

# A66 Northern Trans-Pennine Project TR010062

# 3.2 Environmental Statement Chapter 16 Summary <u>Revision 24</u>

APFP Regulations 5(2)(a)

Planning Act 2008

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

Volume 3

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Infrastructure Planning

Planning Act 2008

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

A66 Northern Trans-Pennine Project Development Consent Order 202x

## 3.2 ENVIRONMENTAL STATEMENT CHAPTER 16 SUMMARY

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme	TR010062
Reference	
Application Document Reference	3.2
Author:	A66 Northern Trans-Pennine Project Team,
	National Highways

Version	Date	Status of Version
Rev 21		S4 Approved DCO Application



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## FIGURES (VOLUME 2)

None

## **TECHNICAL APPENDICES (VOLUME 3)**

None



### 16 Summary

### 16.1 Introduction

- 16.1.1 The previous technical chapters of the Environmental Statement (ES), Chapter 5: Air Quality to Chapter 15: Cumulative Effects, present the assessments for the individual EIA topics. Each individual chapter provides an assessment of the likely significant effects and have appendices setting out any non-significant effects. Table 16-1: Summary of assessment of residual likely significant effects by scheme provides a high level summary of likely significant effects remaining after mitigation has been implemented. This summary presents significant effects in operation which refers to the completion of the construction and the fully open and operational A66. The exception would be landscape and visual wherein the residisualresidual effects in operation are considered to be those that are still present 15 years after opening.
- 16.1.2 A summary of the assessment set out in the ES can be found in the ES Non-Technical Summary (Application Document 3.1).

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#### Table 16-1: Summary of assessment of residual likely significant effects by scheme

,	, , , ,	
Торіс	Assessment of likely significant environment	al effects
	Construction stage	Operation stage
Air Quality	No significant effects in any scheme	No significant effects in any scheme
Biodiversity	M6 Junction 40 to Kemplay Bank	M6 Junction 40 to Kemplay Bank
	No significant effects	No significant effects
	Penrith to Temple Sowerby	Penrith to Temple Sowerby
	No significant effects	No significant effects
	Temple Sowerby to Appleby	Temple Sowerby to Appleby
	No significant effects	<ul> <li>Permanent moderate adverse effect on barn owl as a result of new carriageway increasing barn own mortality in areas known to be used by foraging barn owl</li> </ul>
	Appleby to Brough	Appleby to Brough
	No significant effects	No significant effects
	Bowes Bypass	Bowes Bypass
	No significant effects	No significant effects
	Cross Lanes to Rokeby	Cross Lanes to Rokeby
	No significant effects	No significant effects
	Stephen Bank to Carkin Moor	Stephen Bank to Carkin Moor
	No significant effects	<ul> <li>Permanent moderate adverse effect on barn owl as a result of new carriageway increasing barn own mortality in areas known to be used by foraging barn owl</li> </ul>
	A1(M) Junction 53 Scotch Corner	A1(M) Junction 53 Scotch Corner
	No significant effects	No significant effects
Climate	No significant effects in any scheme	No significant effects in any scheme

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Торіс	Assessment of likely significant environmental effects		
	Construction stage	Operation stage	
Cultural Heritage	<ul> <li>M6 Junction 40 to Kemplay Bank</li> <li>Temporary moderate adverse effects upon setting of Grade II* listed Carleton Hall</li> <li>Temporary moderate adverse effects upon setting of Grade II Toll Bar Cottage</li> </ul>	M6 Junction 40 to Kemplay Bank <ul> <li>No significant effects</li> </ul>	
	<ul> <li>Penrith to Temple Sowerby</li> <li>Temporary moderate adverse effects upon setting of Grade II* listed Countess Pillar</li> <li>Temporary moderate adverse effects upon setting of Grade II* listed Alms Table</li> <li>Temporary moderate adverse effects upon setting of Grade II listed Milestone East of Whinfell Park</li> <li>Permanent moderate adverse effect upon archaeology at Scheduled Monument of Brougham Roman fort (Brocavum) and civil settlement and Brougham Castle</li> <li>Permanent moderate adverse effect upon archaeology at Ring ditches at Brougham</li> <li>Permanent moderate adverse effect upon archaeology at Peat deposit</li> </ul>	<ul> <li>Perrith to Temple Sowerby</li> <li>Permanent moderate beneficial effects upon Scheduled Monument and Grade II* listed Countess Pillar, Grade II* listed Alms Table due to a new amenity parking area and footway access providing better access to the site.</li> <li>Permanent moderate beneficial effects on scheduled Monument of St Ninian's and Grade II listed Church of St Ninian as a result of relocation of car park improving accessibility.</li> </ul>	
	<ul> <li>Temple Sowerby to Appleby</li> <li>Temporary moderate adverse effect upon setting at Grade II listed Milestone to the north-east of Crackenthorpe Hall</li> <li>Temporary moderate adverse effect upon setting at Grade II listed Spital Farmhouse with adjoining Stables</li> </ul>	Temple Sowerby to Appleby <ul> <li>No significant effects</li> </ul>	



Горіс	Assessment of likely significant environmental effects	
	Construction stage	Operation stage
	<ul> <li>Temporary moderate adverse effect upon setting at Grade II listed Threshing Barn and Byre to the east of Spital Farmhouse</li> <li>Temporary moderate adverse effect upon setting at Grade II listed Coach House, Barns, Byres and Entrance Arch to the north of Spital Farmhouse</li> <li>Permanent moderate adverse effect upon archaeology at Enclosure and other features north-west of Kirkby Thore</li> </ul>	
	Appleby to Brough	Appleby to Brough
	<ul> <li>Temporary moderate adverse effect upon setting (physical removal) at Grade II listed Boundary Stone <u>Toto</u> North <u>Of of</u> Bullistone Cottage</li> <li>Permanent moderate adverse effect upon archaeology at Scheduled Monument of Warcop Roman Camp</li> <li>Permanent moderate adverse effect upon archaeology at Sandford Moor Barrow</li> <li>Permanent moderate adverse effect upon archaeology at Sandford Ring Cairn Site</li> <li>Permanent moderate adverse effect upon archaeology at Sandford Moor Barrow Flint Find</li> <li>Permanent moderate adverse effect upon archaeology at Sandford Moor Barrow Flint Find</li> </ul>	No significant effects
	<ul> <li>Bowes Bypass</li> <li>Temporary and permanent moderate adverse effect upon setting at Grade II listed Stone Bridge Farmhouse</li> </ul>	<ul> <li>Bowes Bypass</li> <li>Permanent moderate adverse effect upon Grade II listed Stone Bridge Farmhouse, Grade II listed Loose boxes, 5 metres east of Stone Bridge Farmhouse. Grade II listed Farm buildings and gin-gang attached to south of</li> </ul>

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Торіс	Assessment of likely significant environmental effects	
	Construction stage	Operation stage
	<ul> <li>Temporary and permanent moderate adverse effect upon setting at Grade II listed Loose boxes, 5 metres east of Stone Bridge Farmhouse</li> <li>Temporary and permanent moderate adverse effect upon setting at Grade II listed Farm buildings and gin-gang attached to south of Stonebridge Farmhouse</li> </ul>	Stonebridge Farmhouse due to an increase in traffic passing immediately in front of the farmhouse group in addition to that along the main road corridor.
	Cross Lanes to Rokeby <ul> <li>No significant effects</li> </ul>	Cross Lanes to Rokeby <ul> <li>No significant effects</li> </ul>
	<ul> <li>Stephen Bank to Carkin Moor</li> <li>Permanent moderate adverse effect upon archaeology and setting at Roman Fort and Prehistoric enclosed settlement 400m west of Carkin Moor Farm</li> <li>Permanent moderate adverse effect upon archaeology at Roman Settlement at Carkin Moor Roman Fort</li> </ul>	<ul><li>Stephan Bank to Carkin Moor</li><li>No significant effects</li></ul>
	A1(M) Junction 53 Scotch Corner • No significant effects	A1(M) Scotch Corner • No significant effects
Geology and soils	Significant permanent adverse effects to Grade 2 and Grade 3a soils in every scheme with the exception of the A1(M) Junction 53 Scotch Corner. No significant effects at A1(M) Junction 53 Scotch Corner	No significant effects
Landscape and Visual	M6 Junction 40 to Kemplay Bank Significant temporary moderate adverse effects to:	<ul><li>M6 Junction 40 to Kemplay Bank</li><li>No significant effects in operation</li></ul>
	<ul> <li>Residences along Clifford Road and Skirsgill Lane;</li> <li>Visitors of Mayburgh Henge</li> </ul>	

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Торіс	Assessment of likely significant environmental effects			
	Construction stage	Operation stage		
	<ul> <li>Motorists and pedestrians using the A6</li> </ul>			
	Significant temporary large adverse effects to:			Formatted: Font: Not Bold
	<ul> <li>Recreational users of Wetheriggs Park, two public rights of way</li> </ul>			
	Penrith to Temple Sowerby	Penrith to Temple Sowerby	1	
	Significant temporary moderate adverse effects to:	<ul> <li>No significant effects in operation</li> </ul>		Formatted: Bulleted + Level: 1 + Aligned at: 0.63 cm +
	Local Character Areas of Sandstone Ridge and			Indent at: 1.27 cm
	Broad Valleys			Formatted: Font: Not Bold
	Significant temporary large adverse effects to:			Formatted: Font: Not Bold
	Recreational users of of the junction of the B6262     and Maar Lans mean Provide and Castle			
	<ul><li>and Moor Lane near Brougham Castle</li><li>Motorists and pedestrians of the minor road south</li></ul>			
	<ul> <li>Motorists and pedestrans of the minor road south of High Moss Woodland leading to the properties</li> </ul>			
	of Lane Ends			
	Recreational users of two public rights of way in			
	the area			
	Residents of Ash Hill Cottages along Cliburn Road			
	Temple Sowerby to Appleby	Temple Sowerby to Appleby		
	Significant temporary moderate adverse effects to:	Significant permanent moderate adverse effects to:		Formatted: Font: Not Bold
	Residences at Low Moor Park and Sleastonhow	<ul> <li>Local Character Areas of Broad Valleys and</li> </ul>		Formatted: Font: Not Bold
	Farm	Intermediate Farmland		
	<ul> <li>Motorists and pedestrians of Sleastonhow Lane</li> </ul>	<ul> <li>Recreational users of two public rights of way</li> </ul>		
	<ul> <li>Recreational users of one public right of way east</li> </ul>	<ul> <li>Motorists and pedestrians of Priest Lane</li> </ul>		
	of Low Abbey Farm	Significant permanent large adverse effects to:		Formatted: Font: Not Bold
	Significant temporary large adverse effects to:	Recreational users of one public right of way		Formatted: Font: Not Bold
	Local Character Areas of Broad Valleys and     Intermediate Farmland			

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pic	Assessment of likely significant environmental effects		
	Construction stage	Operation stage	
	<ul> <li>Recreational users of five public rights of way as well as the Eden Valley Cycle Route</li> </ul>		
	<ul> <li>Motorists and pedestrians of Long Marton Road, Sleastonhow Lane and Priest Lane</li> </ul>		
	Residents at Sandersons Croft		
	Significant temporary very large adverse effects to:		Formatted: Font: Not Bold
	<ul> <li>Recreational users of one public right of way near Kirkby Thore Primary School and one public right of way adjacent to the Roman Road north of Crackenthorpe</li> </ul>		Formatted: Font: Not Bold
	Appleby to Brough	Appleby to Brough	
	Significant temporary moderate adverse effects to:	Significant permanent moderate adverse effects to	Formatted: Font: Not Bold
	Local Character Areas of Broad Valleys	recreational users of Warcop Railway Station	Formatted: Font: Not Bold
	<ul> <li>Motorists and pedestrians of the minor road leading to Moor House Farm and of the B6259</li> </ul>		
	Significant temporary moderate adverse effects to:		Formatted: Font: Not Bold
	Local Character Area of Foothills		
	<ul> <li>Recreational users of five public rights of way and the Warcop Railway Station</li> </ul>		
	Bowes Bypass	Bowes Bypass	
	Significant temporary moderate adverse effects to:	Significant permanent moderate adverse effects to:	Formatted: Font: Not Bold
	Broad Character Area of Urban Area Bowes	Recreational users of one public rights of way	Formatted: Font: Not Bold
	Residences of Bowes	Motorists and pedestrians on and adjacent to The Street	
	<ul> <li>Recreational users of one public right of way, as well as the Pennine Way</li> </ul>		
	Significant temporary large adverse effects to:		Formatted: Font: Not Bold
	<ul> <li>Recreational users of Clint Lane</li> </ul>		

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opic	Assessment of likely significant environmental effects		
	Construction stage	Operation stage	
	Motorists and pedestrians on and adjacent to The Street		
	Recreational users of two public rights of way		
	Cross Lanes to Rokeby	Cross Lanes to Rokeby	
	Significant temporary moderate adverse effects to:	Significant permanent large adverse effects to:	Formatted: Font: Not Bold
	Broad Character Area of Barmingham, Briganall and Rokeby	<ul> <li>Residences in Dent House Farm</li> <li>Recreational users of three public rights of way, as well</li> </ul>	Formatted: Font: Not Bold
	<ul> <li>Residents in Boldron</li> <li>Rokeby Historic Park and Garden and associated Church of St Mary</li> </ul>	as users of Rokeby Park, the Church of St Mary	
	Motorists and pedestrians of Barnard Castle Road		
	Significant temporary large adverse effects to:		Formatted: Font: Not Bold
	Residences of Dent House Farm		
	<ul> <li>Recreational users of three public rights of way, as well as users of the Church of St Mary</li> </ul>		
	Stephen Bank to Carkin Moor	Stephen Bank to Carkin Moor	
	Significant temporary moderate adverse effects:	Significant permanent moderate adverse effects:	Formatted: Font: Not Bold
	<ul> <li>Local Landscape Character Area of East and West Layton Fringe and Local Character Area of West Layton</li> </ul>	Recreational users of two public rights of way	Formatted: Font: Not Bold
	<ul> <li>Recreational users of four public rights of way as well as visitors to Mainsgill Farm</li> </ul>		
	Significant temporary large adverse effects:		Formatted: Font: Not Bold
	Motorists and pedestrians of Colliers Lane		
	Recreational users of four public rights of way		
	Significant temporary very large adverse effects:		Formatted: Font: Not Bold
	<ul> <li>Recreational users of one public rights of way</li> </ul>		Formatted: Font: Not Bold



Торіс	Assessment of likely significant environmental effects	
	Construction stage	Operation stage
	A1(M) Junction 53 Scotch Corner No significant effects anticipated	A1(M) Junction 53 Scotch Corner No significant effects anticipated
Material Assets and Waste	Significant permanent adverse effect to one mineral safeguarding site as part of the Cross Lanes to Rokeby scheme	No significant effects
Noise and Vibration	<ul> <li>M6 Junction 40 to Penrith</li> <li>Significant <u>temporary</u> adverse effects upon receptors in Penrith, Eamont Bridge, Redhill</li> </ul>	<ul> <li>M6 Junction 40 to Penrith</li> <li>Significant <u>permanent</u> adverse effects upon receptors at commercial receptors by Skirsgill Roundabout (Gillian Way)</li> </ul>
	<ul> <li>Penrith to Temple Sowerby</li> <li>Significant temporary adverse effects upon receptors at Brougham, Temple Sowerby</li> </ul>	<ul> <li>Penrith to Temple Sowerby</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings at Whinfell Park</li> </ul>
	<ul> <li>Temple Sowerby to Appleby</li> <li>Significant temporary adverse effects upon receptors at Kirkby Thore, Long Marton, Crackenthorpe, Temple Sowerby, Colby, Appleby- In-Westmorland</li> </ul>	<ul> <li>Temple Sowerby to Appleby</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings to the north of Kirkby Thore by Sandersons Croft</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings by Spitals Farm, Halefield Farm, Sleastonhow, Powls House, Catrigg Hill and Roger Head</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Non-residential receptor at Spital Farm</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings by West View and Foxtower (Mains House)</li> </ul>

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Горіс	Assessment of likely significant environmental effects			
	Construction stage	Operation stage		
	<ul> <li>Appleby to Brough</li> <li>Significant <u>temporary</u> adverse effects upon receptors at Brough, Warcop, Sandford, Coupland Beck</li> </ul>	<ul> <li>Appleby to Brough</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings at Warcop</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Non-residential receptor at Apple Tree Farm</li> </ul>		
	<ul> <li>Bowes Bypass</li> <li>Significant <u>temporary</u> adverse effects upon receptors at Bowes, Boldron, Gilmonby</li> </ul>	<ul> <li>Bowes Bypass</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwelling at Stone Bridge Farm</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Non-residential receptor by A66 (western outskirts of Bowes)</li> </ul>		
	Cross Lanes to Rokeby <ul> <li>Significant temporary adverse effects upon receptors at Barnard Castle, Rokeby, Brignall</li> </ul>	<ul> <li>Cross Lanes to Rokeby</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings located at Cross Lanes and Rokeby</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwelling located at North Bitts Farm</li> <li>Significant <u>permanent</u> adverse effects upon receptors at residential dwellings near Tutta Beck and Birk House</li> <li>Significant <u>permanent</u> adverse effects upon receptors at residential dwellings near Tutta Beck and Birk House</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Residential dwellings near Tutta Beck and Birk House</li> <li>Significant <u>permanent</u> adverse effects upon receptors at Non-residential receptor at Cross Lanes Organic Farm Shop</li> </ul>		
	<ul> <li>Stephen Bank to Carkin Moor</li> <li>Significant temporary adverse effects upon receptors at East Layton, Ravensworth, West Layton</li> </ul>	<ul> <li>Stephen Bank to Carkin Moor</li> <li>Significant permanent adverse effects upon receptors at Residential receptors near West Layton and Carkin Moor Farm</li> </ul>		

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Торіс	Assessment of likely significant environmental effects	
	Construction stage	Operation stage
	<ul> <li>A1(M) Junction 53 Scotch Corner</li> <li>Significant temporary adverse effects upon receptors at Middleton Tyas, Scotch Corner</li> </ul>	A1(M) Junction 53 Scotch Corner No significant effects
Population & Human Health	<ul> <li>M6 Junction 40 to Kemplay Bank</li> <li>Significant temporary adverse effects to local community, businesses and community assets.</li> </ul>	<ul> <li>M6 Junction 40 to Kemplay Bank</li> <li>Significant permanent beneficial effects to 24 community assets and to the tourism sector of the Lake District.</li> </ul>
	<ul> <li>Significant adverse permanent adverse effects to one community asset</li> <li>Significant adverse permanent adverse effects to three agricultural land holdings</li> </ul>	<ul> <li>Significant permanent beneficial effect to one community asset as a result of permanent noise and vibration changes.</li> </ul>
	<ul> <li>Penrith to Temple Sowerby</li> <li>Significant permanent adverse effect to five private properties</li> <li>Significant permanent adverse effects to one business</li> <li>Significant temporary adverse effects to one business as a result of construction related dust, landscape changes, and noise and vibration</li> <li>Significant permanent adverse effects on two agricultural land holdings .</li> </ul>	<ul> <li>Penrith to Temple Sowerby</li> <li>Significant permanent beneficial effect to one community asset as a result of permanent noise and vibration changes.</li> <li>Significant permanent beneficial effect to one business in the operational phase.</li> </ul>
	<ul> <li>Temple Sowerby to Appleby</li> <li>Significant permanent adverse effect to two private properties</li> <li>Significant temporary adverse effects to six community assets and one business as a result of</li> </ul>	<ul> <li>Temple Sowerby to Appleby</li> <li>Significant <u>permanent</u> beneficial effects to four community assets</li> <li>Significant permanent beneficial effects to six community assets and four businesses as a result of permanent noise and vibration changes</li> </ul>

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Торіс	Assessment of likely significant environmental effects	Assessment of likely significant environmental effects		
	Construction stage	Operation stage		
	<ul> <li>construction related dust, landscape changes, temporary land_take, and noise and vibration</li> <li>Significant permanent adverse effects on 12 agricultural land holdings.</li> </ul>	Significant permanent beneficial effect to one business		Formatted: Font: Not Bold Formatted: Font: Not Bold
	<ul> <li>Appleby to Brough <ul> <li>Significant permanent adverse effect to two private properties</li> <li>Significant temporary adverse effects to nine community assets as a result of construction related dust, landscape changes, and noise and vibration.</li> <li>Significant temporary adverse effects to two businesses as a result of construction related dust, landscape changes, temporary land_take, and noise and vibration.</li> <li>Significant permanent adverse effects on six agricultural land holdings</li> </ul> </li> </ul>	<ul> <li>Appleby to Brough <ul> <li>Significant permanent beneficial effects to 12 community assets</li> <li>Significant permanent beneficial effect to one business in the operational phase.</li> </ul> </li> </ul>		
	<ul> <li>Bowes Bypass</li> <li>Significant permanent adverse effect to one private property</li> <li>Significant temporary adverse effects to three community assets as a result of construction related dust, landscape changes, and noise and vibration</li> <li>Significant permanent adverse effects to one business</li> </ul>	<ul> <li>Bowes Bypass</li> <li>Significant permanent beneficial effects to three community assets</li> <li>Significant permanent beneficial effect to one business in the operational phase.</li> </ul>		



Торіс	Assessment of likely significant environmental effects			
	Construction stage	Operation stage		
	<ul> <li>Significant temporary adverse effects to one business as a result of construction related dust, landscape changes, and noise and vibration</li> <li>Significant permanent adverse effects on 11 agricultural land holdings</li> <li>Significant permanent adverse effect to National Cycle Route 70 Pennine Way</li> </ul>			
	Cross Lanes to Rokeby	Cross Lanes to Rokeby		
	<ul> <li>Significant permanent adverse effects to one business</li> </ul>	No additional significant effects anticipated		Formatted: Font: Not Bold
	<ul> <li>Significant permanent adverse effects on seven agricultural land holdings</li> </ul>			Formatted: Font: Not Bold
	Stephen Bank to Carkin Moor	Stephen Bank to Carkin Moor	1	
	Significant permanent adverse effect to one	Significant permanent beneficial effect to two businesses		Formatted: Font: Not Bold
	<ul><li>private property</li><li>Significant permanent adverse effects on three</li></ul>			Formatted: Font: Not Bold
	agricultural land holdings			Formatted: Font: Not Bold
	A1(M) Junction 53 Scotch Corner	A1(M) Junction 53 Scotch Corner		
	No significant effects anticipated	No significant effects anticipated		Formatted: Font: Not Bold
				Formatted: Font: Not Bold
Road Drainage and Nater Environment	Significant permanent adverse effect to Flitholme Spring as a result of risk posed by the design encroaching into it.	No significant effects		Formatted: Font: Not Bold
Cumulative Effects	No significant effects	No significant effects		