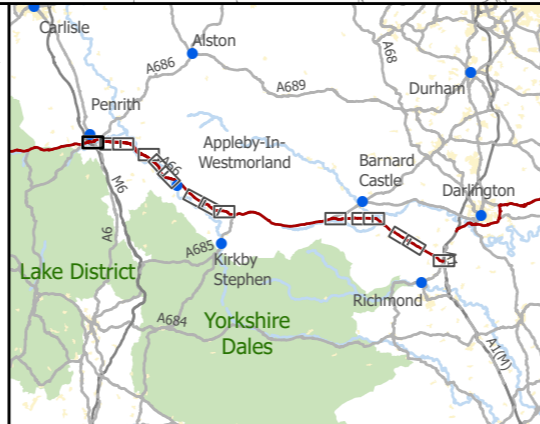


<ul style="list-style-type: none"> — Route Alignment ▭ Order Limits — Named Watercourses (within 250m of Order Limits) ● Fish Survey - eDNA ● Fish Survey - Electric Fishing ● River Condition (MoRPh) Survey ⊙ Upstream Summary ⊙ Downstream Summary ⊙ Obstructions - Natural ⊙ Obstructions - Culvert/Ford ⊙ Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> ⊙ Obstructions - Weir ● Exposed Substrate/Bars - Point ● Macrophyte - Point Feature — Large Woody Debris (Natural) — Bank Erosion — Modified Channel (non-obstacle) or Banks — Invasive Species - Linear Feature ▭ Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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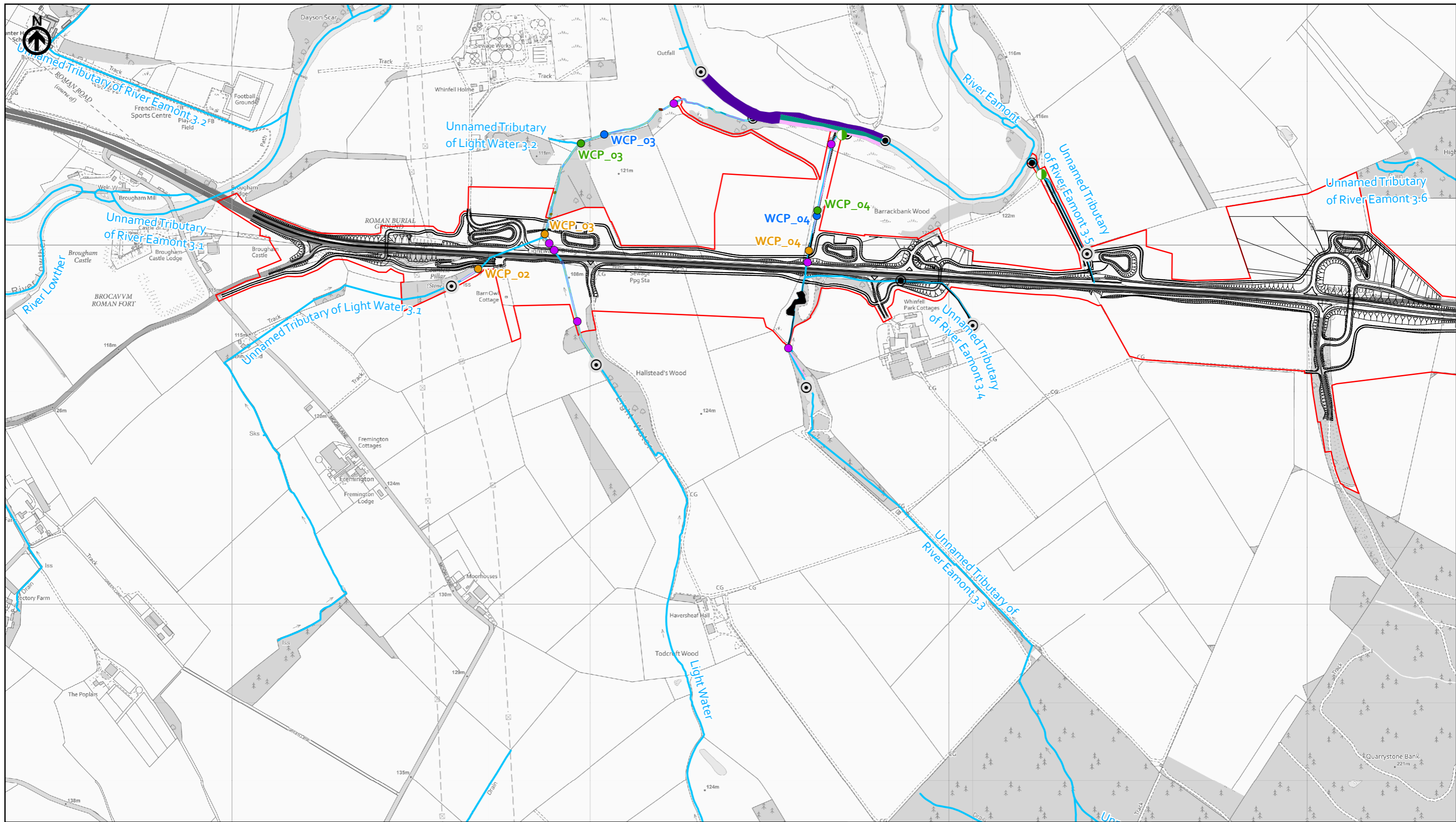
national highways 3 Piccadilly Place Manchester M1 3BN

P02	First Issue	ZKOV	LHAN	THOU	AWAR	KWHA
		12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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Scale @ A3: 1:10,000 | Project Ref No HE565627 | Stage: Stage 3
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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 0102, M6 Junction 40 to Kemplay Bank Sheet 1 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00 Location	MP - LB	003313	
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL		Revision P02



<ul style="list-style-type: none"> Route Alignment Order Limits Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Exposed Substrate/Bars - Point Macrophyte - Point Feature Large Woody Debris (Natural) Bank Erosion Modified Channel (non-obstacle) or Banks Invasive Species - Linear Feature Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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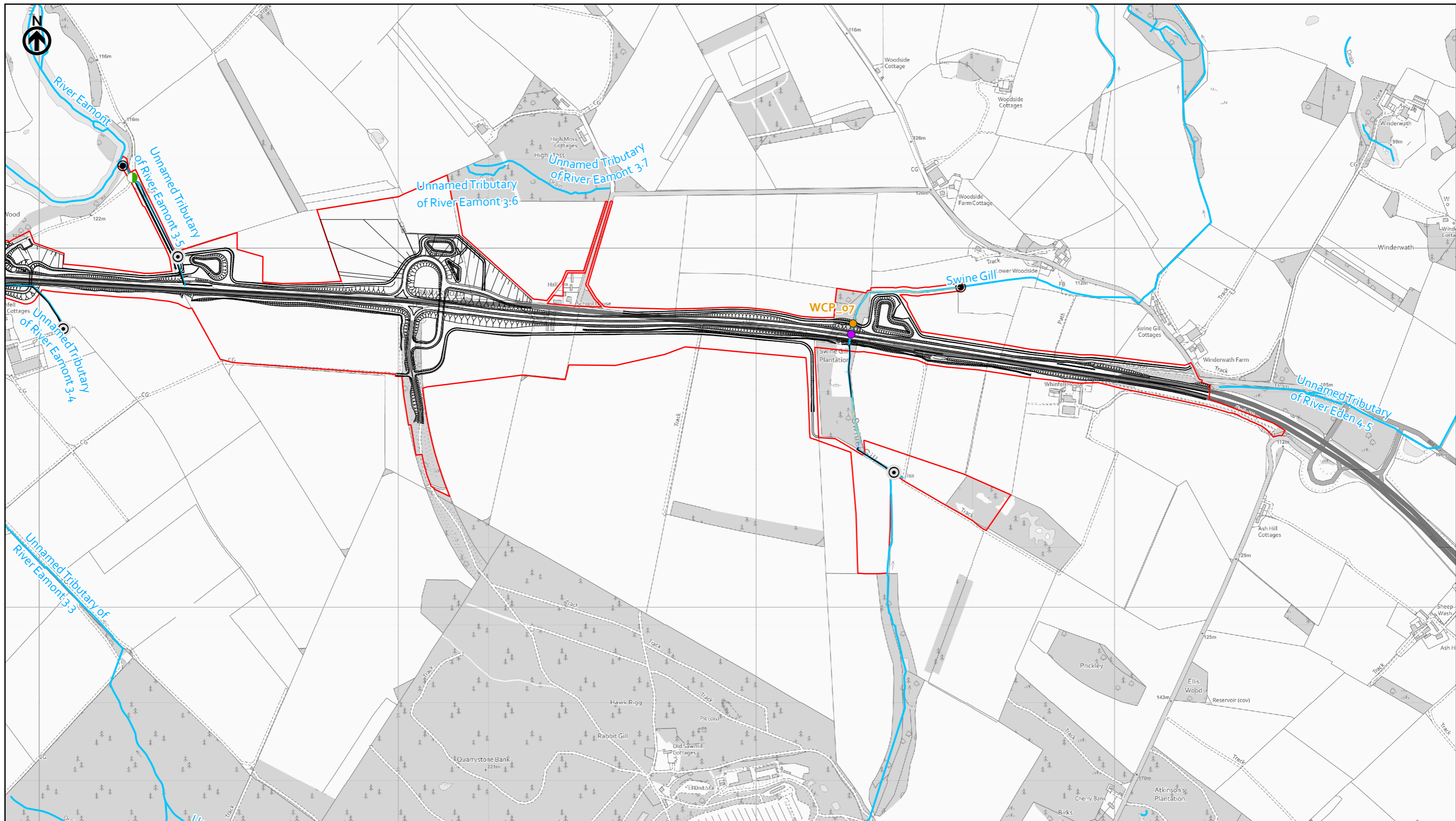
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	ZKOV	LHAN	THOU	AWAR	KWHA
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Revision	Created	Checked	Reviewed	Approved	Authorised

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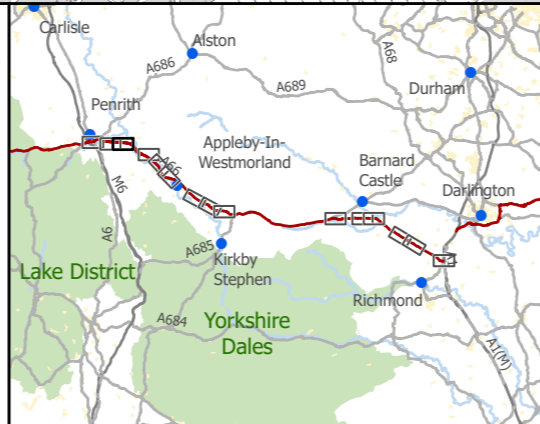
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Scale @ A3: 1:10,000 | Project Ref No HE565627 | Stage: Stage 3
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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 03, Temple Sowerby Sheet 2 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
Location		Type	Role
S00		MP	LB
S4		003314	
Suitability	Suitability Description		Revision
S4	FIT FOR STAGE APPROVAL		P02



— Route Alignment	⊠ Obstructions - Weir	Salmonid Fish Habitat - Area
▭ Order Limits	● Exposed Substrate/Bars - Point	■ Chute/torrent/bedrock
— Named Watercourses (within 250m of Order Limits)	● Macrophyte - Point Feature	■ Fry
● Fish Survey - eDNA	— Large Woody Debris (Natural)	■ Glide - shallow
● Fish Survey - Electric Fishing	— Bank Erosion	■ Glide - deep
● River Condition (MoRPh) Survey	— Modified Channel (non-obstacle) or Banks	■ Lamprey (juvenile)
⊙ Upstream Summary	— Invasive Species - Linear Feature	■ Mixed juvenile
⊙ Downstream Summary	▨ Exposed Substrate/Bars - Area	■ Parr
⊙ Obstructions - Natural		■ Pool - shallow
⊙ Obstructions - Culvert/Ford		■ Pool - deep
⊙ Obstructions - Sluice/Dam/Flap Gate		■ Run
		■ Spawning
		■ No fish habitat



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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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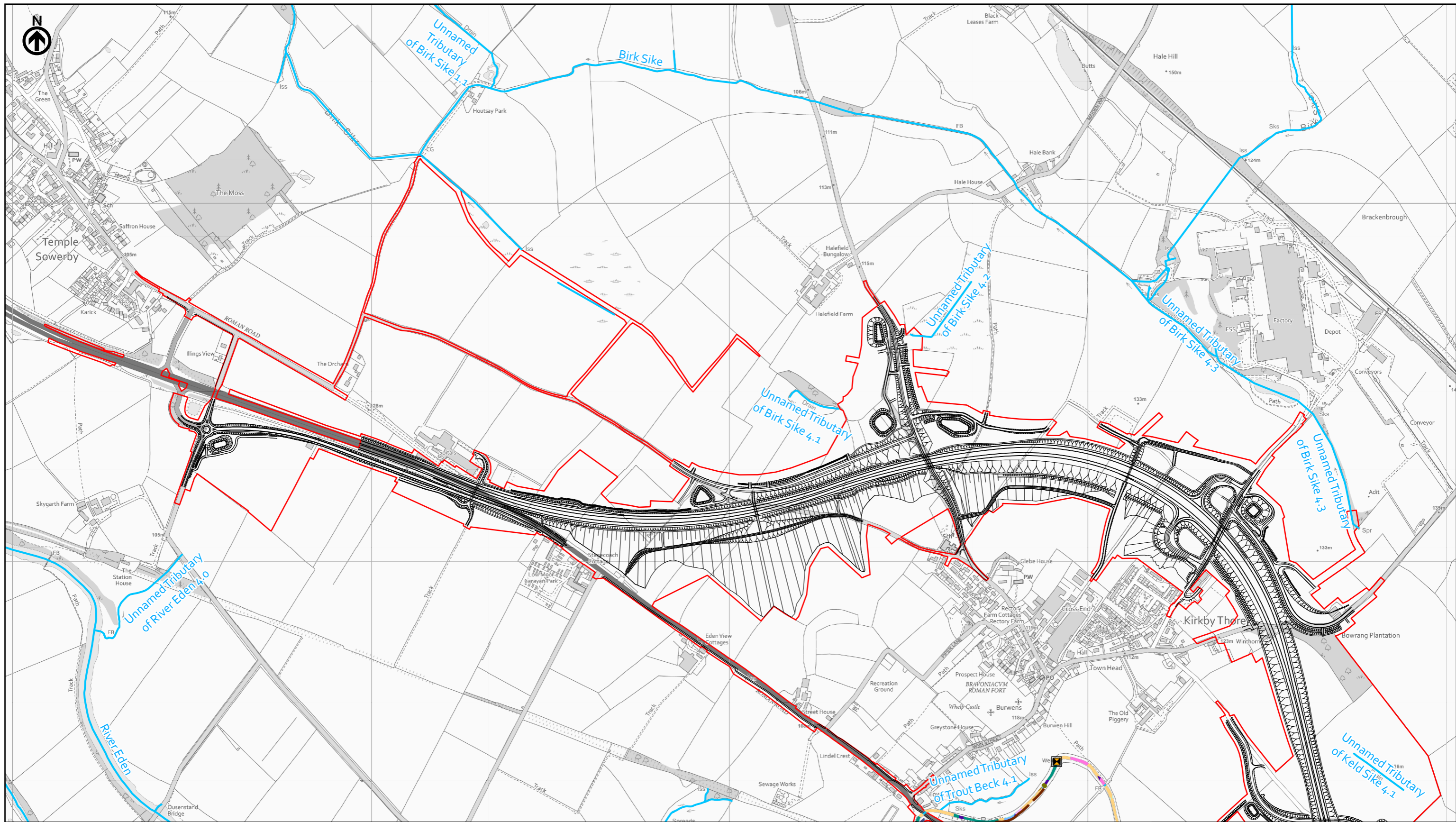
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Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 6.17
Fish Habitat Assessment, Fish Survey and
River Condition Survey (MoRPh)
Scheme: 03, Temple Sowerby
Sheet 3 of 15

Map Number	Project	Originator	Volume
HE565627	S00	AMY	EBD
Location	Type	Role	Number
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Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> Route Alignment Order Limits Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Exposed Substrate/Bars - Point Macrophyte - Point Feature Large Woody Debris (Natural) Bank Erosion Modified Channel (non-obstacle) or Banks Invasive Species - Linear Feature Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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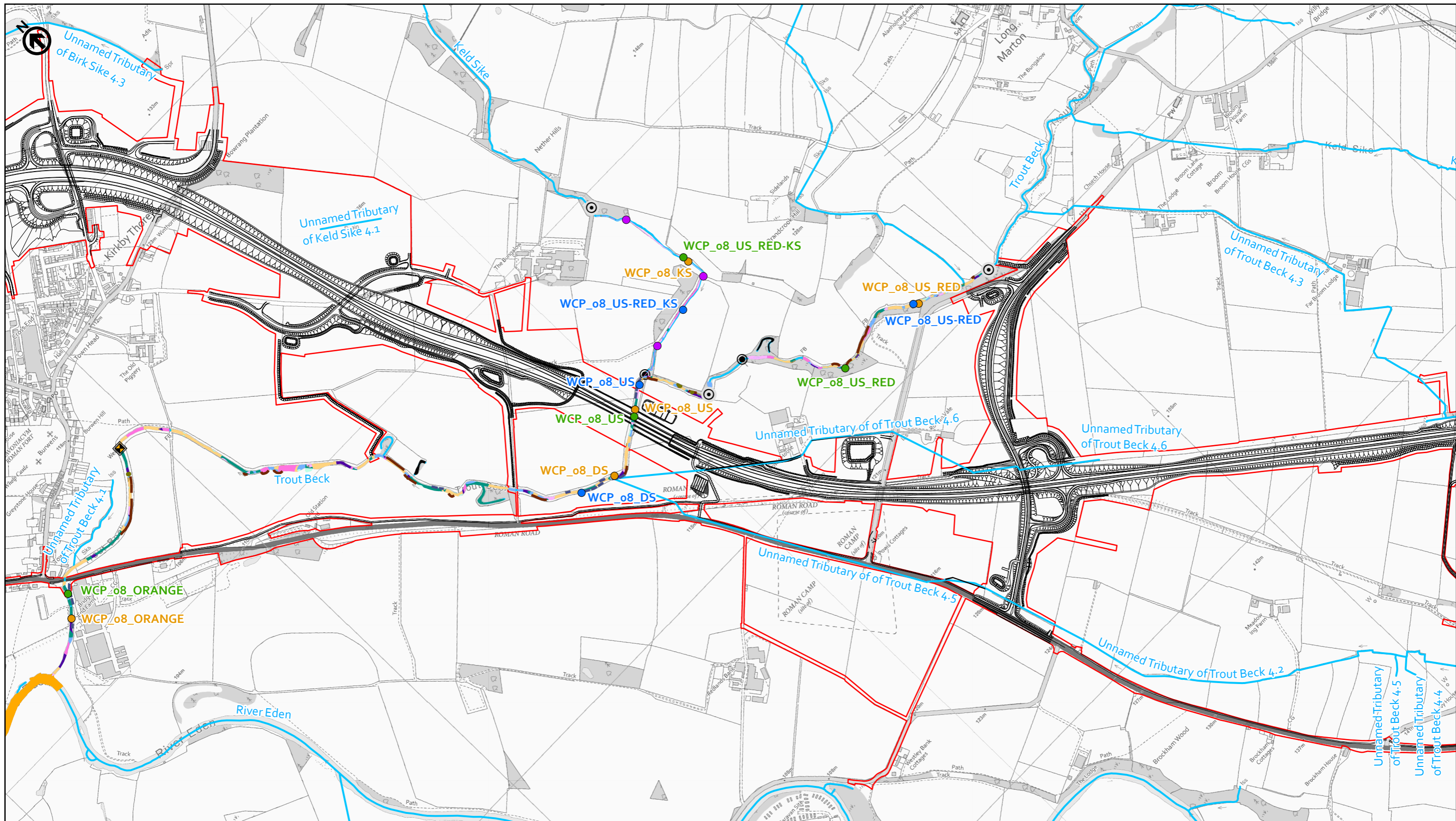
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Project Name
A66 Northern Trans-Pennine Project

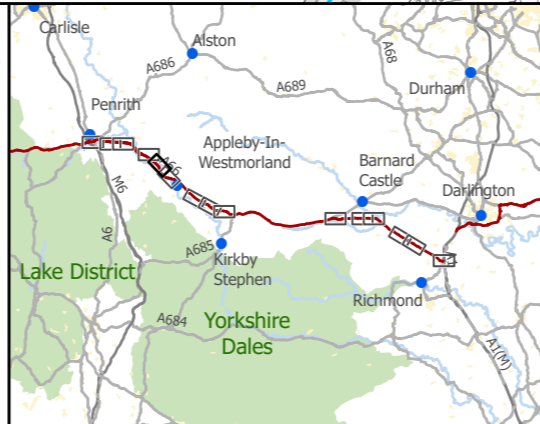
Map Title
Figure 6.17
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)
Scheme: 0405, Temple Sowerby to Appleby
Sheet 4 of 15

Map Number	Project	Originator	Volume
HE565627	S00	AMY	EBD
Location	Type	Role	Number
	MP	LB	003316

Suitability	Suitability Description	Revision
S4	FIT FOR STAGE APPROVAL	P02



<ul style="list-style-type: none"> Route Alignment Order Limits Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Exposed Substrate/Bars - Point Macrophyte - Point Feature Large Woody Debris (Natural) Bank Erosion Modified Channel (non-obstacle) or Banks Invasive Species - Linear Feature Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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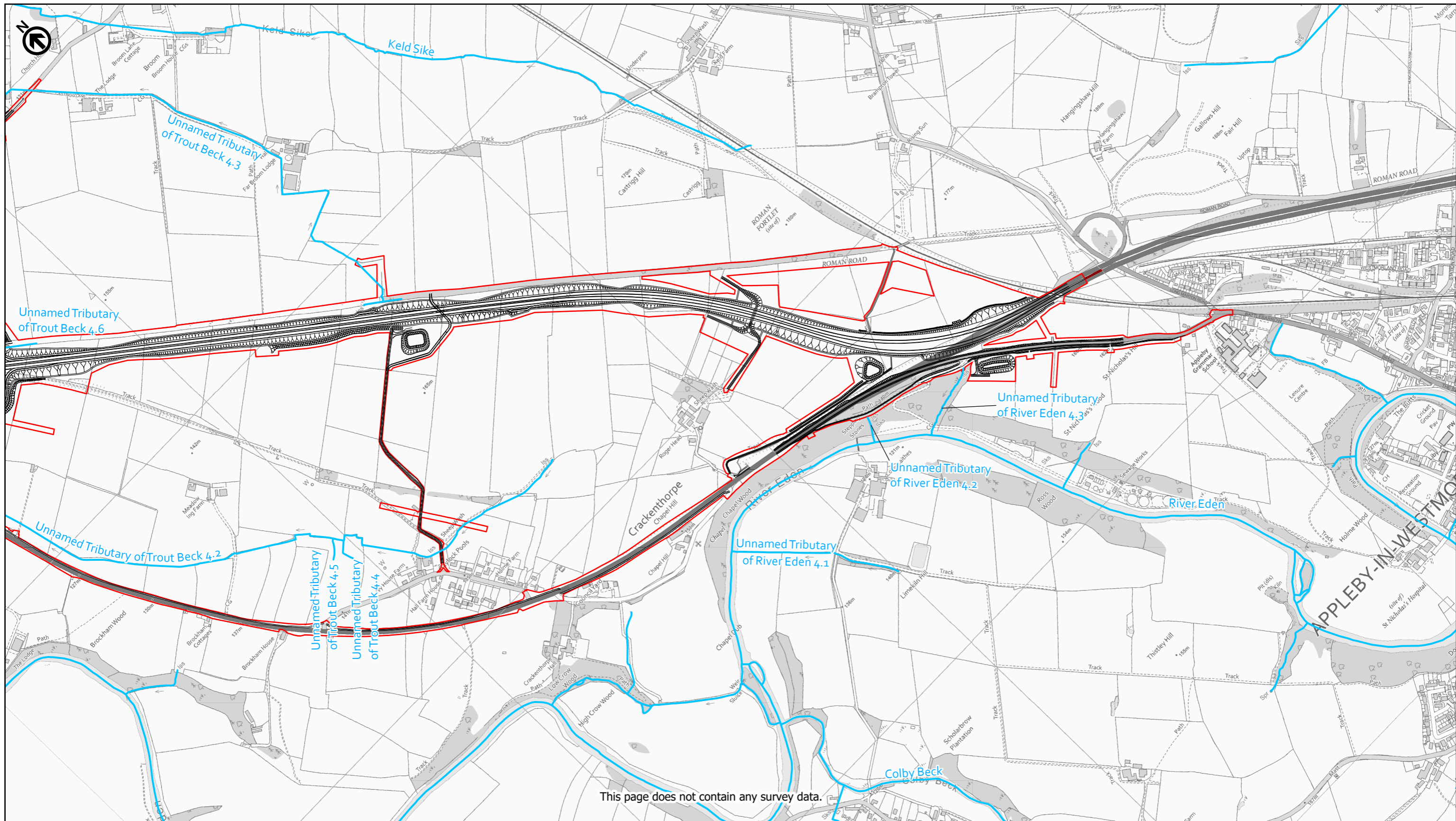
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	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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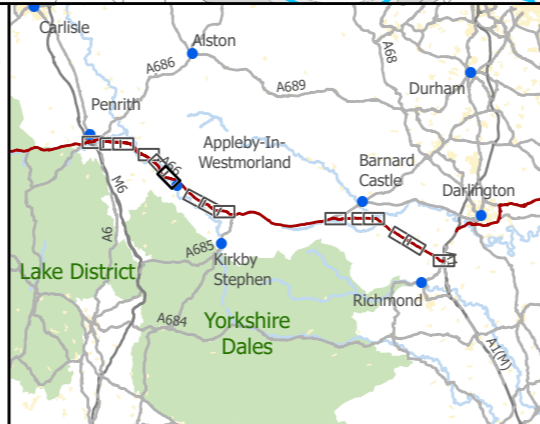
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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 0405, Temple Sowerby to Appleby Sheet 5 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
S00 Location	MP - LB	003317	
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL	Type	Revision P02



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P02	First Issue	ZKOV	LHAN	THOU	AWAR	KWHA
		12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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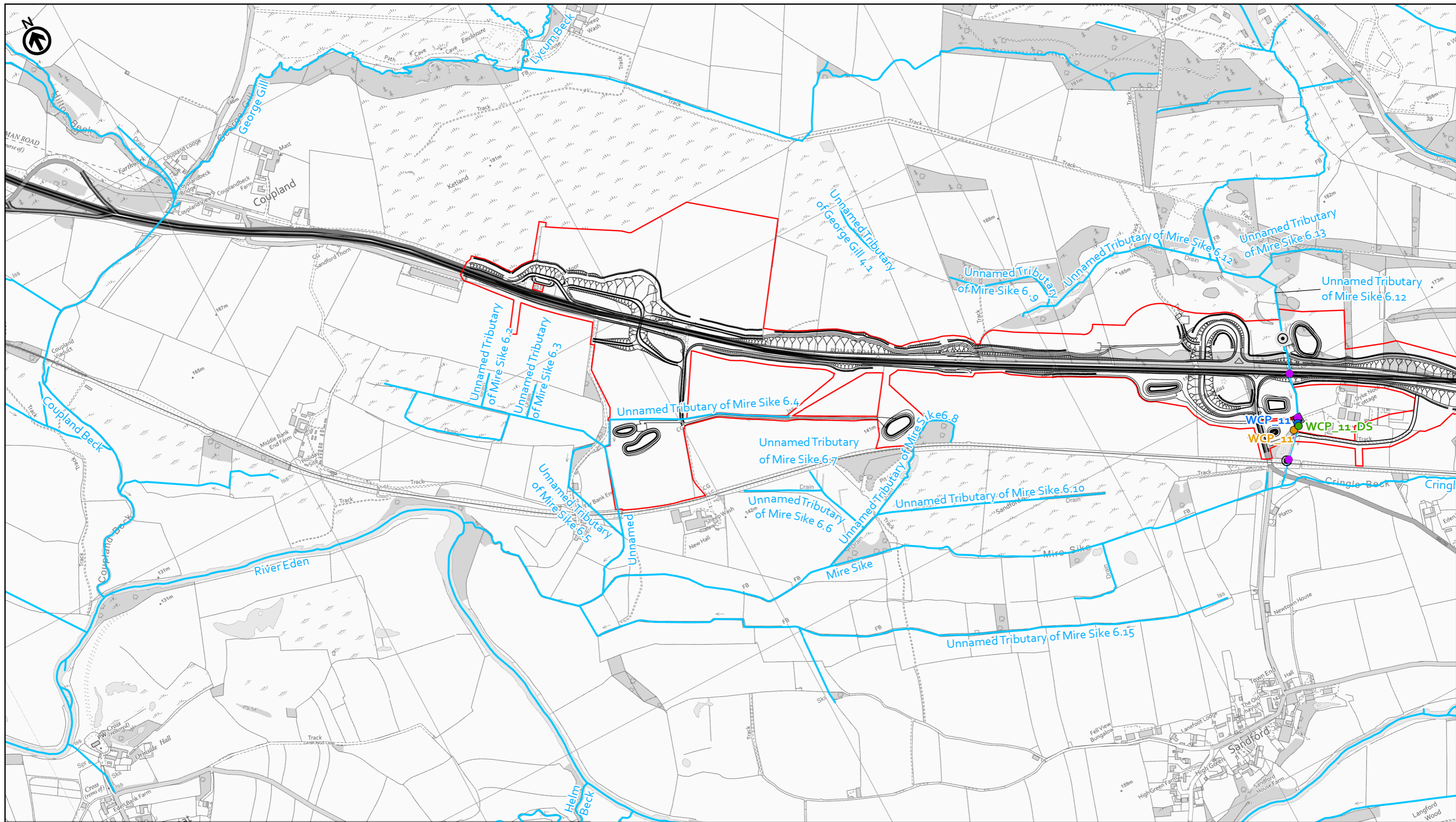
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Project Name
A66 Northern Trans-Pennine Project

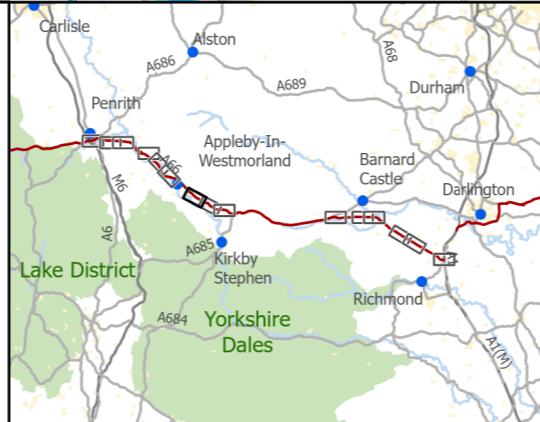
Map Title
Figure 6.17
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)
Scheme: 0405, Temple Sowerby to Appleyby
Sheet 6 of 15

Map Number	Project	Originator	Volume
HE565627	-	AMY	EBD
S00	-	MP - LB	- 003318
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability S4 | Suitability Description FIT FOR STAGE APPROVAL | Revision P02



<ul style="list-style-type: none"> Route Alignment Order Limits Existing A66 Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Macrophyte - Point Feature Exposed Substrate/Bars - Point Invasive Species - Linear Feature Modified Channel (non-obstacle) or Banks Bank Erosion Large Woody Debris (Natural) Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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P03	Second Issue: Revised Order Limits				
	KBIG	CESL	AMAR	AWAR	KWHA
Revision	Created	Checked	Reviewed	Approved	Authorised
	19/04/23	19/04/23	19/04/23	16/05/23	16/05/23

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Project Name
A66 Northern Trans-Pennine Project

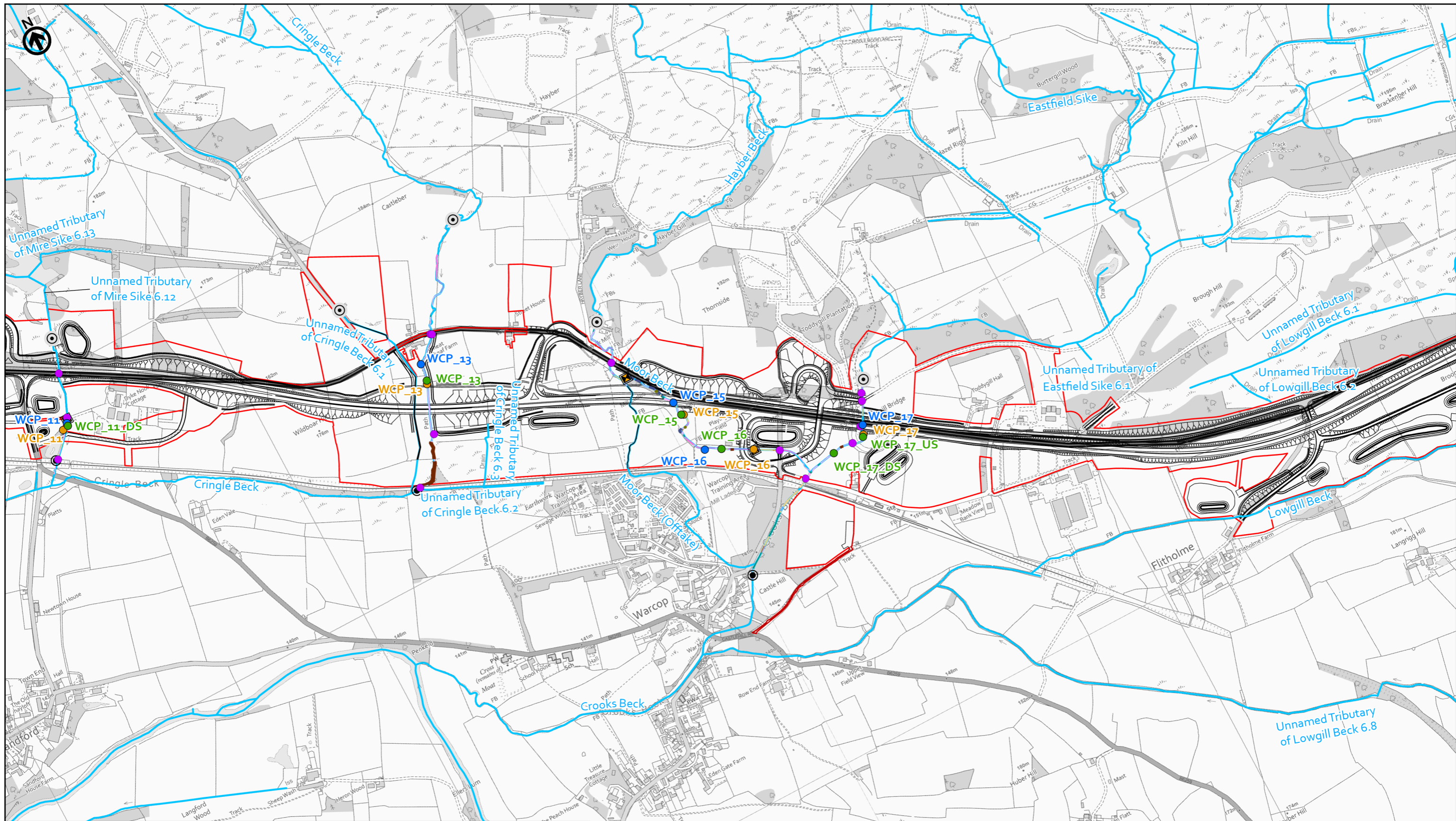
Map Title
Figure 6.17

Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)
Scheme: 06, Appleby to Brough

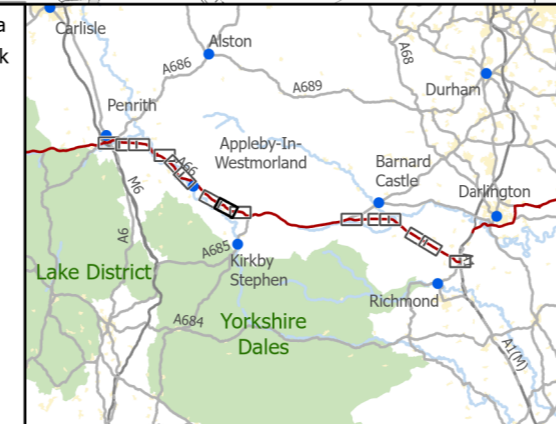
Sheet 7 of 15

Map Number	Project	Originator	Volume
HE565627	S00	AMY	EBD
Suitability	Location	Type	Role
S4	FIT FOR STAGE APPROVAL	MP	LB

Revision
P03



<ul style="list-style-type: none"> Route Alignment Order Limits Existing A66 Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Macrophyte - Point Feature Exposed Substrate/Bars - Point Invasive Species - Linear Feature Modified Channel (non-obstacle) or Banks Bank Erosion Large Woody Debris (Natural) Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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P03	Second Issue: Revised Order Limits				
	KBIG	CESL	AMAR	AWAR	KWHA
	19/04/23	19/04/23	19/04/23	16/05/23	16/05/23
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name
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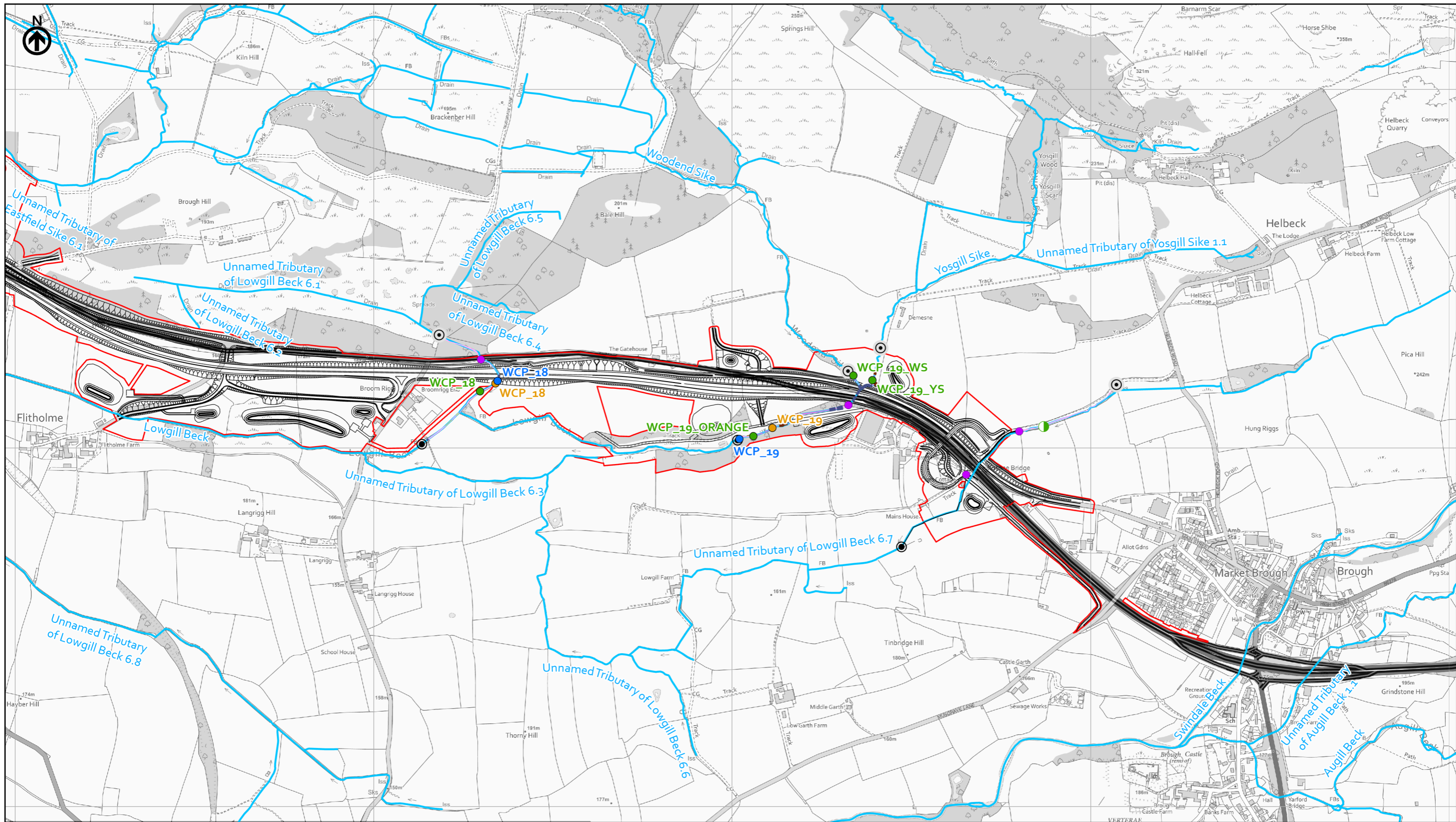
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Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)

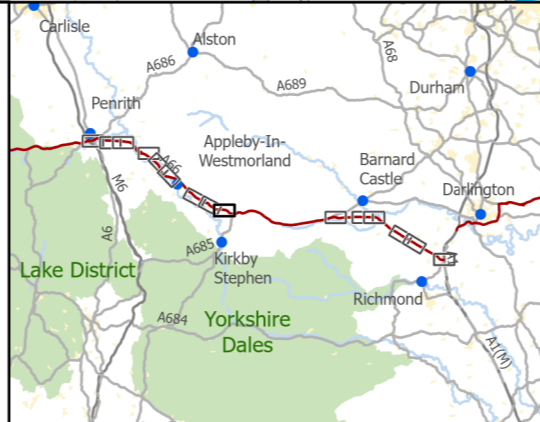
Scheme: 06, Appleby to Brough

Sheet 8 of 15

Map Number	Project	Originator	Volume
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S00	-	MP - LB	003320
Location	-	Type	Role
S4	FIT FOR STAGE APPROVAL		Number
			P03



<ul style="list-style-type: none"> Route Alignment Order Limits Existing A66 Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Macrophyte - Point Feature Exposed Substrate/Bars - Point Invasive Species - Linear Feature Modified Channel (non-obstacle) or Banks Bank Erosion Large Woody Debris (Natural) Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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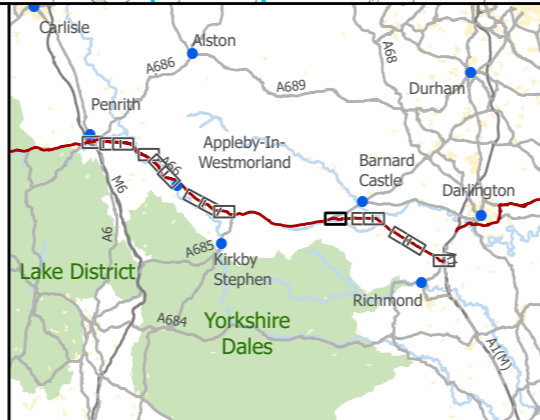
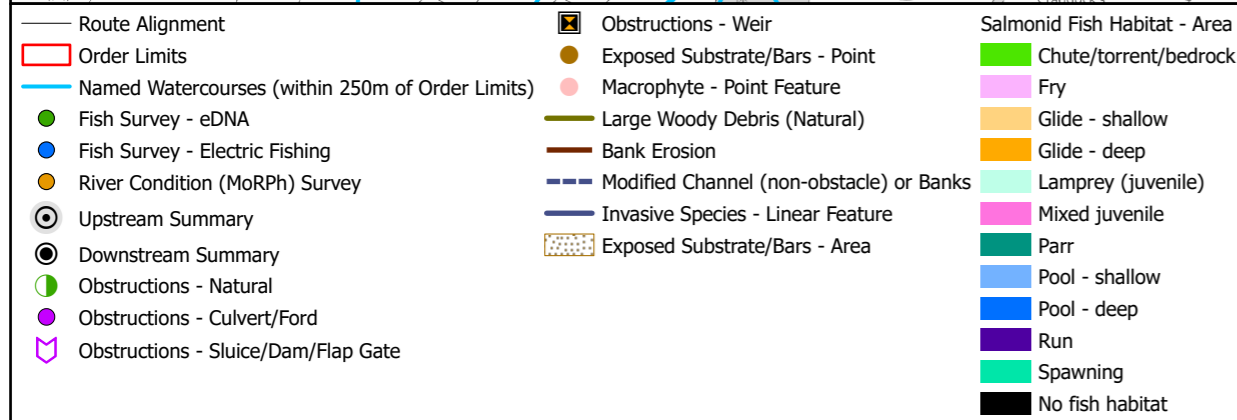
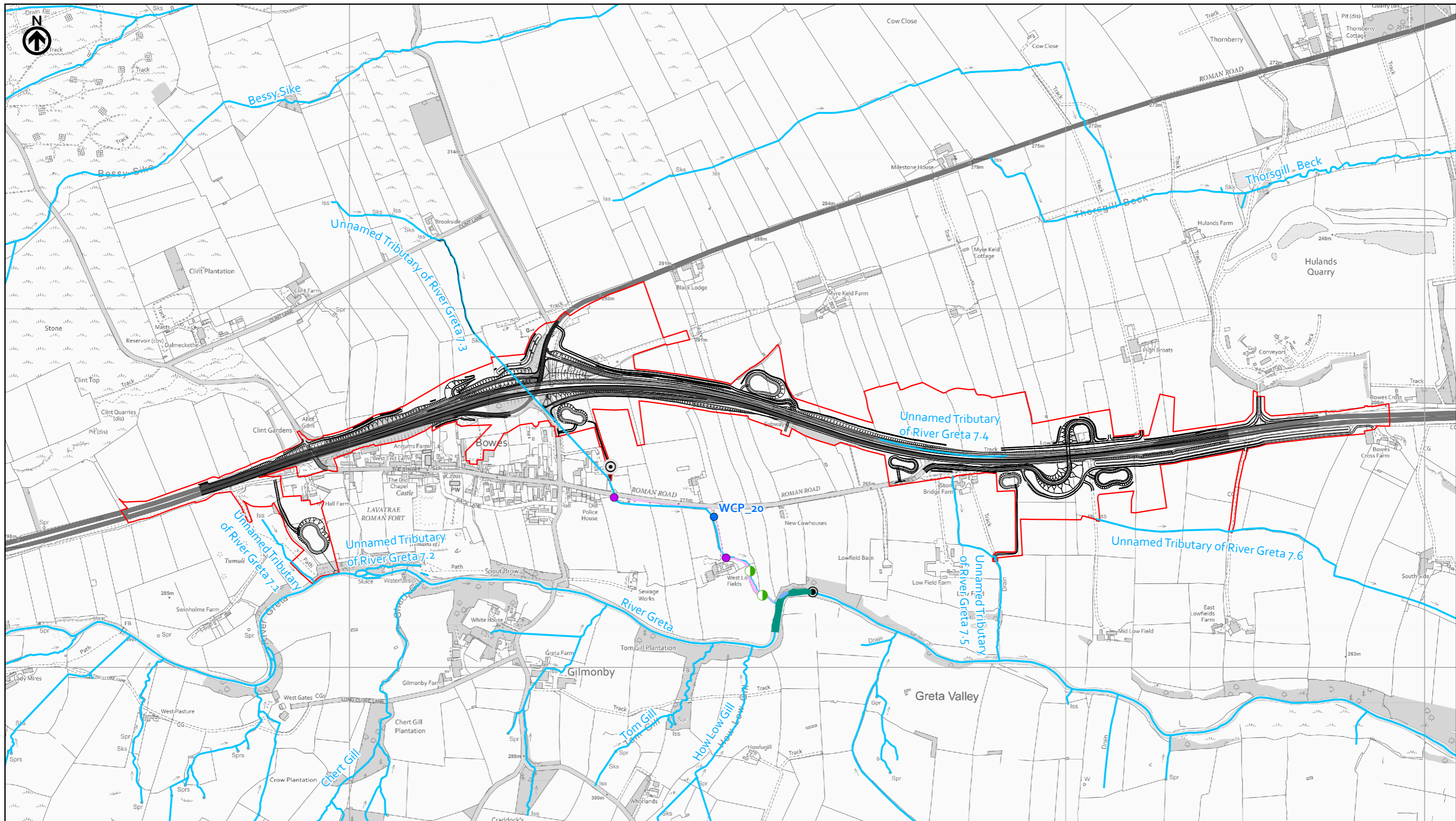
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	19/04/23	19/04/23	19/04/23	16/05/23	16/05/23
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17			
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)			
Scheme: 06, Appleby to Brough			
Sheet 9 of 15			
Map Number	Project	Originator	Volume
HE565627	-	AMY	EBD
S00	-	MP - LB	- 003321
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P03
Suitability	Suitability Description	Revision	
S4	FIT FOR STAGE APPROVAL	P03	



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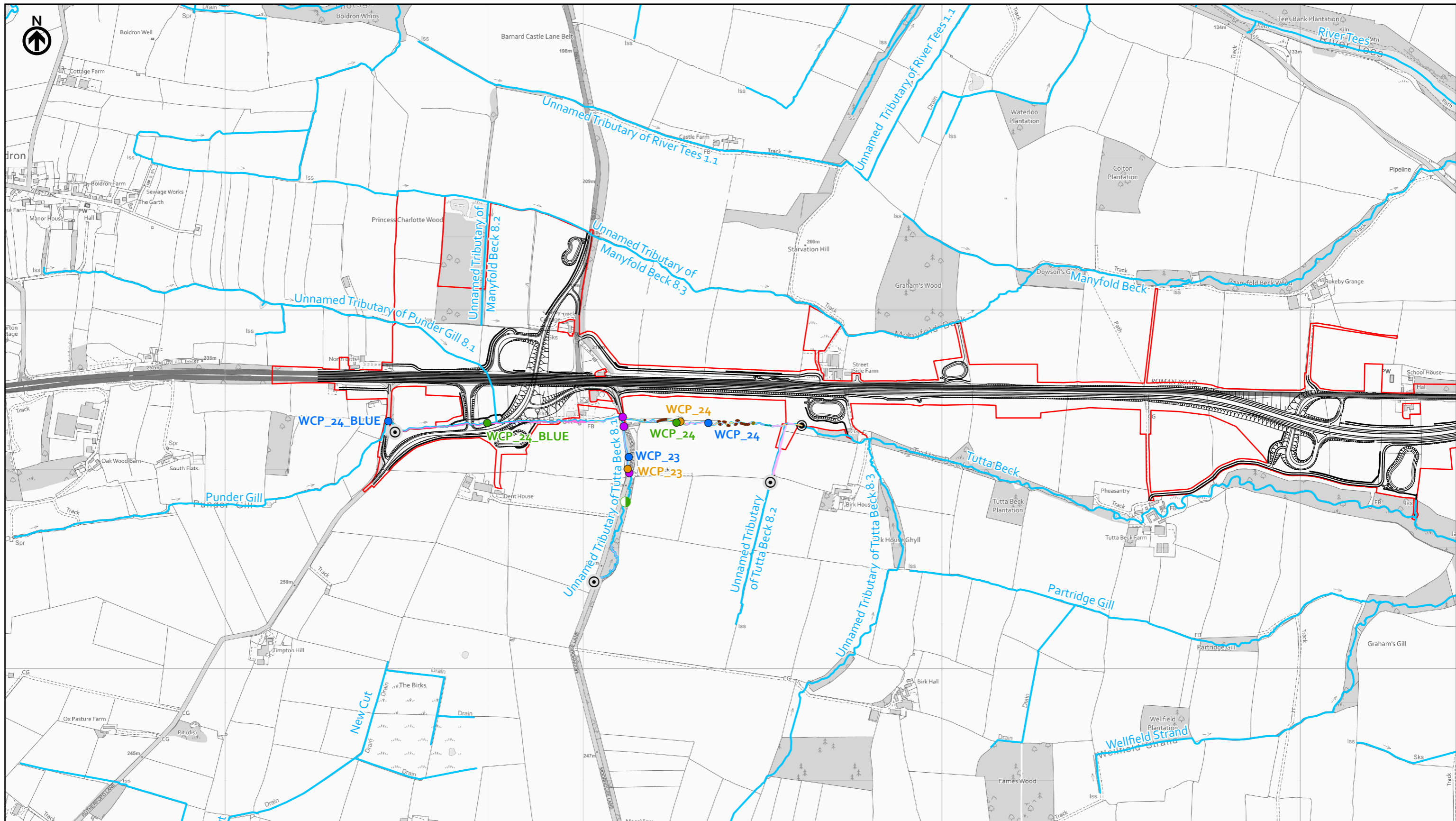
3 Piccadilly Place
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P02	First Issue	ZKOV	LHAN	THOU	AWAR	KWHA
		12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised	

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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17			
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)			
Scheme: 07, Bowes Bypass			
Sheet 10 of 15			
Map Number	Project	Originator	Volume
HE565627	S00	AMY	EBD
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02



<ul style="list-style-type: none"> — Route Alignment ▭ Order Limits — Named Watercourses (within 250m of Order Limits) ● Fish Survey - eDNA ● Fish Survey - Electric Fishing ● River Condition (MoRPh) Survey ⊙ Upstream Summary ⊙ Downstream Summary ⊙ Obstructions - Natural ⊙ Obstructions - Culvert/Ford ⊙ Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> ▭ Obstructions - Weir ● Exposed Substrate/Bars - Point ● Macrophyte - Point Feature — Large Woody Debris (Natural) — Bank Erosion — Modified Channel (non-obstacle) or Banks — Invasive Species - Linear Feature ▭ Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area ▭ Chute/torrent/bedrock ▭ Fry ▭ Glide - shallow ▭ Glide - deep ▭ Lamprey (juvenile) ▭ Mixed juvenile ▭ Parr ▭ Pool - shallow ▭ Pool - deep ▭ Run ▭ Spawning ▭ No fish habitat
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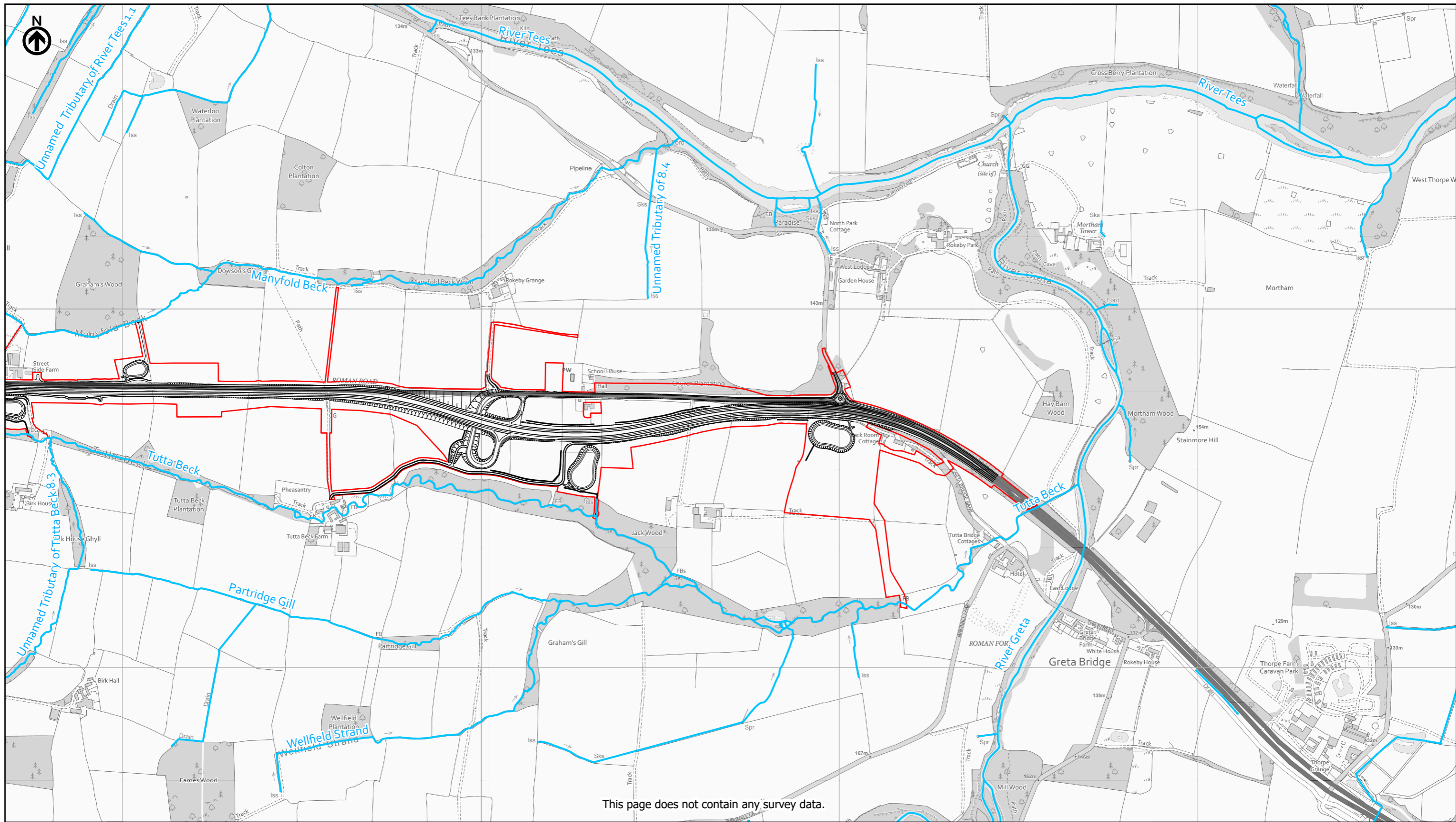
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	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 08, Cross Lanes to Rokeby Sheet 11 of 15			
Map Number Project HE565627	Originator AMY	Volume EBD	
Location S00		Type MP	Role LB
Number 003323			
Suitability S4	Suitability Description FIT FOR STAGE APPROVAL		Revision P02



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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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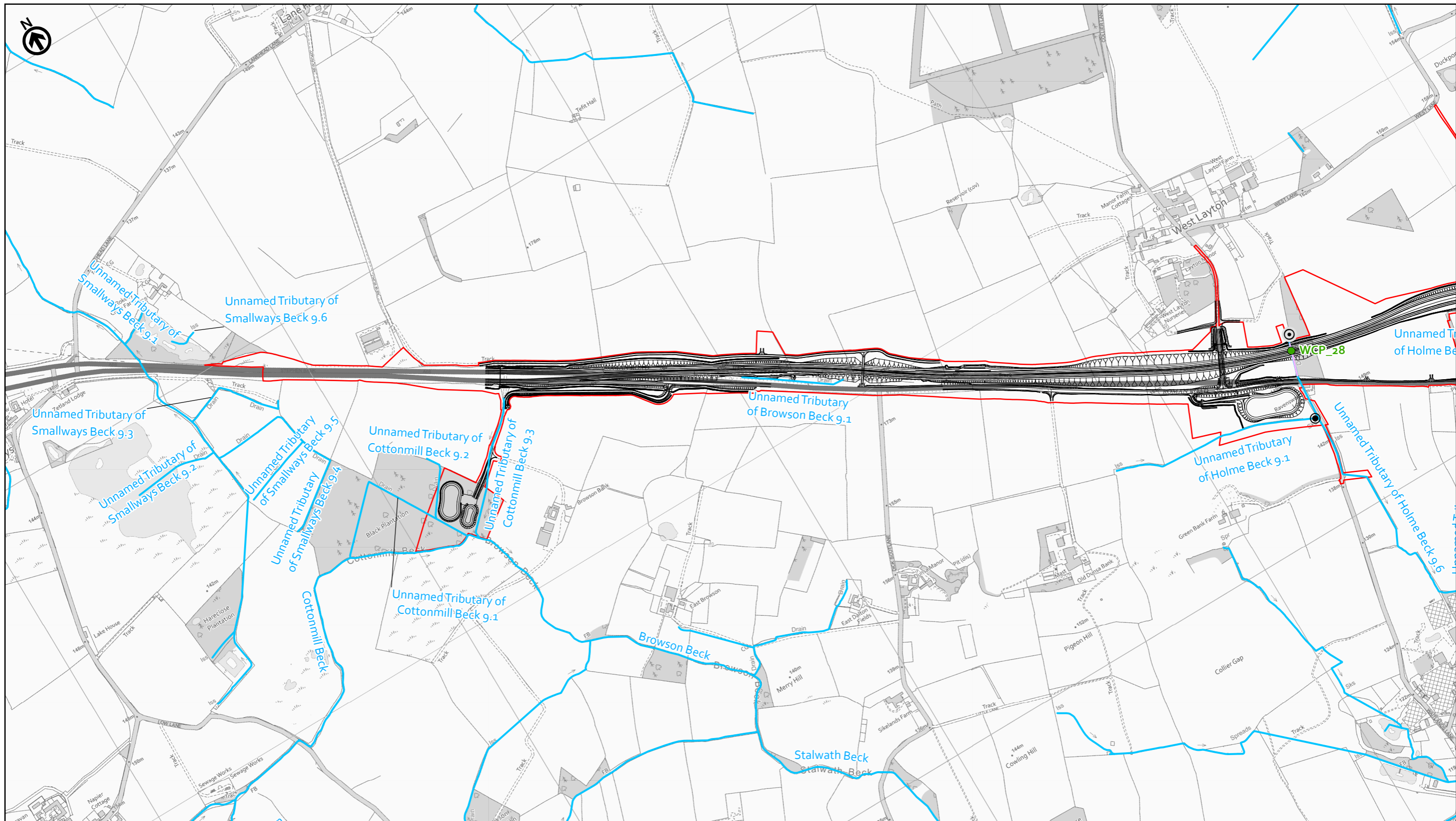
Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 6.17
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)
Scheme: 08, Cross Lanes to Rokeby
Sheet 12 of 15

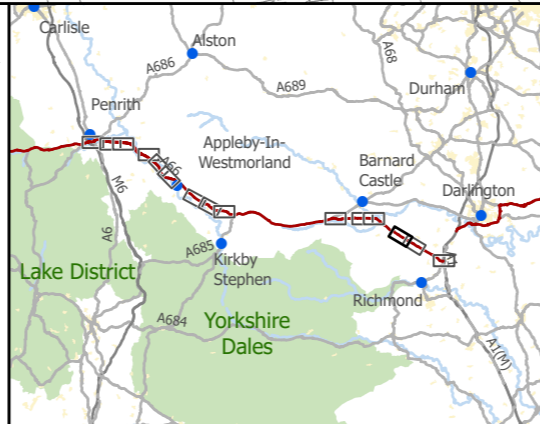
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HE565627	S00	AMY	EBD
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL	MP - LB	003324

Suitability Description
FIT FOR STAGE APPROVAL

Revision
P02



<ul style="list-style-type: none"> Route Alignment Order Limits Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Exposed Substrate/Bars - Point Macrophyte - Point Feature Large Woody Debris (Natural) Bank Erosion Modified Channel (non-obstacle) or Banks Invasive Species - Linear Feature Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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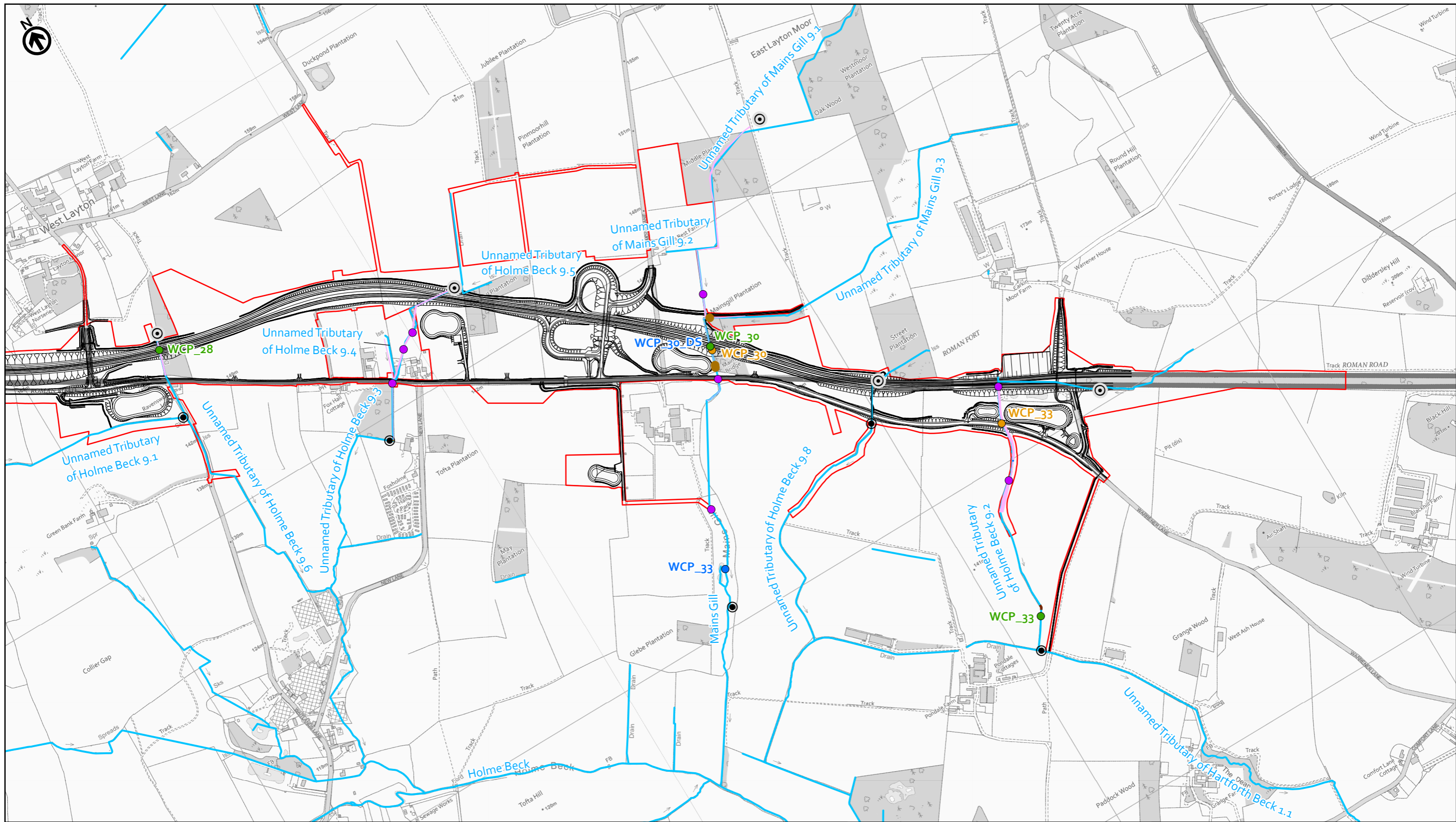
3 Piccadilly Place
Manchester
M1 3BN

P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres
0 0.25 0.5

Scale @ A3: 1:10,000 | Project Ref No HE565627 | Stage: Stage 3
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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17 Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh) Scheme: 09, Stephen Bank to Carkin Moor Sheet 13 of 15			
Map Number Project	Originator	Volume	
HE565627	AMY	EBD	
Location		Type	Role
S00		MP	LB
S4		003325	
Suitability	Suitability Description		Revision
S4	FIT FOR STAGE APPROVAL		P02



— Route Alignment	⊠ Obstructions - Weir	Salmonid Fish Habitat - Area
▭ Order Limits	● Exposed Substrate/Bars - Point	■ Chute/torrent/bedrock
— Named Watercourses (within 250m of Order Limits)	● Macrophyte - Point Feature	■ Fry
● Fish Survey - eDNA	— Large Woody Debris (Natural)	■ Glide - shallow
● Fish Survey - Electric Fishing	— Bank Erosion	■ Glide - deep
● River Condition (MoRPh) Survey	— Modified Channel (non-obstacle) or Banks	■ Lamprey (juvenile)
⊙ Upstream Summary	— Invasive Species - Linear Feature	■ Mixed juvenile
⊙ Downstream Summary	▨ Exposed Substrate/Bars - Area	■ Parr
● Obstructions - Natural		■ Pool - shallow
● Obstructions - Culvert/Ford		■ Pool - deep
● Obstructions - Sluice/Dam/Flap Gate		■ Run
		■ Spawning
		■ No fish habitat



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P02	First Issue				
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	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres
0 0.25 0.5

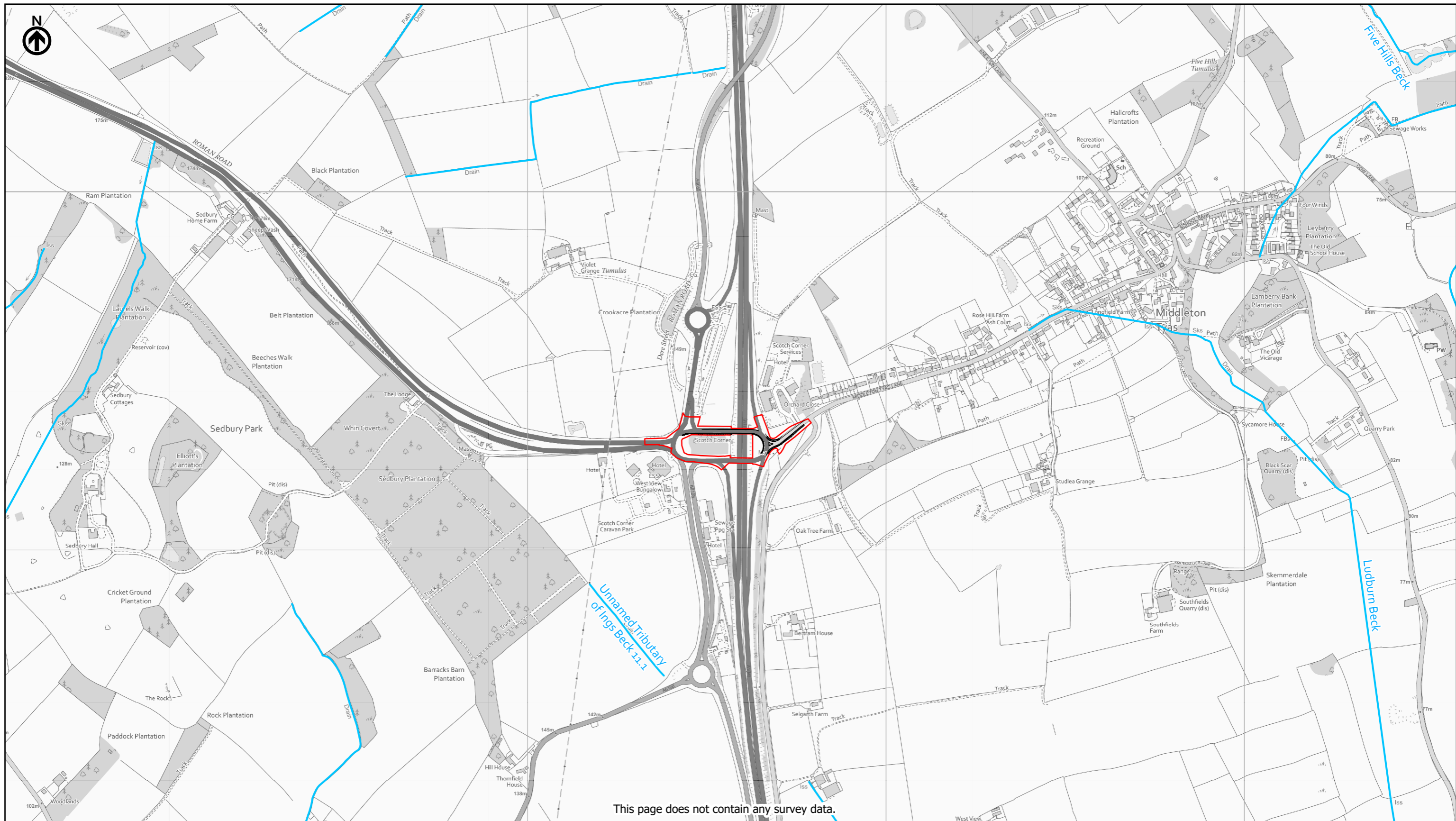
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Project Name
A66 Northern Trans-Pennine Project

Map Title
Figure 6.17
Fish Habitat Assessment, Fish Survey and
River Condition Survey (MoRPh)
Scheme: 09, Stephen Bank to Carkin Moor
Sheet 14 of 15

Map Number	Project	Originator	Volume
HE565627	-	AMY	- EBD
S00	-	MP - LB	- 003326
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL		P02

Suitability S4 | Suitability Description FIT FOR STAGE APPROVAL | Revision P02



This page does not contain any survey data.

<ul style="list-style-type: none"> Route Alignment Order Limits Named Watercourses (within 250m of Order Limits) Fish Survey - eDNA Fish Survey - Electric Fishing River Condition (MoRPh) Survey Upstream Summary Downstream Summary Obstructions - Natural Obstructions - Culvert/Ford Obstructions - Sluice/Dam/Flap Gate 	<ul style="list-style-type: none"> Obstructions - Weir Exposed Substrate/Bars - Point Macrophyte - Point Feature Large Woody Debris (Natural) Bank Erosion Modified Channel (non-obstacle) or Banks Invasive Species - Linear Feature Exposed Substrate/Bars - Area 	<ul style="list-style-type: none"> Salmonid Fish Habitat - Area Chute/torrent/bedrock Fry Glide - shallow Glide - deep Lamprey (juvenile) Mixed juvenile Parr Pool - shallow Pool - deep Run Spawning No fish habitat
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P02	First Issue				
	ZKOV	LHAN	THOU	AWAR	KWHA
	12/04/22	19/04/22	20/04/22	21/04/22	21/04/22
Revision	Created	Checked	Reviewed	Approved	Authorised

Kilometres

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Project Name A66 Northern Trans-Pennine Project			
Map Title Figure 6.17			
Fish Habitat Assessment, Fish Survey and River Condition Survey (MoRPh)			
Scheme: 11, A1(M) Junction 53 Scotch Corner			
Sheet 15 of 15			
Map Number	Project	Originator	Volume
HE565627	S00	AMY	EBD
Location	Type	Role	Number
S4	FIT FOR STAGE APPROVAL	MP - LB	003327
Suitability	Suitability Description	Revision	
S4	FIT FOR STAGE APPROVAL	P02	