

# **A1 in Northumberland: Morpeth to Ellingham**

**Scheme Number: TR010059**

**DCO.1 Limits of Deviation Assessment WQ**

**DCO.1.32**

APFP Regulation Rule 8(1)(b)

Planning Act 2008

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

Infrastructure Planning

Planning Act 2008

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

**The A1 in Northumberland: Morpeth to  
Ellingham**

Development Consent Order 20[xx]

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**Limits of Deviation Assessment WQ DCO.1.32**

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<b>Regulation Reference:</b>	APFP Regulation Rule 8(1)(b)
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## 1 RESPONSE TO WRITTEN QUESTION DCO.1.32

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- 1.1.1. Article 7 – Limits of deviation Paragraph 7.12 of the Explanatory Memorandum indicates that the Limits of Deviation referred to in this article and shown on the application plans have been taken into account in preparation of the ES and the potential impacts of a deviation within the permitted limits have been assessed. Demonstrate how this has been done.

Technical Topic	Approach aken to consider potential impacts of vertical and horizontal Limits of Deviation	Findings	Where the information is presented
Noise and Vibration	<p>The vertical Limits of Deviation (LODs) have been separately tested within the 3D noise model. To consider a worst case, the maximum upwards deviations have been added to modelled Scheme heights.</p> <p>The lateral LODs for Part A and Part B are discussed within Chapter 6 Noise and Vibration Part A [APP-042] and Chapter 6: Noise and Vibration Part B [APP-043]. The specific approach taken to determine the potential for changes to the noise and vibration assessment of each individual LOD is described within Table 6-37 for Part A [APP-042] and Table 6-40 for Part B [APP-043].</p>	<p><b>Vertical LODs</b></p> <p>Analysis of the results showed that the increase in road height is unlikely to alter the conclusions of the noise and vibration assessment.</p> <p><b>Horizontal LODs</b></p> <p>The findings of the assessment of LODs presented in Table 6-37 of Chapter 6: Noise and Vibration Part A [APP-042] and Table 6-40 of Chapter 6 Noise and Vibration Part B (APP-043) were that the LODs were unlikely to alter the conclusions of the noise and vibration assessment.</p>	<p><b>Vertical LODs</b></p> <p>The LODs were not inherently included within the assessment but tested separately.</p> <p><b>Horizontal LODs</b></p> <p>The assessment findings are presented in Table 6-37 of Chapter 6: Noise and Vibration Part A [APP-042] and Table 6-40 of Chapter 6: Noise and Vibration Part B [APP-043].</p>
Air Quality	<p>The assessment methodology (refer to Chapter 5: Air Quality Part A [APP-040] and Chapter 5: Air Quality Part B [APP-041] allows flexibility so that a worst case vertical LOD has been assessed.</p> <p>The lateral LODs for Part A and Part B have been considered separately and are discussed within paragraph 5.10.7 of Chapter 5: Air Quality Part A [APP-040] and paragraph 5.10.6 of Chapter 5: Air Quality Part B [APP-041].</p>	<p>The LODs are not anticipated to alter the significance of effects of the air quality assessment.</p>	<p>Paragraph 5.10.7 of Chapter 5: Air Quality Part A [APP-040] and paragraph 5.10.6 of Chapter 5: Air Quality Part B [APP-041].</p>
Biodiversity	<p>The LOD have been assessed in accordance with the methodology presented in Chapter 9: Biodiversity Part A [APP-048] and Chapter 9: Biodiversity Part B [APP-049].</p>	<p>The LODs are not anticipated to alter the significance of effects of the biodiversity assessment.</p>	<p>Paragraphs 9.10.46 and 9.10.47 of Chapter 9: Biodiversity Part A of the ES [APP-048].</p> <p>Paragraph 9.10.18 and Table 9-14 of Chapter 9: Biodiversity Part B of the ES [APP-049].</p>
Landscape and Visual	<p>The assessment of the LOD have been subject to a detailed review using the approach set out in Chapter 7: Landscape and visual Part A of the ES [APP-044] and Chapter 7: Landscape and visual Part B of the ES [APP-045]).</p> <p>This has comprised consideration of the degree to which the vertical or horizontal deviation from the design of the Scheme, as set out in Art 7 – Limits of deviation Paragraph 7.12 of the EM, would have the</p>	<p>The magnitude of the changes as a result of the LoD in the context of the landscape and within views, the majority of which are relatively distant, are not considered to be likely to be readily perceptible and as a result not likely to give rise to a change in the findings of the assessments.</p>	<p>Chapter 7: Landscape and visual Part A of the ES [APP-044] and Chapter 7: Landscape and visual Part B of the ES [APP-045].</p>

Technical Topic	Approach aken to consider potential impacts of vertical and horizontal Limits of Deviation	Findings	Where the information is presented
	potential to give rise to a change in the findings of the assessment of landscape and visual effects.		
Cultural Heritage	Separate testing of LOD was undertaken based on the methodology set out in Section 8.4 of Chapter 8: Cultural Heritage Part A [APP-046] and Chapter 8: Cultural Heritage Part B [APP-047].	<p>The horizontal and vertical LOD would not generate additional effects on heritage assets.</p> <p>Chapter 8: Cultural Heritage Part A [APP-046] and Part B [APP-047] assumes the potential for adverse impacts on below ground heritage assets and historic landscapes throughout the entire Order limits, during construction due to ground disturbance. The horizontal LOD are all contained within the Order limits and do not require any additional land take. Therefore, there would not be any additional impacts or effects on below ground heritage assets or historic landscapes than those already reported.</p> <p>Chapter 8: Cultural Heritage Part A [APP-046] and Part B [APP-047] has assessed the potential for impacts during construction and operation on the setting of heritage assets up to 1 km outside of the Order limits. The separate test reviewed the potential for additional impacts on the setting of heritage assets outside of the Order limits from the horizontal and vertical LOD. The test established that the horizontal LOD would not generate additional impacts and effects upon the setting of above ground heritage assets as they represent minor repositioning of above ground infrastructure elements. The magnitude of variation of the heights within the proposed vertical LOD would also be minor and therefore would not result in any additional impacts and effects on the setting of heritage assets.</p>	<p>Chapter 8: Cultural Heritage Part A [APP-046] Paragraph 8.10.26 to 8.10.29</p> <p>Chapter 8: Cultural Heritage Part B [APP-047] Paragraph 8.10.39 to 8.10.41.</p>
Road Drainage and the Water Environment	The assessment of vertical and horizontal LOD was undertaken as part of the assessment. A separate assessment was undertaken for parameter 10 in relation to the geomorphology of the River Coquet.	The Applicant does not consider the parameters to alter the findings or significance of effects of the road drainage and water environment assessment. This is due to the parameters not increasing the works in or adjacent to the water environment receptors.	Paragraphs 10.10.45 and 10.10.46 of Chapter 10: Road Drainage and the Water Environment Part A of the ES [APP-050] and Part B [APP-051]. The additional geomorphology assessment of Parameter 10 is presented in Appendix 10.7 Geomorphology Assessment – River Coquet Parameter 10 Part A of the ES [APP-260].

Technical Topic	Approach aken to consider potential impacts of vertical and horizontal Limits of Deviation	Findings	Where the information is presented
Geology and Soils	Assessed as part of the assessment in line with methodology presented within Chapter 11: Geology and Soils Part A of the ES [APP-052] and Chapter 11: Geology and Soils Part B of the ES [APP-053].	No change to the outcome of assessment of effects anticipated.	Consideration of Assessment Parameters 1 to 12 is provided in Sections 11.10.35 to 11.10.36 of Chapter 11: Geology and Soils Part A of the ES [APP-052]. Consideration of Assessment Parameters 1 to 3 is provided in Sections 11.10.36 to 11.10.37 of Chapter 11: Geology and Soils Part B of the ES [APP-053].
Materials	Assessed as part of the assessment in line with methodology presented within Chapter 13: Material Resources Part A of the ES [APP-056] and Chapter 13: Material Resources Part B of the ES [APP-057].	No change to the outcome of assessment of effects anticipated.	The information used to carry out the assessment was based on worst-case scenario and therefore the LOD are inherently included in the assessments. Consideration of these assessment parameters are described in Table 13-21 of Chapter 13: Material Resources Part A of the ES [APP-056] and Table 13-21 Part B [APP-57].
Climate	Assessed as part of the assessment in line with methodology presented within Chapter 14: Climate Part A of the ES [APP-058] and Chapter 14: Climate Part B of the ES [APP-059].	No change to the outcome of assessment of effects anticipated.	The assessment utilises material and waste data assessed by Chapter 13: Material Resources Part A of the ES [APP-56] and Part B [APP-57]. This information is based on the worst-case scenario and therefore the LOD are inherently included in the assessment.  Traffic data used for the assessment would not be significantly affected by small changes applied by the LOD and would therefore not have a measurable impact.
Population and Human Health	Assessed as part of the assessment in line with methodology presented within Chapter 12: Population and Human Health Part A of the ES [APP-054] and Chapter 12: Population and Human Health Part B of the ES [APP-055].	No change to the outcome of assessment of effects anticipated.	Paragraphs 12.10.72 and 12.10.73 of Chapter 12: Population and Human Health Part A of the ES [APP-054].  Paragraph 12.10.52 of Chapter 12: Population and Human Health Part B of the ES [APP-055].

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