuous scrub
GCN survey area	50m pond buffer	Temporary habitat loss	Poor semi-improved grassland
Ponds	250m pond buffer		Arable
	500m pond buffer		

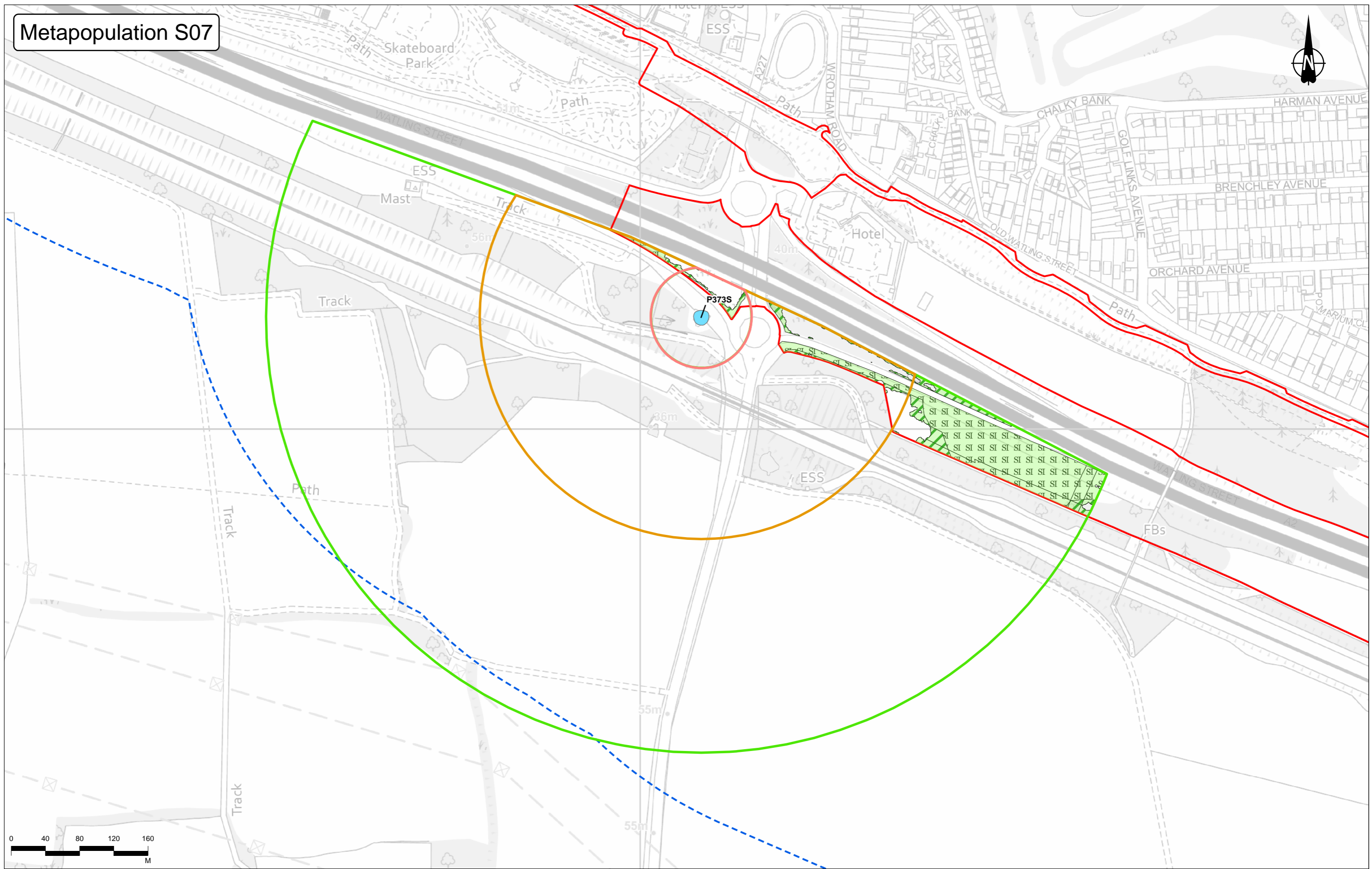


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S06 Page 6 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

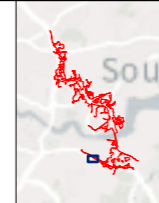
Metapopulation S07



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Broad-leaved plantation woodland
Ponds	Poor semi-improved grassland
Permanent habitat loss (landscaping)	

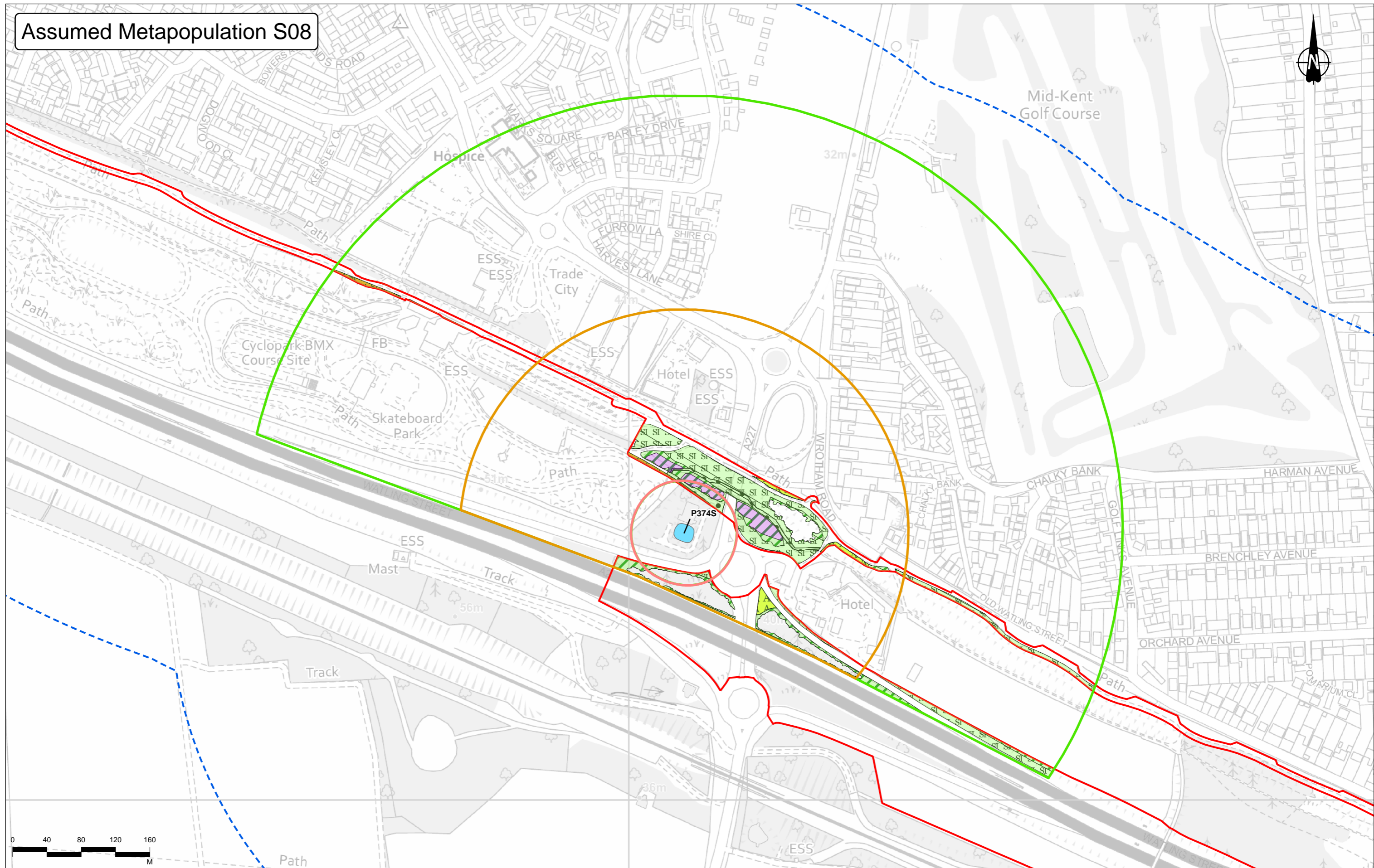
Permanent habitat loss (alignment)
Temporary habitat loss
Phase 1 Habitat
Broad-leaved plantation woodland
Poor semi-improved grassland



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure D - Impact Map Metapopulation S07 Page 7 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

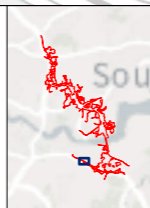
Assumed Metapopulation S08



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Habitat Impact Category
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Broad-leaved plantation woodland
Semi-improved neutral grassland	Improved grassland
Poor semi-improved grassland	Amenity grassland
Buildings	Bare ground

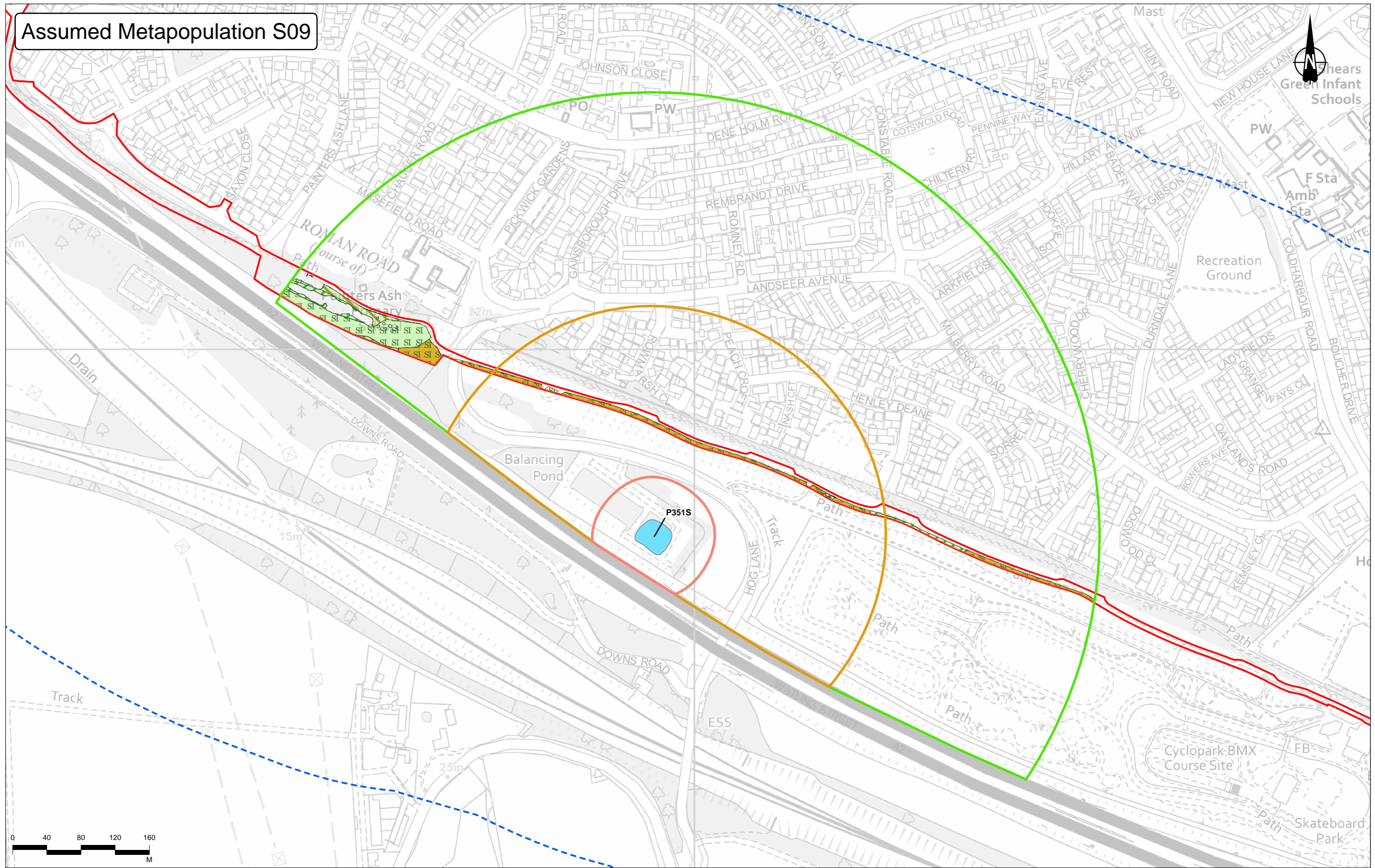


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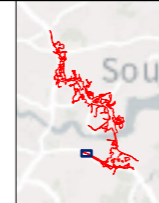
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Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S08 Page 8 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

Assumed Metapopulation S09



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Broad-leaved plantation woodland
Ponds	Semi-improved neutral grassland
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Poor semi-improved grassland
Broad-leaved plantation woodland	Tall ruderal
Semi-improved neutral grassland	Bare ground
Permanent habitat loss (landscaping)	

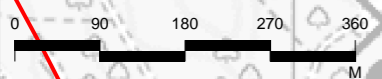
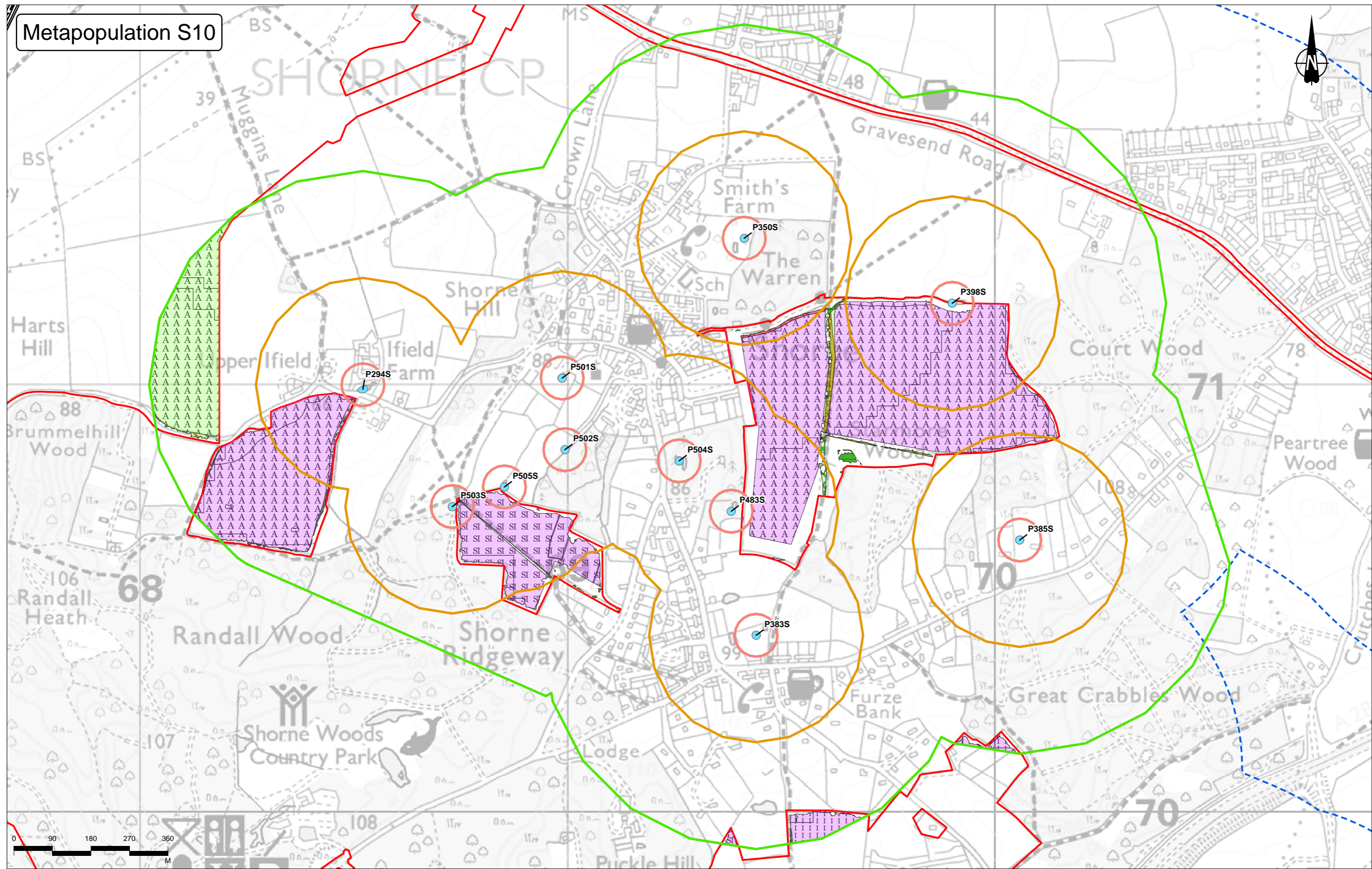


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Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S09 Page 9 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

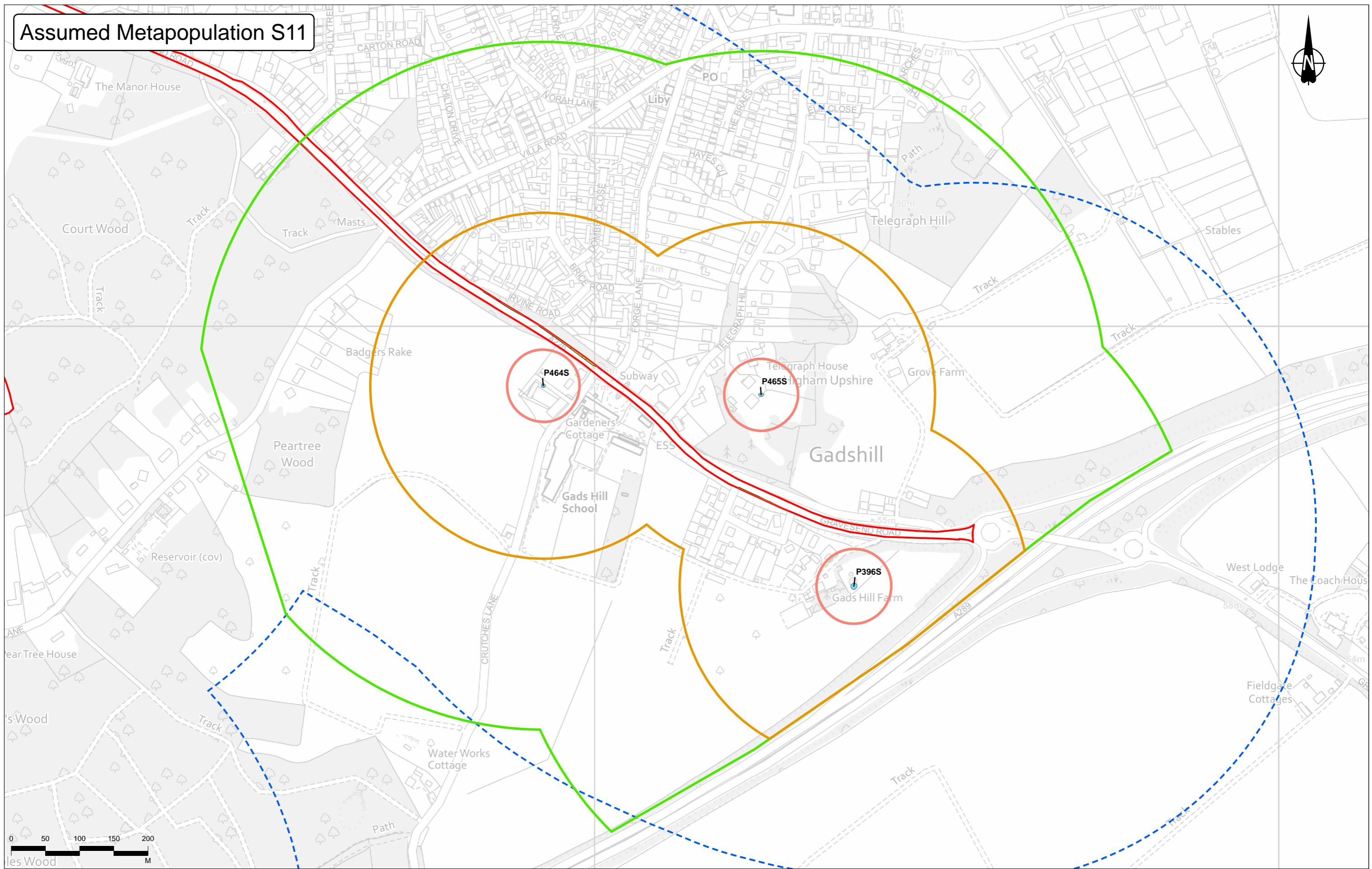
Metapopulation S10



Legend Order Limits: Red line Route alignment: Black line GCN survey area: Blue dashed line Ponds: Blue circle Pond buffers: Red line 50m pond buffer: Red line with dots		Phase 1 Habitat Broad-leaved semi-natural woodland: Green Dense/continuous scrub: Green with triangles Semi-improved neutral grassland: Orange Improved grassland: Yellow Poor semi-improved grassland: Yellow with dots Tall ruderal: Orange with dots		Standing water: Blue Running water: Blue with lines Arable: Yellow with triangles Buildings: Black Other habitat: White			Client national highways Project LOWER THAMES CROSSING	Status: DCO APPLICATION Application Document Number: TR010032/APP/6.3 Drawing Title: Figure D - Impact Map Metapopulation S10	Original Size: A3 Revision: P03 Scale: 1:8,000
Habitat Impact Category Permanent habitat loss (landscaping): Purple with triangles Permanent habitat loss (alignment): Blue Temporary habitat loss: Green with dots		Pond buffers 250m pond buffer: Orange line 500m pond buffer: Green line		Contains Ordnance Survey data. © Crown copyright and database rights 2022. Ordnance Survey 100030649.				Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026	

P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

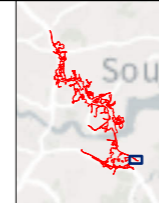
Assumed Metapopulation S11



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P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

Legend	Pond buffers	Phase 1 Habitat	Habitat Impact Category	Other
Order Limits	50m pond buffer	Permanent habitat loss (alignment)	Temporary habitat loss	Poor semi-improved grassland
Route alignment	250m pond buffer	Broad-leaved plantation woodland	Permanent habitat loss (landscaping)	Amenity grassland
GCN survey area	500m pond buffer	Improved grassland		Introduced shrub
Ponds				
Ponds				

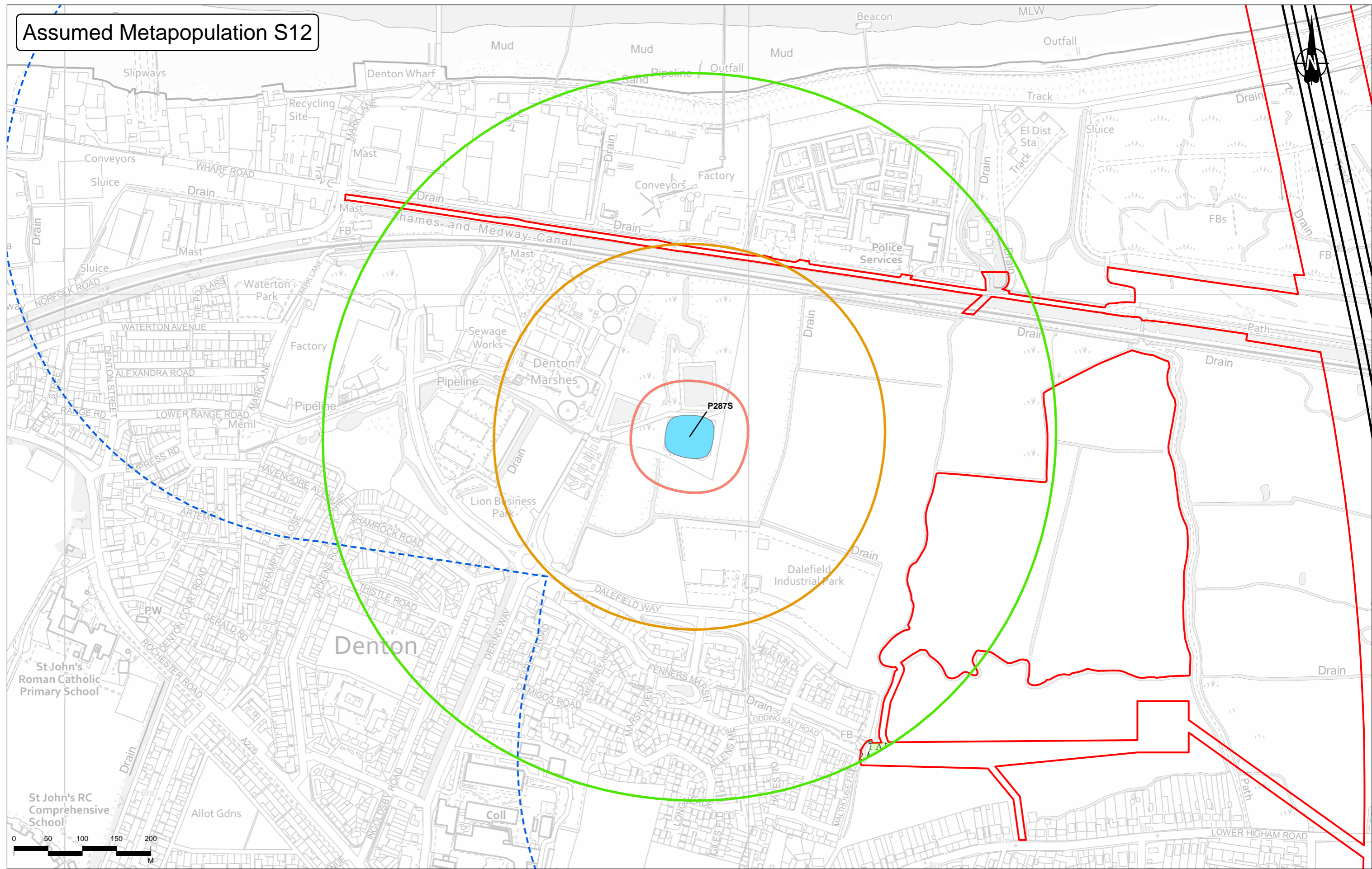


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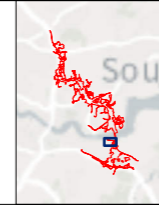
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Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S11				
	Page 11 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

Assumed Metapopulation S12



P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd

Legend		Phase 1 Habitat		Pond buffers	
	Order Limits		Broad-leaved semi-natural woodland		50m pond buffer
	Route alignment		Dense/continuous scrub		250m pond buffer
	GCN survey area		Improved grassland		500m pond buffer
	Ponds		Poor semi-improved grassland		Ponds
	Ponds		Tall ruderal		Ponds
	Ponds		Standing water		Ponds
	Ponds		Running water		Ponds
	Ponds		Arable		Ponds
	Ponds		Amenity grassland		Ponds
	Ponds		Introduced shrub		Ponds
	Ponds		Other habitat		Ponds
	Ponds				Ponds

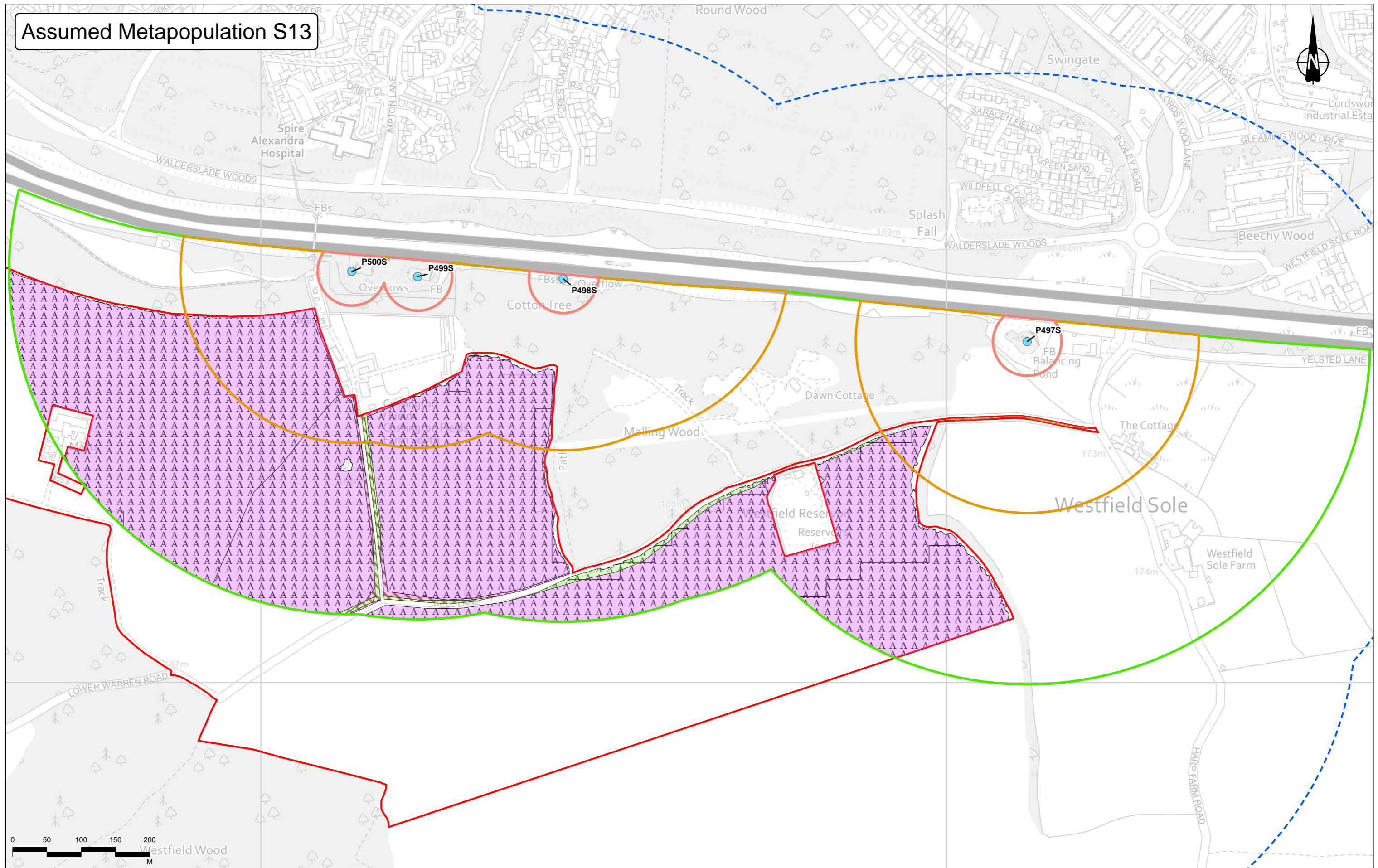


Client: **national highways**

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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S12				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				
Page 12 of 38					

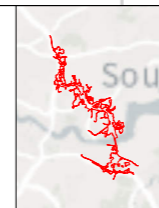
Assumed Metapopulation S13



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	Permanent habitat loss (landscaping)
Route alignment	Broad-leaved semi-natural woodland
GCN survey area	Temporary habitat loss
Ponds	Poor semi-improved grassland
Ponds	Tall ruderal
50m pond buffer	Permanent habitat loss (alignment)
250m pond buffer	Arable
500m pond buffer	Amenity grassland
Phase 1 Habitat	Buildings
Broad-leaved semi-natural woodland	Bare ground
Temporary habitat loss	
Poor semi-improved grassland	
Tall ruderal	

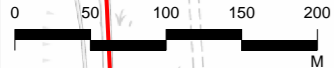
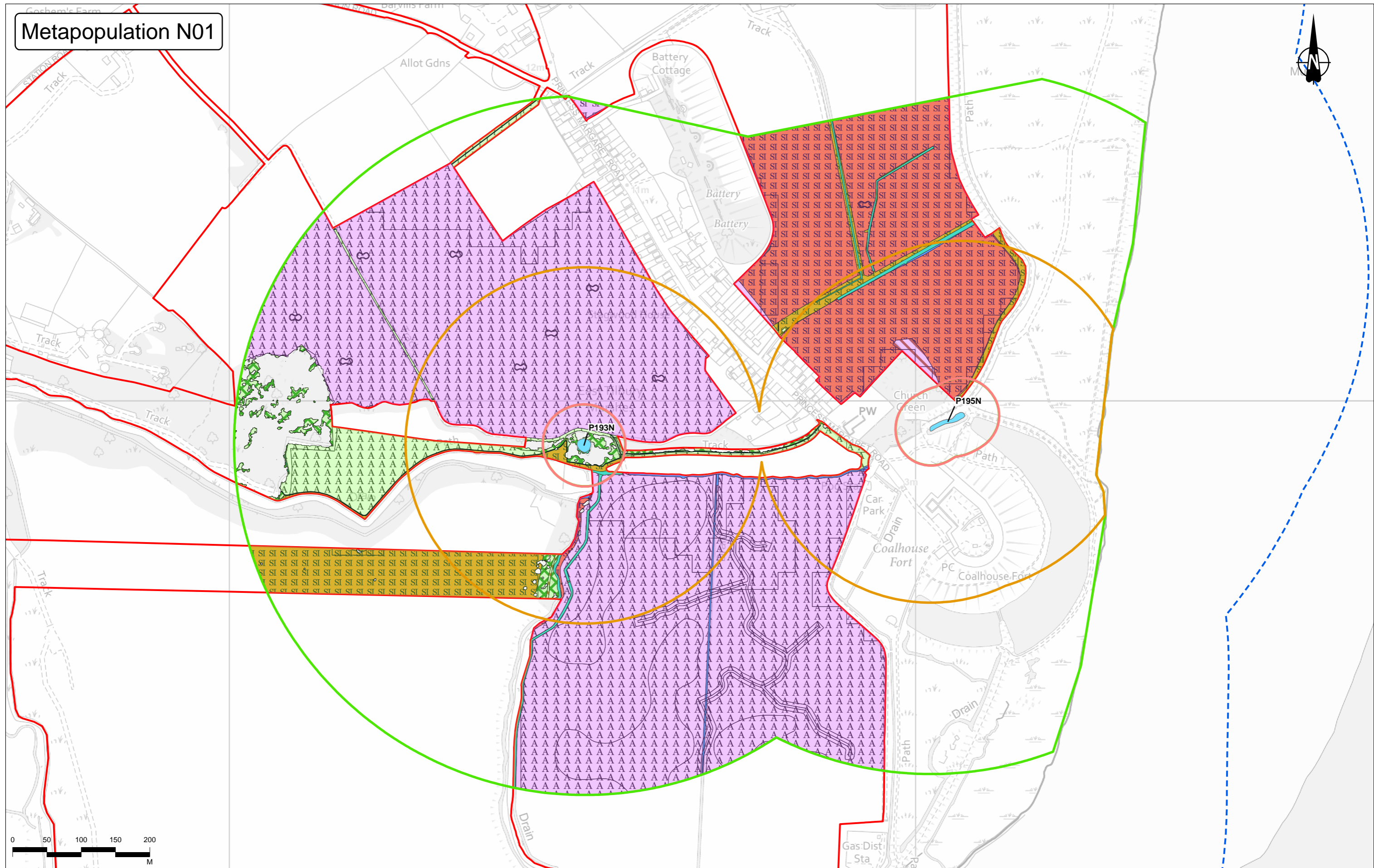


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S13 Page 13 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

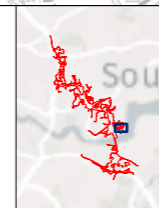
Metapopulation N01



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Phase 1 Habitat		Habitat Impact Category		Pond buffers	
	Order Limits		Broad-leaved semi-natural woodland		Permanent habitat loss (landscaping)		250m pond buffer
	Route alignment		Dense/continuous scrub		Permanent habitat loss (alignment)		500m pond buffer
	GCN survey area		Improved grassland		Temporary habitat loss		50m pond buffer
	Ponds		Poor semi-improved grassland				
	Ponds		Tall ruderal				
			Standing water				
			Arable				
			Amenity grassland				
			Buildings				
			Bare ground				
			Other habitat				

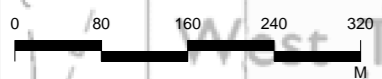
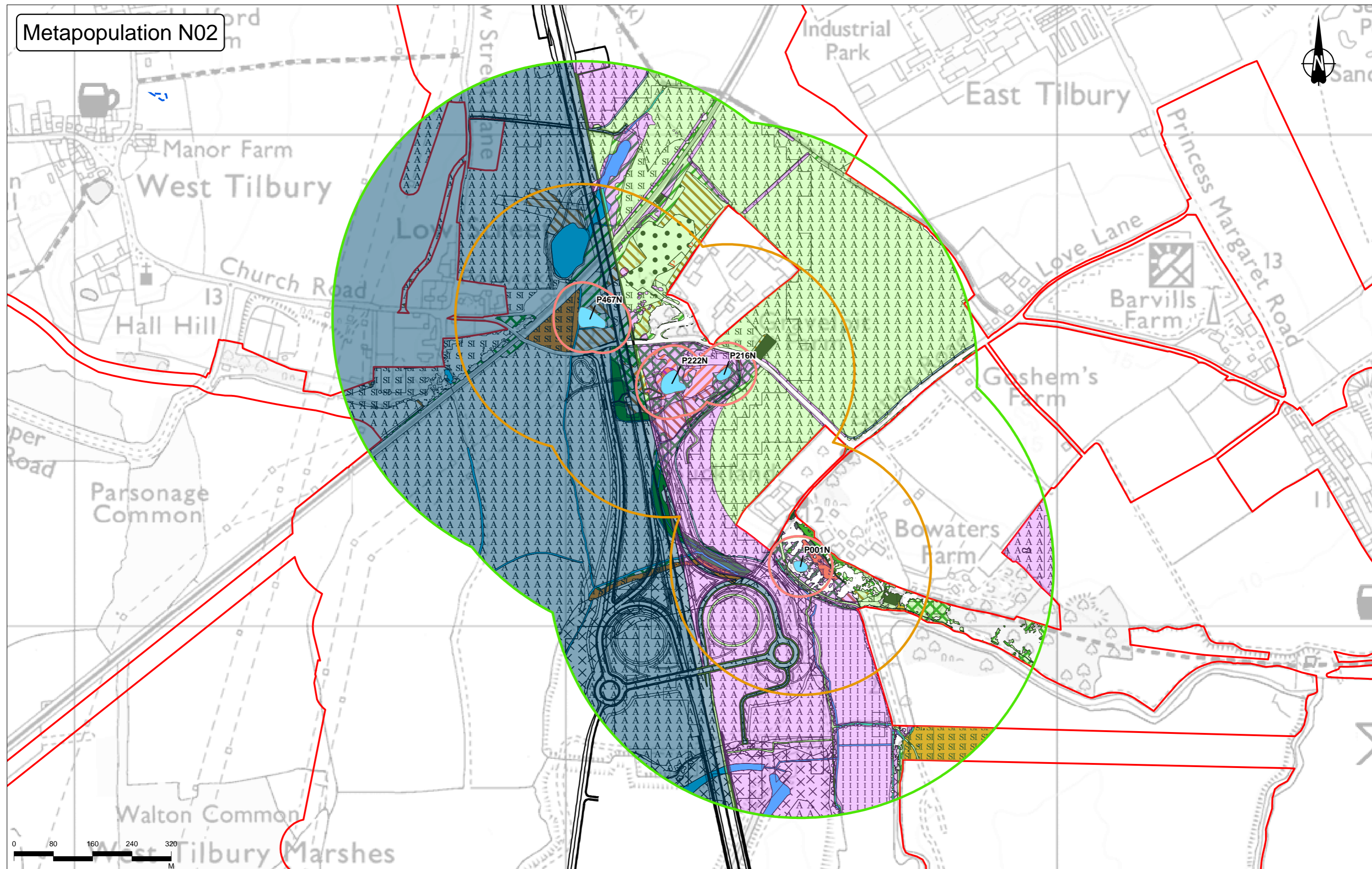


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Project: LOWER THAMES CROSSING

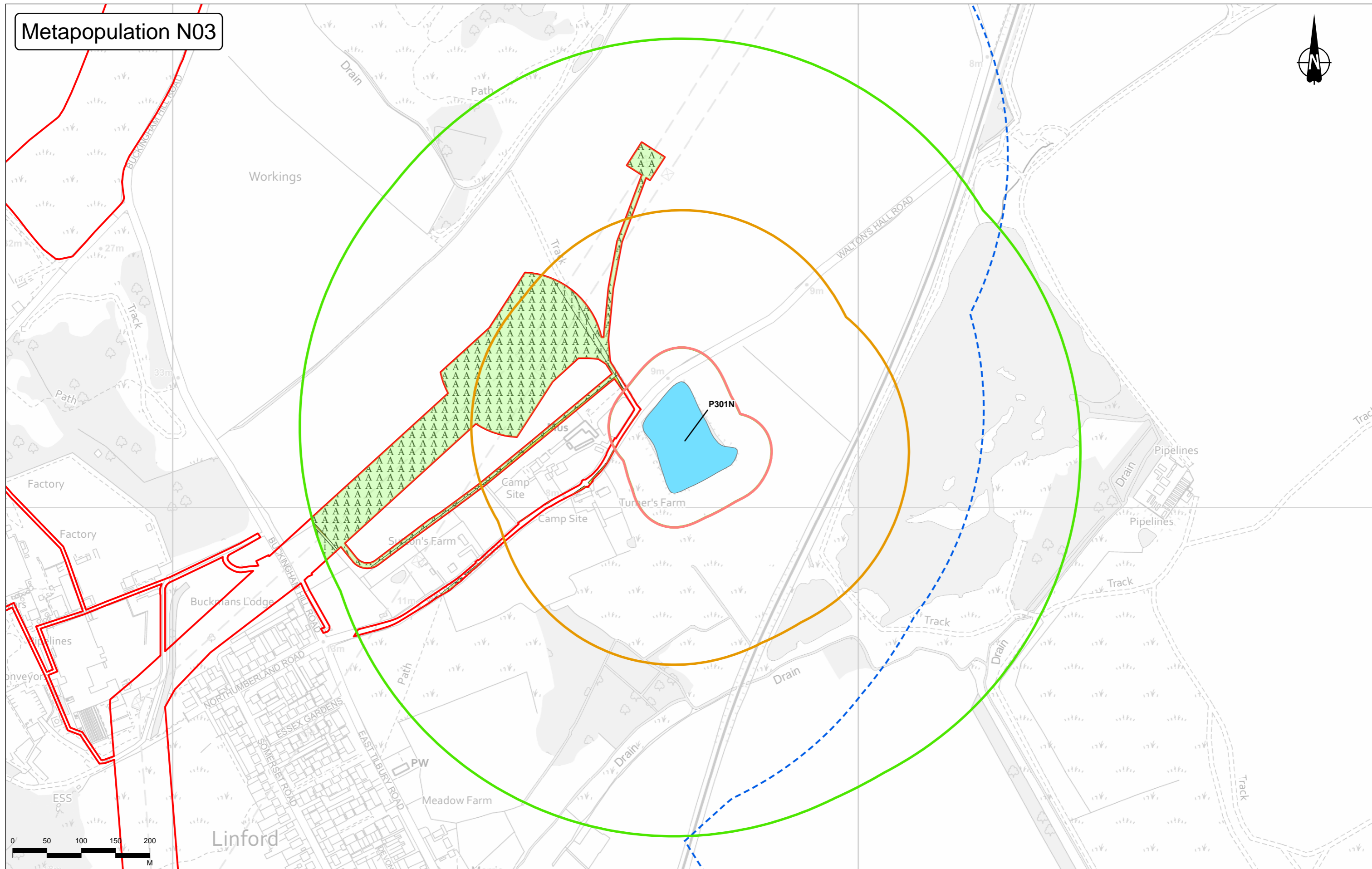
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Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N01				
	Page 14 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

Metapopulation N02



Legend Order Limits: Red outline Route alignment: Blue line GCN survey area: Blue dashed line Ponds: Blue circle Pond buffers: Blue outline 50m pond buffer: Red outline		Habitat Impact Category Permanent habitat loss (landscaping): Purple hatched Permanent habitat loss (alignment): Blue hatched Temporary habitat loss: Green hatched 250m pond buffer: Orange outline 500m pond buffer: Green outline		Phase 1 Habitat Broad-leaved semi-natural woodland: Green hatched Broad-leaved plantation woodland: Green hatched with diagonal lines Dense/continuous scrub: Green hatched with diagonal lines Unimproved acid grassland: Orange hatched Semi-improved neutral grassland: Purple hatched Improved grassland: Purple hatched with diagonal lines		Marsh/marshy grassland: Blue hatched Poor semi-improved grassland: Blue hatched with diagonal lines Tall ruderal: Blue hatched with diagonal lines Standing water: Blue solid Running water: Blue solid with diagonal lines Spoil: Blue solid with diagonal lines Arable: Blue solid with diagonal lines		Amenity grassland: Yellow hatched Ephemeral/short perennial: Yellow hatched with diagonal lines Buildings: Black solid Bare ground: White solid Other habitat: White solid		Client: national highways Project: LOWER THAMES CROSSING	Status: DCO APPLICATION Application Document Number: TR010032/APP/6.3 Drawing Title: Figure D - Impact Map Metapopulation N02 Page 15 of 38 Drawing Number: HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026	Original Size: A3 Revision: P03 Scale: 1:7,000
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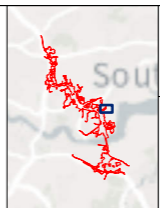
Metapopulation N03



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Habitat Impact Category
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Broad-leaved plantation woodland
Temporary habitat loss	Dense/continuous scrub
Phase 1 Habitat	Semi-improved neutral grassland
Improved grassland	Standing water
Poor semi-improved grassland	Arable
Tall ruderal	Amenity grassland



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N03 Page 16 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

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