

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010059

7.27 Applicant's Responses to Deadline 6 Submissions

Rule 8(1)(c)

Infrastructure Planning (Examination Procedure) Rules 2010

Planning Act 2008

May 2021



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Examination Procedure) Rules 2010

The A1 in Northumberland: Morpeth to Ellingham

Development Consent Order 20[xx]

Applicant's Response to Deadline 6 Submissions

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1 APPLICANT'S RESPONSE TO DEADLINE 6 SUBMISSIONS

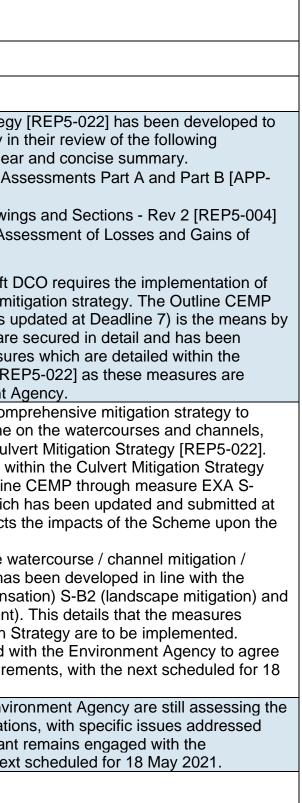
1.1 INTRODUCTION

- 1.1.1. This document relates to an application for a Development Consent Order (DCO) made on 7 July 2020 by Highways England (the 'Applicant') to the Secretary of State for Transport via the Planning Inspectorate (the 'Inspectorate') under section 37 of the Planning Act 2008 (the '2008 Act'). If made, the DCO would grant consent for the A1 in Northumberland: Morpeth to Ellingham (the 'Scheme').
- 1.1.2. The Scheme comprises two sections known as Part A: Morpeth to Felton (Part A) and Part B: Alnwick to Ellingham (Part B), a detailed description of which can be found in Chapter 2: The Scheme, Volume 1 of the Environmental Statement (ES) [APP-037].
- 1.1.3. The purpose of this document is to set out the Applicant's response to submissions made at Deadline 6. The Applicant notes that Historic England made a submission at Deadline 6 [REP6-054] but confirmed that they had no comments.

Table 1-1 – Environment Agency

Ref. No.	Response:	Applicant's Response:
Summ	ary of Written Representations - on behalf of the Environment Agency (EA)	
Deadli	ne 5 Submission - 7.3 Updated Outline Construction Environmental Management Plan (Tracked) - Re	v 4a [REP5-013]
1	It is unclear what the hierarchy is between the Updated Outline Construction Environmental Management Plan (CEMP) and 7.9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022] as there is a significant degree of overlap between the two documents. Both documents independently contain important details that are not apparent in the other document. We would welcome clarification on this.	 The Culvert Mitigation Strateg aid the Environment Agency in documents by providing a clear Water Framework Directive A 255 and APP-312]; Structures Engineering Drawin Annex A - Approach to the As Watercourses [REP2-010].
		2. Requirement 8(3) of the draft the measures in the culvert m [REP6-025 and 026] (and as a which mitigation measures are updated to include the measu Culvert Mitigation Strategy [R] agreed with the Environment
2	We request that specific acknowledgement of and the need for mitigation and compensation for the loss and damage/disturbance to the many watercourses crossed by the scheme is clearly stated. This needs to be independent of, but as detailed as and on a par with actions like S-B1, S-B2 or S-B20.	 The Applicant has included a conoffset the impacts of the Scheme this is summarised within the Cult The measures that are detailed wand are secured within the Outlin W101 [REP6-025 and 026], which Deadline 7. This measure reflects watercourses. EXA S-W101 is a Scheme wide watercourses. EXA S-W101 is a Scheme wide watercourses S-B1 (habitat compensation measure which hat measures S-B1 (habitat compensation structures). The Applicant remains engaged water outstanding mitigation required May 2021.
3	We are still assessing whether the measures presented to compensate and mitigate for the impact of the scheme on the crossed watercourses is adequate. A number of comments have been made to specific actions in the outline CEMP.	 The Applicant notes that the Envi Scheme and associated implication below. Furthermore, the Applican Environment Agency with the new
Deadli	ne 5 Submission - 7.22 Applicant's Response to Deadline 4 Submissions [REP5-029]	
4	Ref. No. 1	1. Dry ditch is not listed in the UK H Biodiversity Metric and therefore





Habitat Classification or Defra

	Phase 1 habitat codes are not used when using the Defra Biodiversity Metric as they require UK Habitat Classification, meaning that the Phase 1 for Dry Ditch must have been converted into a UK Habitat Classification code. The UK Habitat Classification does not have a code / habitat type for Dry Ditch. It is also noted that table 2-2 – Corresponding JNCC Phase 1 Habitat and UK Habitat Classifications within 6.28 Biodiversity No Net Loss Assessment for the Scheme (Clean) for Change Request [REP5-038] omits this detail. We would welcome clarity of what was used for the calculations and if the value as a linear feature has been captured.	2.	feature. As such, dry ditches do no used for the biodiversity not net los However, the ecological assessme function of dry ditches. Dry ditches boundaries and their value as a lin features/habitats, such as hedger As channels that are only seasona periods of rain), the ditches do not wildlife (such as fish). Connectivity wildlife (such as badger and bats) creation of hedgerows (linear featu (such as those features that run in Burn (Part A) and the Kittycarter B
5	According to the current package of compensatory works detailed within 7.9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022], a total of 1240m of riparian planting is included to compensate for the loss of 427m of watercourse. The figure of 427m only captures the length of the culvert and does not take into account the easement either side of the new or extended bridges that will require being cleared of all vegetation and possibly any bank features to allow construction to take place. As such, on watercourses such as Floodgate Burn or the River Lyne where substantial riparian woodland already exists, the loss and impact is not clearly represented and is expected to be much larger than 427m.	2.	The Applicant can confirm that it is result in the loss of 427m of water Approach to the Assessment of Lo [REP2-010]. This comprises 271m The Culvert Mitigation Strategy [R culvert (new or extended) and the on loss of watercourse are identified relation to Annex A - Approach to of Watercourses [REP2-010]. This for Part B. Riparian planting is one measure w strategy for the impacts of the Sch within the Culvert Mitigation Strate included within the comprehensive a. Fish baffles b. Realigned watercourses c. Improvements to Longdike
		5. 6. 7. 8.	The Applicant can also confirm that provided. Noting that the riparian provements to the watercourses compensation measures included – i.e. it is not the only mitigation/co The riparian planting proposed will banks or those with sporadic / sem enhancement to the current condit This riparian planting represents is to the length of watercourse lost. The vegetation loss is shown on the Change Request [REP4-040]. To assist the interpretation by the the net impact of riparian planting watercourse specific plan will be s on these plans is provided in the re The Applicant continues to engage regard to the loss of watercourse as



not require inclusion within the metric loss assessment.

ment has considered the value and es were primarily recorded along field linear feature is associated with other erows, providing connectivity for wildlife. nally or temporarily wet (following ot provide connectivity for aquatic ity along the Scheme for terrestrial s) would be maintained through the atures) and the realignment of ditches into Fenrother Burn (Part A), Earsdon Burn (Part B)).

is predicted that the Scheme would ercourse, as detailed within Annex A -Losses and Gains of Watercourses m for Part A and 156m for Part B. [REP5-022] only identifies the length of e associated direct impacts, the impacts ified and discussed in item 15, in o the Assessment of Losses and Gains his comprises 271m for Part A and 156m

e within the compensation / mitigation cheme on the channels as detailed itegy [REP5-022]. The other measures ve mitigation package are:

e Burn

that 1,240m of riparian planting is to be in planting, which will provide es to offset the impacts is one of the ed in the Scheme for loss of watercourse compensation measure proposed. will either be on channels with clear emi continuous cover to provide an ditions. a is a significant length when compared .

the Vegetation Clearance Plans for

e Environment Agency and demonstrate g as a result of the Scheme a

submitted at Deadline 8, further context response to Item 6.

ge with the Environment Agency with as a result of culverting across the Applicant's Response to Deadline 5 and 5a Submissions

		Scheme. The position of the Appl already been identified to mitigate although the Environment Agency Deadline 5 Submission [REP5-04 that the culverting and loss of wat could be offset / compensated ou remains under discussion.
6	Furthermore, much of the claimed riparian planting is either where existing riparian woodland already exists on these burns. Therefore, it is unclear how much of the 1240m is to replace what is to be lost due to the scheme and what is compensatory.	 A set of plans demonstrating I to the compensation for the lo Deadline 8. It is proposed that Aerial imagery (i.e. demonstrating the cu Lengths and locations of the proposed r Mitigation Strategy [REP5-022]) Locations of the watercourses (OS map Post Construction Scheme Layout [REP Land plans [REP6-003] Landscape Mitigation Plans [REP4-010 Vegetation Clearance Plans [REP4-040] From this information it is anti- will be in a more informed pos the differences between repla
7	The Applicant must clearly demonstrate not only the loss of watercourse due to culverting, but also the length of existing riparian habitat lost to ensure it is clear where the riparian planting is compensation for loss of existing riparian, or compensation for the loss of watercourses through culverting.	 This relates to the issue addresse the set of plans to be issued at De
8	The Applicant is suggesting to undertake 'nutrient management measures, aquatic planting and bankside stabilisation' on Longdike Burn. We are concerned that this may be claimed as compensation without any evidence that these issues are present within the proposed area or are in fact causing a degradation of the watercourse. We would also welcome further information regarding how these areas are to be maintained and protected once returned to landowners.	 The Applicant provided further Burn at Deadline 6 in Item 38 of Response to Deadline 5 and 5 supported by Appendix iii – Inc [REP6-042]. This details that th Riparian woodland planting (subjective native tree species) Enhancements to an existing bern wetland tolerant / amphibious veg Aquatic macrophyte planting to car enhancements to the berm featur Understorey planting (this may be reach) this could include amphibid The Applicant is no longer proposi or nutrient management measures will assist in managing any nutrier the burn from the adjacent golf co type of tree stands typically have p increase fine sediment delivery an The Land Plans [REP6-003] demo Longdike Burn is proposed to be e acquired by the Applicant and will This will be set out in the LEMP, w



plicant is that sufficient measures have ate and/or offset the assessed impacts, acy disagree. In the Environment Agency 044], the Environment Agency outlined vatercourses as a result of the Scheme outside of the DCO boundaries, this

g how the riparian planting will contribute loss of channel will be submitted at at these plans include: current conditions) I riparian planting (as detailed in the Culvert

apping derived) EP6-005]

0 and REP6-018] 40]

nticipated that the Environment Agency osition to understand the proposals and lacement and compensation planting. Sed in Item 5 and will be demonstrated on Deadline 8.

er details on the proposals for Longdike of Table 1-1 of the Applicant's 5a Submissions [REP6-040] which is ndicative Longdike Burn Proposals the following measures are proposed: bject to detailed design this could include

erm with suitable planting particularly egetation.

compliment the riparian planting and ure.

be beneficial along other parts of the bious or reeds or rushes.

besing to undertake bankside stabilisation res in isolation, but notes that the planting ents or sediments which currently reach course or the coniferous plantation as this e poor or absent understorey and thus and runoff to watercourses. Inonstrate that the land in which the e enhanced is to be permanently ill therefore be managed appropriately.

which is secured within ExA: S-L100 of

		the Outline CEMP [REP6-025 and this will then be adopted into the H
9	With respect to point 1 of the Applicant's response, it states that 'Additional improvement measures identified that collectively form the current package of compensatory works include design of realigned watercourse channels (138m, Part A) to be better (in terms of environmental condition and biodiversity value) than that lost'. We would welcome clarification as to how the delivery of improvement measures to a section of watercourse that is to be realigned as part of the scheme can be classed as compensation?	 This point was addressed in item 2 Response to Deadline 4 Submissi considers that if the realigned wat the same condition / state as they However, as they are to be constr over and above that lost, this is ac the Scheme on the channels and package of mitigatory works detail Strategy [REP5-022].
10	Ref. No. 3 We hold data that shows 3 records of otter within 2km within the last 10 years (2015, 2016 and 2017). On 29/04/21 the EA undertook a site visit to Shipperton Burn in Part B of the scheme. An abundance of otter spraints were found both upstream and downstream of the structure, indicting the burn is actively used by otters. In total 6 sprainting locations were founding within 200m of the scheme, with the closest c.10m upstream from the road boundary. We have provided the Applicant with this evidence.	 As detailed in the Applicant's Resp [REP5-029], the most recent otter the Applicant for Part B (2km sear to 2015, located 1km from Part B. Summaries of Oral Submissions to [REP6-044], the records from 201 the Environment Agency were not set. However, following further dis the Applicant acknowledges the tw which are located approximately 2 Following Issue Specific Hearing 3 the Environment Agency on 23 an evidence for the presence of otter the study area for Part B (along SI Environment Agency at the meetir considering this and the potential crossing locations. The Applicant is discussing ideas along Part B. The Applicant is acti Agency on this matter and is maki Further discussions will be capture Ground with the Environment Age
11	In light of this clear evidence of use by otters, we request that the Applicant takes into account this evidence and revaluates their assessment for otter in Part B, specifically the risks posed by the Shipperton Burn culvert. This should include the provision of appropriate mitigation measures.	 As detailed in response 10 above, the Applicant held discussions wit 30 April 2021 to explore the evide evidence of otter adjacent to the s Burn) was provided by the Enviror April, and the Applicant is conside fencing along Part B at key crossin discussing ideas for mammal fence Applicant is actively engaging with matter and is making progress to s will be captured within the Statem Environment Agency [REP6-032]
12	In response to the Applicant's response, point 4, we welcome the additional measure. However, this is highly reactive to the death of a European protected species and does not apply the precautionary principle given the records and evidence presented.	 As detailed in Appendix F Otte during Issue Specific Hearing (confirmed that they consider or and would therefore support th



d 026] (and updated at Deadline 7), and HEMP.

n 2 of table 1-4 of The Applicant's sions [REP5-029]. The Applicant atercourses were to be constructed in ey currently are, this would be mitigation. structed so as to be an improvement additional mitigation for the impacts of d therefore forming part of the overall ailed within the Culvert Mitigation

sponse to Deadline 4 Submissions er record within the dataset obtained by arch area from Order limits) dates back B. As detailed in the Applicant's Written to Hearings issued at Deadline 6 016 and 2017 for Part B referred to by ot present within the Applicant's data iscussion with the Environment Agency, two otter records from 2016 and 2017, 2km from Part B.

g 3, the Applicant held discussions with and 30 April 2021 to explore the er. Further evidence of otter adjacent to Shipperton Burn) was provided by the ting on 30 April, and the Applicant is al need for fencing along Part B at key

s for mammal fencing at four locations ctively engaging with the Environment king progress to seek a resolution. ured within the Statement of Common gency [REP6-032] at Deadline 8.

e, following Issue Specific Hearing 3, vith the Environment Agency on 23 and lence for the presence of otter. Further study area for Part B (along Shipperton onment Agency at the meeting on 30 dering this and the potential need for sing locations. The Applicant is noting at four locations along Part B. The ith the Environment Agency on this o seek a resolution. Further discussions ment of Common Ground with the 2] at Deadline 8.

ter Position Statement [REP6-048], g (ISH) 3, the Environment Agency otter widespread in Northumberland the application of the precautionary A1 in Northumberland: Morpeth to Ellingham Applicant's Response to Deadline 5 and 5a Submissions

13	Ref. No 4, point 3	 Statement of Common Ground wir 032] at Deadline 8. ¹ Chanin P (2003). Monitoring the Otter L Rivers Monitoring Series No. 10, English 1. The Environment Agency is reference the Applicant's Response to Dead
		 between 2016 and 2019. The <i>A</i> precautionary approach is ass 2. As detailed in Appendix F Otter Pe Applicant's conclusion of likely abar and 20-26, Table 1-4 of the Applic Submissions [REP5-029]. By way Part B identified historic otter recorreturned from 2015 approximately carriageway. The most recent otter limits of Part B) dates back to 201 field surveys for Part B were under accordance with best practice guid undertaken along watercourses sp carriageway in 2016, 2017, 2018 a activity or presence recorded alon within the Order limits or survey a study results, the negative field surveys informed a "likely absent" Order limits." 3. Post-construction monitoring, measure proposed at Deadline 5 is at the time and the conclusion of I However, as detailed in responses Specific Hearing 3, the Applicant F Agency on 23 and 30 April 2021 to presence of otter. Further evidence for Part B (along Shipperton Burn) Agency at the meeting on 30 April and the protential need for fencing crossing locations. The Applicant fencing at four locations along Parwith the Environment Agency on tseek a resolution. Further discuss
		the Applicant was not informed submission of the application f assessment of otter based on local records centre (Environm (ERIC) North East) and survey



principle (i.e. assume presence). Notwithstanding its scoping exercise and correspondence with the Environment Agency on EIA, the Applicant was not informed or aware of this position prior to the for the Scheme and made an n desk study records obtained from the mental Records Information Centre eys undertaken by the Applicant e Applicant was not made aware that a sumed necessary to be taken. Position Statement [REP6-048], "The bsence is set out in full within Items 3 licant's Response to Deadline 4 ay of summary, desk study records for cords, with the most recent record ely 1km to the east of the A1 tter casualty on the A1 (within the Order 011. In addition to the desk study, otter dertaken by experienced surveyors in uidelines (Chanin, 2003)¹. Surveys were spanning either side of the existing A1 8 and 2019, with no evidence of otter ong any watercourses or riparian habitat area. Of the historic nature of the desk survey results over a number of years ntly suboptimal habitats to support the t" classification for otter within the Part B easure B-B30 of the Outline CEMP dated at Deadline 7), was an additional 5 in response to the Applicant's position f likely absence of otter for Part B. es 10 and 11 above, following Issue t held discussions with the Environment to explore the evidence for the nce of otter adjacent to the study area n) was provided by the Environment ril, and the Applicant is considering this g (mitigation) along Part B at key t is discussing ideas for mammal art B. The Applicant is actively engaging this matter and is making progress to ssions will be captured within the vith the Environment Agency [REP6-

> Lutra lutra. Conserving Natura 2000 sh Nature, Peterborough

erencing Item 4 point 3 of Table 1-4 of adline 4 Submissions [REP5-029]. This

Applicant's Response to Deadline 5 and 5a Submissions

	We do not agree that the proposed level of compensation is adequate for the loss of or damage to watercourse and riparian habitat that will be realised due to the delivery of the scheme.	 remains under discussion with the of the key topics for the meeting of 2. The Applicant considers that the I the loss or damage to watercours delivery of the Scheme due to the being proposed as detailed in the that 427m of watercourse will be 1,240m of riparian planting is to b compensation measures as detail 3. The Applicant continues to engage regards to the loss of watercourse Scheme, with the next meeting so
14	Ref.No4a We welcome that further details and clarity around the proposed improvements to the Longdike Burn. It is noted that this information will be provided at Deadline 7.	 As detailed in the response to Iter information on the proposals for L of Table 1-1 of the Applicant's Re Submissions [REP6-040] which is Longdike Burn Proposals [REP6- the Environment Agency on this a scheduled for 18 May 2021.
15	Ref. No.6 The figure presented for the loss of watercourse is 427m. We are unclear if this simply relates to the length of the culvert, or the headwalls and other physical modifications that result in the loss of natural bank / riparian vegetation removal. Where tree planting is often replaced at a ratio of at least 3:1 to account for unsuccessful establishment, and to counter the short term loss overall biomass and biodiversity value, watercourses here are simply being replaced at a 1:1 ratio based only on the length of the culvert and not the other construction features associated with such strictures.	 This response should be read in a 5 and 13 of this document. The Applicant can confirm that it i result in the loss of 427m, as deta Assessment of Losses and Gains comprises 271m for Part A and 18 These values represent the loss of a culvert/culvert extension and as headwalls and other physical r realignment of channels, that resu (including bank and associated rip Floodgate Burn, the proposed ext 6.7m (see Culvert Mitigation Strat additional realignment of the char calculated to be 40.6m. The measurements have been inf culvert extension, Structures and [REP5-004], Phase 1 habitat plan and Part B [APP-155] and aerial i channel is accurate as far as reas available. The Environment Agency have in being "replaced at a 1:1", which is Applicant's Response to Deadline 54), both the Applicant and the Environment being where watercours watercourses are not being "replaced at a 1:1"



he Environment Agency and will be one g on 18 May 2021.

e level of compensation is sufficient for irse and riparian habitat as a result of the he substantial lengths of improvement he response to Item 5. Item 5 outlines e lost as a result of the Scheme and be provided, as one of the ailed in the response to Item 8. age with the Environment Agency with rse as a result of culverting across the scheduled 18 May 2021. tem 8 above, the Applicant submitted r Longdike Burn at Deadline 6 in Item 38

Longdike Burn at Deadline 6 in Item 38 esponse to Deadline 5 and 5a is supported Appendix iii – Indicative 6-042] and remains in discussions with aspect, with a further meeting

conjunction with the responses to Items

it is predicted that the Scheme would etailed within Annex A - Approach to the ns of Watercourses [REP2-010]. This 156m for Part B.

s of linear length of watercourse channel. el does not just simply relate to the length ad does take into account features such il modifications to the channel, such as esult in the loss of natural channel riparian vegetation). For example, on extension to the culvert is approximately rategy [REP5-022]). However, due to the annel, the loss of watercourse is

informed by the length of culvert or ad Engineering Drawings and Sections ans (Part A [APP-105 and REP2-010] Il imagery. As such, the calculated loss of asonably practicable with the information

incorrectly referred to watercourses is not the case. As detailed in the ne 4 Submissions [REP5-029] (response Environment Agency agree that it is not watercourse as compensation (the urses are being realigned). Therefore, blaced" and a ratio has not been applied. Applicant's Response to Deadline 5 and 5a Submissions

A1 in Northumberland: Morpeth to Ellingham

		7.	Given that it is not viable to creat absence of natural source of wat package of compensatory and in of watercourse as a result of the realigned watercourse channels environmental condition and biod improvements along the length of Order limits, retrospective install culvert of the River Lyne (Part A) replacement of the wooden baffl Burn (Part A) unaltered by the S feature and the provision of ripar The Applicant continues to engat regards to the loss of watercours Scheme. The position of the App been identified to mitigate and/of the Environment Agency of watercourses as a result of the S outside of the DCO boundaries, For clarity, whilst the Environment often replaced" at a ratio of at lear required through discussion with Scheme.
16	Ref. No.50 We do not agree that the 'retrospective installation of fish baffles on the existing culvert of the River Lyne (Part A), replacement of the wooden baffles within an existing culvert of Longdike Burn (Part A)' constitutes as compensation for the loss of watercourse and riparian habitat that will be realised by this scheme. It is a legal obligation to maintain fish passage under the Salmon and Fresh Water Fisheries Act.	2. 3. 4.	As detailed in the Applicant's Re [REP5-029] (response 54), both Agency agree that it is not viable as compensation (the exception realigned). The Applicant acknowledges that fish baffles do not directly offer li watercourse and riparian habitat forward as improvements as par (detailed above in response 15) The retrospective installation of f River Lyne (Part A) relates to a c unaffected by the Scheme (i.e. m extension). As such, the mainter would not be changed by the Sc installation of fish baffles represe watercourse that would not othe Scheme. Similarly, the replacement of the culvert of Longdike Burn (Part A) represents an improvement to a unaltered by the Scheme. The maintenance of fish passage changed by the Scheme, but the would increase the life span of the



ate new lengths of watercourse, in the ater, the Applicant has developed a improvement measures to offset the loss e Scheme. These include the design of Is (138m, Part A) to be better (in terms of odiversity value) than that lost, of Longdike Burn that falls within the allation of fish baffles on the existing A) that is not impacted by the Scheme, ffles within an existing culvert of Longdike Scheme to increase the life span of this arian planting along watercourses. age with the Environment Agency with rse as a result of culverting across the oplicant is that sufficient measures have or offset the assessed impacts, although ree. In their Deadline 5 response [REP5outlined that the culverting and loss of Scheme could be offset / compensated s, this remains under discussion. ent Agency state that tree planting "is east 3:1, such a ratio has not been th Northumberland County Council for the Response to Deadline 4 Submissions h the Applicant and the Environment le to create new lengths of watercourse n being where watercourses are being nat the measures regarding installation of like-for-like compensation for the loss of at. However, these measures are put

at. However, these measures are put art of the wider package of measures b) to offset the impacts of the Scheme. If fish baffles on the existing culvert of the a culvert beneath the existing A1 that is no proposal for removal, replacement or enance of fish passage within the culvert Scheme. The proposed retrospective sents an improvement measure along the erwise be secured in the absence of the

he wooden baffles within an existing A) with a more long-lasting material also a culvert that would otherwise be

ge within the culvert would not be ne replacement of the wooden baffles the feature thereby securing an

		improvement to current conditions. compliance with obligations with re an improvement.
Deadli	ne 5 Submission - 7.21 Applicant's Response to ExA's Further Written Questions [REP5-023]	
17	The Slope Stability and Southern Access works has the potential to have a locally significant impact on the River Coquet. The temporary river training works and the scour protection/rock armour will lead to the loss inparian habitat, will fix the river to the current planform, and will change local flow regimes and sediment dynamics. The work will also decouple the river from the surrounding slopes, and the sediment they supply. It is also likely that the changes to the channel dynamics extend beyond the footprint of the scheme.	 The Applicant disagrees that the sl works have the potential to have a Coquet with respect to geomorpho criteria for determining the magnitu 8-2 of Environmental Statement Ac Change Request [REP4-063] and I Southern Access Works for Chang which has been adapted from Tabl Geomorphology Assessment – Riv ES [APP-260]. When assessing the that the magnitude of impact on ge minor adverse magnitude, as a res extent of any changes. The Applicant does, however, agre southern access works would resu the River Coquet and Coquet Valle is unlikely to affect the integrity of t SSSI or its ecological function, due affected (in comparison to the scal predicted minor adverse impacts to Environmental Statement Addendu Request [REP4-063] and Table 8-8 Addendum: Southern Access Work However, the loss of riverbank hab significant effect (direct, permanen SSSI (paragraph 8.10.6, Environm Stabilisation Works for Change Re 7.10.6, Environmental Statement A for Change Request [REP4-064]). As noted in Table 9-7 of Environmental Stabilisation Works for Change Re Environmental Statement Addendu Change Request [REP4-064], cons training works could create a short sediment directly entering the char turbidity. The restriction of flow and may alter the sediment transport ca transport of larger material at lower Impacts are likely to be temporary construction and reinstatement wo degraded within the footprint of the impacts may be reversible following provided to reinstate features wher bedrock may not be reversible. The



ns. Highways England is already in regard to fish passage – this represents

e slope stabilisation and southern access a locally significant impact on the River hology. The Applicant sets out the nitude of impact in Table 9-2 and Table Addendum: Stabilisation Works for d Environmental Statement Addendum: nge Request [REP4-064] respectively, able 5-2 of Appendix 10.7

River Coquet Parameter 10 Part A of the the proposed works, it was determined geomorphology is considered to be of result of the localised nature and limited

gree that the slope stabilisation and sult in a significant effect with respect to alley SSSI. The loss of riverbank habitat of the River Coquet and Coquet Valley lue to the short length of bank habitat cale of the wider SSSI unit) and the s to geomorphology (Table 9-8, ndum: Stabilisation Works for Change 8-8, Environmental Statement orks for Change Request [REP4-064]). habitat is concluded to result in a ent Moderate adverse effect) to the immental Statement Addendum: Request [REP4-063] and paragraph it Addendum: Southern Access Works]).

mental Statement Addendum: Request [REP4-063] and Table 8-7 of adum: Southern Access Works for onstruction of the temporary river ort-term increase in the volume of fine hannel and consequently increase and reduced channel width at all flows a capability of the river, enabling the ver flows compared to the baseline. ry and reversible following completion of works. Bank and bed features would be he works, although some channel bed ving end of construction with mitigation here practicable, although any loss of The temporary river training works could A1 in Northumberland: Morpeth to Ellingham Applicant's Response to Deadline 5 and 5a Submissions

> alter the channel dynamics, which could result in increased erosion and sediment transport rates. Impacts may cease following end of construction. 4. As noted in Table 9-8 of Environmental Statement Addendum: Stabilisation Works for Change Request [REP4-063] and Table 8-8 of Environmental Statement Addendum: Southern Access Works for Change Request [REP4-064], the permanent scour protection may lead to a permanent but localised reduction in the availability of erodible sediment. Locally, the banks are not considered to be an important source of sediment for the channel. Some bank and near-bank bed features would be lost within the footprint of these works. The existing bank profile would be reinstated so alterations in channel cross section are anticipated to be minimal. Some alterations to channel roughness may occur. A reduction in roughness compared to the existing tree line bank may locally increase erosion rates. However, impacts are likely to be small, very localised to the channel margins and limited to the extent of the scour protection. The change in materials from which the bank is composed would, by design, reduce the channel's ability to adjust its position naturally and mature riparian vegetation would be lost. Increased run off may occur locally due to immature vegetation. 5. The form of the catchment is controlled by the underlying geology and topography, the dominance of bedrock suggests that the timescales for adjustment are over hundreds to thousands of years, with lateral adjustment of the channel and bed constrained by the valley form. Whilst the rock armour would act as a barrier to any lateral movement, over the 120 year design life of the proposals, any lateral movement, in the absence of the proposals, would likely be very limited, given the substantial period of time over which channel adjustments would occur. 6. The Applicant agrees that the north bank proposals may have the potential to decouple the slopes from the channel. However, the slope stabilisation works are intended to be localised in their extent to the slopes around the proposed north bank pier location and necessary for the integrity of the bridge pier foundations. There have been a number of valley side failures within the gorge, which have delivered sediment to the river. These failures will have historically supplied material to fluvial system and, at some locations in the gorge, continue to do so through the erosion of their toes. The change to planform caused by these failures is likely to be temporary and localised as fluvial action removes finer failed sediment. However, large boulders may continue to have an influence on local flow conditions over longer periods. Specifically at the location of the north bank works, a wide, relatively gently sloping area adds significant lag to input of sediment from failures of the upper valley side to channel, as it will rest in this gently sloping area until removed by

floodina.



7. For the south bank, the primary route for delivery of material from the valley side to the river is from rockfalls. It is anticipated that any rockfalls on the south bank could still reach the channel, as the slope is steeper compared to the north bank, with some being arrested by the presence of trees. On this basis, it is not anticipated that the south bank slope

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		roo 8. Th ch ou tra Sta Er Ch	ocesses would be decoupled from ck armour. The Applicant does not agree that annel response beyond the foot at above. The bank protection wo porphological behaviour of the re- ansfer zone (Table 9-8 of Environ abilisation Works for Change Re- ange Request [REP4-064]).
18	We do not share the Applicant's expectation that the information relating to the impacts of the changes associated with the Slope Stability and Southern Access works, will not change the findings of the geomorphological assessment and that there will be no significant effects as set out in Environmental Statement Addendum: stabilsation works – Rev 1 [Rep4-063] and Environmental Statement Addendum: southern access works – Rev 2 [Rep4-064]. Our position will be guided by the new work the Applicant is currently undertaking.	no sig Co 2. Th dy hy (Re as Sta Er Ch the vio 3. In the are Vio 3. In the sch Er Ch the vio 3. In the sch Er Ch the vio 4. In Res Sta Sta Vio 4. In Res Sta Vio 4. In Res Sta Vio 8. In Res Sta Sta Vio 8. In Res Sta Vio 8. In Res Sta Vio Res Sta Vio 8. In Res Sta Vio 8. In Res Sta Vio 8. In Res Sta Vio 8. In Res Sta Vio 8. In In Res Sta Vio 8. In Res Sta Vio Res Sta Vio Res Sta Vio Res Sta Sta Vio Res Vio Res Sta Sta Sta Sta Vio Res Sta Sta Sta Sta Sta Sta Sta Sta Sta Sta	a set out in response 17 above, of conclude significant effects with opuet Valley SSSI. The Applicant has now provided to mamics assessment, completed of raulic modelling, submitted as iver Coquet Fluvial Geomorpho efference 6.47)). This allows for sessment presented in Environ abilisation Works for Change R nvironmental Statement Addend hange Request [REP4-064] (Ch e spatial extents and changes in cinity of the proposed works. the Scheme construction scena e extent and magnitude of the a e as reported in Environmental orks for Change Request [REP4-064] dendum: Southern Access Wo th the exceptions of the extent of e temporary works and the incre- diment entrainment potential. H anges from baseline were idem invironmental Statement Addend equest [REP4-063] and Table 8 atement Addendum: Southern A EP4-064] and, with the suggest gnificantly affect features of inte- ich, the overriding consideration fect of the Scheme in the constru- torks are of relatively short durat e reversible. the Scheme operational scenar- atement Addendum: Stabilisation of the Scheme in the constru- fect of the Scheme in the constru- or fact of the Scheme in the constru- fect of the Scheme in the constru- ter atement Addendum: Stabilisation attement Addendum: Stabilisation attement Addendum: Stabilisation attement Adden



from the channel by the presence of

at the proposals would impact the ootprint of the works for the reasons set works are not considered to change the reach, or the function as a sediment ronmental Statement Addendum: Request [REP4-063] and Table 8-8 of ndum: Southern Access Works for

e, whilst the Applicant's assessments do with respect to geomorphology, a ith respect to the River Coquet and

d the full quantitative geomorphological ed with consideration of the outputs from as part of the Examination at Deadline 7 hology Assessment (Document or verification of the results and onmental Statement Addendum: Request [REP4-063] (Chapter 9) and ndum: Southern Access Works for Chapter 8) and provides further detail on is in flow and sediment behaviours in the

nario, the assessment concludes that anticipated changes from the baseline al Statement Addendum: Stabilisation P4-063] and Environmental Statement /orks for Change Request [REP4-064], of the 'backwater' effect as a result of creases in stream power and modelled However, the potential for these entified qualitatively in 6.38 ndum: Stabilisation Works for Change 8-7 and Table 8-8 of 6.40 Environmental Access Works for Change Request sted mitigation, are not considered to terest such as the mid-channel bar. As ons in determining the significance of struction scenario stand, i.e. that the ation and the effects on fluvial processes

hario, the assessment concludes that the re as reported in Environmental ation Works for Change Request [REP4hent Addendum: Southern Access Works 4], with notable change from the baseline A1 in Northumberland: Morpeth to Ellingham

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		being confined to the margins of Scheme and immediately downs 5. The Magnitude of Impact for the Southern Access Works therefo (Minor adverse) in Table 9-7 and Statement Addendum: Stabilisat 063] and Table 8-7 and Table 8- Addendum: Southern Access W and therefore the Significance o remains Slight (not significant).
Deadlin	e 5 Submission - 7.23 Applicant's Response to Procedural Decision on Changes to the Application	[REP5-032]
19	The Flood Risk Assessment must be updated to reflect the Hydraulic Modelling outputs. Without an update to the FRA it will be difficult to assess the flood risk impacts from the proposed changes. The EA's review of the hydraulic model will be limited to whether the model is "Fit for purpose'.	 A Flood Risk Assessment Adden Addendum – River Coquet [REF Examination at Deadline 7. This concludes that with the exc levels (compared to that previou crossing, there is no change in o as a consequence of the new pi protection system. With regards to the construction identified a hitherto unidentified new crossing. Whilst this impact level of 0.144m in the vicinity of Farm) during the 0.1% AEP (100 change the flood risk to this rece 3.244m above the 0.1% AEP (100 The impact of this increase in flo already subjected to extensive fly year) event.
Deadlin	e 5 Submission - Change Request - 6.28 Biodiversity No Net Loss Assessment for the Scheme (Clea	an) - Rev 3 [REP5-038]
20	We would welcome a package of works that will provide appropriate compensation for the loss of watercourses. We would encourage opportunities to compensate for this loss with equivalent river based units. Where river units or length are lost, common compensation measures could include the renaturalising and re-meandering of heavily modified and straightened watercourses.	The Applicant continues to engage with the loss of watercourse as a result of culvertine Applicant is that sufficient measures have assessed impacts, although the Environme Agency Deadline 5 Submission [REP5-044 culverting and loss of watercourses as a re compensated outside of the Order limits, the
Deadlin	e 5 Submission - Change Request - 6.45 Borrow Pit Dewatering Plan [REP5-040]	
21	The information outlined in this document addresses our previous comments. The Applicant may need a permit from the EA for dewatering activities.	 A groundwater dewatering perm phase. Commitment EA-W1 of the Outli been updated at Deadline 7 to ir licence (for dewatering activities discharge) will be required for th
Deadlin	e 5 Submission - 7.6C Statement of Common Ground with Environment Agency - Rev 2 [REP5-017]	



f the channel within the extent of the stream.

e both the Stabilisation Works and ore remains the same as that presented ad Table 9-8 of 6.38 Environmental ation Works for Change Request [REP4--8 of 6.40 Environmental Statement /orks for Change Request [REP4-064], of Effect for all geomorphological impacts

endum (Flood Risk Assessment P1-067]) has been submitted to the

ception of a localised decrease in flood usly assessed) in the vicinity of the new operational flood risk to local receptors ier positions and rock armour scour

n phase, the hydraulic model has impact on flood levels upstream of the t results in a maximum increase in flood receptor A (Otter House / Shothaugh 00-year) event, this is insufficient to eptor in real terms which remains 000-year) flood level during construction. ood level is seen on farmland which is flooding during the 0.1% AEP (1000-

the Environment Agency with regards to the and across the Scheme. The position of the been identified to mitigate and/or offset the ent Agency disagree. In the Environment 4], the Environment Agency outlined that the esult of the Scheme could be offset / this remains under discussion.

nit will be applied for prior to construction

ine CEMP [REP6 025 and 026] has nclude: "A water resources abstraction and Environmental Permit (for water he Scheme."

22	We are working with the Applicant to address the issues outlined in this letter and in our previous correspondence.	 The Applicant remains committed Environment Agency to address the meeting scheduled on 18 May 202
Deadl	ne 5 Submission - 3.1 draft Development Consent Order (Clean) - Rev 6 [REP5-005]	
23	It is our understanding that the Applicant does not seek to disapply any of the EA's consenting regimes the Protective Provisions in the draft DCO are acceptable.	 It is correct that the EA consenting hence no changes are required to DCO.
EA W	itten Representations	
Deadl	ne 5 Submission - 7.3 Updated Outline Construction Environmental Management Plan (Tracked) - Rev	v 4a [REP5-013]
Gener	al Comments	
24	It is unclear what the hierarchy is between the Updated Outline Construction Environmental Management Plan (CEMP) and 7.9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022] as there is a significant degree of overlap between the two documents. Both documents independently contain important details that are not apparent in the other document. We would welcome clarification on this.	 This comment is repeated above. of this document.
25	Within the scheme wide section of the outline CEMP, we request that specific acknowledgement of and the need for mitigation and compensation for the loss and damage/disturbance to the many watercourses crossed by the scheme is clearly stated. This needs to be independent of, but as detailed as and on a par with actions like S-B1, S-B2 or S-B20.	 This comment is repeated abo Item 2 of this document.
26	We are still assessing whether the measures presented to compensate and mitigate for the impact of the scheme on the crossed watercourses is adequate. Aside from the Water Framework Directive, the EA has legal duties under the Environment Act 1995, the Water Environment (Water Framework Directive) Regulations 2017 and the Natural Environment and Rural Communities Act 2006 to ensure that watercourses are protected and enhanced for the benefit of present and future generations.	 This comment is repeated abo Item 3 of this document. Furthe legal duties of the Environmen
27	The current package of compensatory works includes 1240m (a combined total of riparian planting outlined in .9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022]) of riparian planting to compensate for the loss of 427m of watercourse. The loss of 427m is considered a minimum figure as it only covers the length of the culvert and does not cover the easement either side of the new or extended crossings. Furthermore, it does not cover any vegetation removal and bank re-profiling that may be required to allow construction to take place. Nor does not consider the influence of the culvert on river processes beyond the footprint of the structure itself.	 This comment is repeated above. 5, 8, 13 and 15 of this document.
28	Watercourses such as Floodgate Burn or the River Lyne where substantial riparian woodland already exists, the loss and impact is not clearly represented and is expected to be much larger than 427m. Much of the claimed riparian planting is where existing riparian woodland already exists on these burns. The Applicant must clearly demonstrate not only the loss of watercourse due to culverting, but also the length of existing riparian habitat lost.	 This comment is repeated above. 5 and 6 of this document. Noting t the riparian planting contributes to channel will be submitted at Dead
29	We require for the mitigation measures to be clearly stated, a commitment to the establishment of viable, sustainable natural beds within the key culverts and a comprehensive package of compensation measures. This should be clearly marked on a relatable mitigation and compensation plan, and should not be solely dependent on riparian planting.	 With regard to the natural beds wi currently considering the feasibility natural beds within the culverts. H the depth of the natural beds has



ed to ongoing liaison with the the outstanding issues and has a 2021 to continue the discussions.

ng regimes are not disapplied and to the protective provisions in the draft

e. A response is provided against Item 1

oove. A response is provided against

bove. A response is provided against ther, the Applicant acknowledges the pent Agency.

e. A response is provided against Items

e. A response is provided against Items g that a set of plans demonstrating how to the compensation for the loss of adline 8.

within the culverts the Applicant is ility of incorporating a greater depth of . However, the Applicant considers that as been designed in line with the A1 in Northumberland: Morpeth to Ellingham

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appropriate guidance, as detailed in the Applicants Response to Deadline 5 submissions in Table 1-1, Item 18 at Deadline 6 [REP6-040].

In relation to the culverts, the Applicant previously responded to this question in response 47 of Table 1-4 of REP5-029 which states:

- Deadline 5 [REP5-022].
- Environment Agency.

- - Carbon neutrality;
 - Potential for the natural bed to silt up;
 - Impacts on culvert size;
 - Construction impacts on the watercourses; and

• Potential for changes in flow conveyance / flood risk. 7. The inclusion of a greater depth of natural bed than currently proposed would require a greater amount of embedded carbon as a result of a larger culvert. The larger culvert would result in greater



1. The Scheme has been developed over a number of years, during which time the best practise guidance has been updated, the original design was undertaken in accordance with The CIRIA Culvert Design and Operation Guide (C689). However, in the intervening period this has been superseded by the CIRIA Culvert, Screen and Outfall Manual (C786). It should be considered that the best practise guidance has been developed to enable the safe passage of coarse fish, brown trout, sea trout and salmon. These would not be present in the vast majority of the watercourses crossed by the Scheme and therefore not directly relevant. Full justification of this on a watercourse by watercourse approach is provided in the Culvert Mitigation Strategy [REP1-066], as revised and submitted as part of

2. The standards for the design of the Scheme, at the time of design, was HA107/04 Design of Culvert and Outfall Details, this requires a bed level of 150mm or 75mm for a ditch culvert. It is this standard which was applied in the design and previously discussed with the

3. For Part A this was on 09/01/18, during which the Environment Agency agreed with the design approach of using the CIRIA Culvert Design and Operation Guide (C689). A further meeting was held with the Environment Agency on 05/09/18 during which details on the proposed bed levels and fish passage were discussed and agreed. 4. For Part B no specific meeting was held with the Environment Agency, and instead the Applicant adopted the same principles for Part B as there are only three watercourses here, which can accommodate a natural bed and all of which are culvert extensions. 5. The Applicant considers that the four broad principles outlined by the Environment Agency are not directly applicable to all the culverts impacted by the Scheme, for the reasons outlined below. This is because in a number of the watercourses there is insufficient water flow to support fish or other aquatic organisms for the majority of the year, these have been identified as ditches, it is these water features in which the applicant considers the four principles do not apply. 6. The inclusion or not of a natural bed within the new or extended culverts has taken many aspects into consideration, these include:

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		 bed and channel disturbance a works. Full justification of this of approach is provided in the Cuas revised and submitted as particles. 1. The Applicant therefore considers natural bed has been provided with with the Environment Agency. What considered that any other aquatic through the culverts in much the s section of channel. 2. As detailed in the responses to Ite
		 the Applicant considers that a con measures is being provided. 3. As outlined in the response to Iten watercourse specific mitigation an at Deadline 8.
30	The above comments are also applicable to 7.9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022].	 This is a repeat of previous questi Outline CEMP [REP6-025 and 020 the Culvert Mitigation Strategy [RE to Item 1 of this document.
Speci	ic comments on individual actions	
31	Otters We welcome the inclusion of additional measures within the CEMP regarding otters. However, mitigation measures for commuting otters needs to be incorporated into the outline CEMP.	 The response provided by the Env Applicant to relate to Part B only. As detailed in Appendix F Otter Po following ISH3, the Applicant held Agency on 23 and 30 April 2021 to presence of otter. Further possibl study area for Part B was provided meeting on 30 April, and the Appli potential need for fencing along Pa forward, the fencing would be sec CEMP.
32	Action S-GS4 This does not align with the updated measures in S-W1 in relation to the temporary surface water drainage strategy.	 The Applicant considers that the E realised that these two measures Scheme and therefore, there is no align. S-GS4 of the Outline CEMP [REP 7) relates to the operational draina the surface water drainage strateg will be prepared by the Main contr
33	Actions S-W1 or S-W8 We would like to see reference made to the requirement to report any pollution incidents to the water environment to the EA's Pollution Incident Hotline (0800 80 70 60).	 Detail added to measure S-W8 of 026] (updated and submitted at De 2. 'Should any pollution incidents to t be reported to the Environment Ag 80 70 60)'



e as a result of increased construction s on a watercourse by watercourse Culvert Mitigation Strategy [REP1-066], part of Deadline 5 [REP5-022].

rs that the most appropriate depth of within the design, as previously agreed Where a natural bed is not proposed, it is ic organisms would be conveyed a same manner as a relatively straight

tems 5, 8, 13 and 15 of this document, omprehensive package of compensation

ems 5 and 6 of this document, a and compensation plan will be submitted

stions given the relationship between the 26] (and as updated at Deadline 7) and REP5-022] as detailed in the response

nvironment Agency is understood by the

Position Statement [REP6-048], Id discussions with the Environment to explore the evidence for the ble evidence of otter adjacent to the ed by the Environment Agency at the blicant is considering this and the Part B at key crossing locations. If taken ecured by amendment to the Outline

Environment Agency have not fully s relate to different phases of the no requirement for the two measures to

P6-025 and 026] (submitted at Deadline nage scenario, whereas S-W1 relates to egy during construction. This strategy <u>htractor at the start of construction.</u> of the Outline CEMP [REP6-025 and Deadline 7). The detail added states: o the water environment occur, they will Agency Pollution Incident Hotline (0800

34	Action S-W1, (b),	1. Measure SW-1(b) of the Outline C
	We welcome the statement to use seeded biodegradable fibre matting encourage re-vegetation of disturbed watercourse banks. This action should be updated to include a commitment to consider and use green (soft) and hybrid engineering solutions as alternatives to hard solutions for erosion control, scour management, wing walls etc.	 updated to reflect this request for the states (with the new text underline) 1. The use of seeded biodegradable fibre after works on, or near, the banks, and (soft) and hybrid engineering solutions erosion control, scour management, and larger watercourses such as: The River Burn, Longdike Burn and the River Con Burn and its tributaries and Shippertor
35	 Action S-W6 We welcome the commitment to the inclusion of gravel beds throughout the length of the new culverts. This commitment should be further strengthened to include minimum natural bed depths and minimum water depths (to support migratory fish species) for the new culverts. The Scottish Environmental Protection Agency's Good Practice guide for River Crossings provides a useful series of recommendations reflecting different sizes of culverts: For culverts less than 1.2 m diameter or height (internal height) the invert should be buried at least 15 cm below the natural bed level. For culverts 1.2 - 1.8 m diameter or height (internal height) the invert should be buried at least 20 cm below the natural bed level. For culverts greater than 1.8 m diameter or height (internal height) the invert should be buried at least 30 cm below the natural bed level. CIRIA's Culvert, Screen and Outfall Manual is slightly more rigid and states that the depth of a natural bed is between 300-600mm. 	 As discussed in the response to Ite depth of the natural beds has been guidance, as detailed in the Applica submissions in Table 1-1, Item 18 a
36		
37	We welcome the inclusion of a hydromorphologist for the detailed design of the culverts. However, table 2.1 (environmental consultant – designer) implies a generalist role. This table should be updated to reflect the use of a hydromorphologist.	1. Table 2-1 of the Outline CEMP [R at Deadline 7 with a new row whic hydromorphologist. S-W6 of the O been updated at Deadline 7 to refe
38	Action B-B5 a) and b)	1. The Applicant notes the Environm
	We welcome the commitments outlined in Action B-B5 a) and b).	
39	A-B7 and A-W7 The design of the new channel should be based around the predicated discharges rather than existing conditions. In accordance with paragraphs 5.23 and 5.33 of the National Policy Statement for National Networks (2014), the design objectives should maximise the opportunities presented through the design of the new channel. The aim, as far as possible, accepting the local constraints, should be to re-establish the natural functioning of the channel, through naturalised flows, sediment transfer, patterns of erosion and deposition. Measures such as these will provide the most sustainable long term solutions delivering multiple benefits including climate resilience, sustainable flood management, improved biodiversity, reduced maintenance costs.	 It is assumed that by predicated dimean the predicted future design frequently taken to be the 1 in 100 change). The Applicant does not agree that around the future design flows as flood regime. Notwithstanding this potential to contain the flood flows design. This is secured via change both A-B7 and A-W7 of the Outline (updated and submitted at Deadline)
		While A-B7 of the Outline CEMP [REP6-025]



CEMP [REP6-025 and 026] has been or the Deadline 7 submission. This now ned):

bre matting to encourage re-vegetation and consideration of the use of green ns as alternatives to hard solutions for and wing walls. This is applicable to the iver Lyne, Fenrother Burn, Earsdon Coquet in relation to Part A, and Denwick fon Burn in relation to Part B.

Item 29, the Applicant considers that the en designed in line with the appropriate icants Response to Deadline 5 8 at Deadline 6 [REP6-040].

REP6-025 and 026] has been updated ich outlines the role of the Outline CEMP [REP6-025 and 026] has eference the amended Table 2-1. ment Agency's position.

discharges the Environment Agency n flows (which in this instance is 00 year plus an allowance for climate

at the channel should be designed is this could result in a change to the his consideration will be given to the ws within the channel during detailed liges in wording of the Outline CEMP for ine CEMP [REP6-025 and 026] Iline 7).

25 and 026] (updated and submitted at bacted watercourses across Part A, A-W7

		relates to the tributary of the Fenrother Burr ditch and is not considered to be a watercou the Assessment of Losses and Gains of Wa no natural functioning of this watercourse to
40	A-W2 Given the nature of the upstream catchment and the size of the culverts under the A1 (900mm diameter), the proposed culverts appear significantly over sized. Consideration should be given to downsizing these 2 culverts and reducing the depth of any natural bed to 150mm. This would reduce the scheme's carbon footprint.	 A-W2 of the Outline CEMP [REP at Deadline 7) relates to the Cotti a rectangular culvert has been in the smallest standard precast RC required performance criteria (flo design of this culvert must also w shallow depth of cover. Alternativ using precast RC and High Dens would require multiple pipes with surround thus increasing the emb length of culverted watercourse.
41	A-W6 (Priest's Bridge Culvert) There is insufficient information to determine whether the design of this culvert is appropriate to address the ecological requirements of the River Lyne. The River Lyne is morphologically active with sufficient energy for natural adjustment, localised sinuosity and bank erosion and sediment deposition processes operating.	 The Environment Agency have needed. The Environment Agency have needed. The Applicant to address to addr
42	The existing culvert appears to be hindrance to fish passage due to the wide shallow flat bed which will promote high flow velocities. The inclusion of baffles within this structure is welcomed, and will help mitigate the fish passage issues associated with this structure.	 The Applicant notes the Environmetrospective installation of fish be River Lyne (not impacted by the structure Q100+CC = 1.29m/s, Low flows of This information was provided to invert would reduce velocities rat increase in the wetted perimeter,



Irn. The Fenrother Burn is a field boundary ourse as set out in Annex A - Approach to Vatercourses [REP2-010], as such there is to reinstate.

P6-025 and 026] (updated and submitted tting Burn Culvert only (ref 1.4) for which incorporated within the design. This is RC unit which can be used to meet the low conveyance and freeflow). The withstand the surcharge loading with a tive piped solutions were considered nsity Polyethylene (HDPE) however this th a mass or reinforced concrete mbodied carbon and introducing a larger

not provided sufficient information to s their overall concerns, however, specific 2 and 43 below. This will be discussed with the Applicant and the Environment urther detail provided at Deadline 8.

nment Agency's agreement that the baffles within the existing culvert of the e Scheme) will help improve fish passage cture. The velocities in the culvert for s Q10 = 0.87m/s and Q90 = 0.346m/s. o the EA during consultation. A wide ather than increase them due to an r, this will aid the fish passage.

	Manual and provides design criteria for flow velocities and water depths through culverts. Table 9.3 - CIRIA's Culvert, Screen and Outfall Manual Table 9.3 Design criteria for culverts to enable fish to pass (from Armstrong et al, 2016)							within this culvert (Priest's Bridge 200mm of natural bed, with the r between 250-300mm. The Struc
	Parameter		Coarse fish roach, dace, chub etc smaller than 250 mm	Brown trout and coarse fish up to 250 mm and large coarse fish 250 - 500 mm	Sea trout, brown trout up to 250 – 500 mm and larger coarse fish greater than 500 mm	Salmon and large sea trout greater than 500 mm	2.	Sections [REP5-004] will be upda This demonstrates that for the sn 10 years) the culvert will remain p fish (or larger species), for larger to pass upstream for the relativel
	Maximum flow	Length <20 m	1.1 m/s	1.25 m/s	1.6 m/s	2.5 m/s		hydrograph.
	velocity through the	Length 20 m to 30 m	0.8 m/s	1.0 m/s	1.5 m/s	2.0 m/s		
	culvert (m/s) (a, b, c)	Length >30 m	0.5 m/s	0.8 m/s	1.25 m/s	1.75 m/s		
	Minimum water dept	h in culvert (d)	100 mm	100 mm	150 mm	300 mm		
	Maximum water leve	l drop at outlet (e)	100 mm	200 mm	300 mm	300 mm		
	Minimum gap betwee	en screen bars	100 mm	100 mm trout 150 mm coarse fish	150 mm	200 mm		
	c These velocities sho	depth of 100-150m	f the passage design im flow velocity im. Given the I	flow range. of 0.8 m/s during ength of the culve	ert, and that the Ri	ver Lyne is		
46	A-W7 (Fenrother B	Burn)					1.	This comment is repeated above
	A-w/ (Fenrother Burn) The design of the new channel should be based around the predicated discharges rather than existing conditions. The design objectives should maximise the ecological opportunities presented through the design of the new channel. The aim, as far as possible, accepting the local constraints, should be to re- establish the natural functioning of the channel, through naturalised flows, sediment transfer, patterns of erosion and deposition. Measures such as these will provide the most sustainable long term solutions delivering multiple benefits including climate resilience, sustainable flood management, improved biodiversity, reduced maintenance costs.					3.	39 of this document. The Scheme requires the re-align Burn, not the main channel, as in Instead, these tributaries are ess ephemeral (i.e. non permanently not designed as watercourses in of Losses and Gains of Watercour The Applicant considers that these better form than their current state necessary to a field boundary dite Furthermore, returning a field boundary before they were created to artific not be practical or desirable.	



 As discussed in Item 29 of this document, the depth of natural bed included within each culvert as been determined in accordance with the best practise available at the time of the design. The low flow channel within this culvert (Priest's Bridge Culvert) has been designed to have 200mm of natural bed, with the natural bed depths beyond this being between 250-300mm. The Structures and Engineering Drawings and Sections [REP5-004] will be updated at Deadline 8 to reflect this design.
 This demonstrates that for the small frequent events (i.e. less than 1 in 10 years) the culvert will remain passable for brown trout and coarse fish (or larger species), for larger flow events, the fish would not be able to pass upstream for the relatively short duration of the peak of the

/e. A response is provided against Item

ignment of tributaries of the Fenrother inferred by the Environment Agency. ssentially relatively straight uniform, tly flowing) field boundary ditches and are in Annex A - Approach to the Assessment courses [REP2-010]. hese channels are being recreated in a tatus and further enhancements are not ditch. boundary ditch to a natural state (i.e. tificially improve the land drainage) would

47	A-W8 (North and South Fenrother Burn) Given the nature of the upstream catchment and the size of the existing culvert under the A1 (500mm diameter), the proposed culverts appear significantly over sized (1.5x1.25m twin box and 3x1.75m box). Could these 2 culverts be downsized given the limited scope for fish to be present the depth of any natural bed could be reduced to 150mm?	 5. The Scheme has a complex and inhave been worked through by the ensure that every opportunity is a environment and habitat, whilst be landowners and their associated in a landowners and their associated in the response refers to structure in Mitigation Strategy [REP5-022] and Drawings and Sections [REP5-000] Rectangular culverts have been incorporate (structure reference 5.2) or significant (struct would lead to uneven loading on the culvert the smallest standard precast RC unit which performance criteria (flow conveyance and f also withstand the surcharge loading. Altern using precast RC and High Density Polyethy multiple pipes with a mass or reinforced con embodied carbon and introducing a larger leading.
48	A-W9 (Causey Park Culvert) The photographs of the burn suggest flows sufficient to support fish, while the planform upstream and downstream of Causey Park suggest a morphologically active channel with sufficient energy for natural adjustment, localised sinuosity. We recommend the inclusion of a low flow channel within the culvert designed using the principles outlined for A-W6.	The aquatic habitat assessment undertaken watercourse was unsuitable for fish surveys (Appendix 9.3 Aquatic Ecology Survey Repo is no requirement for a low flow channel to a
49	A-W10 (New Houses Farm Culvert) This action refers to the re-aligned channel and not the culverts. It needs to be re-worded to reflect this. Design principle for the new channel should align with principles outlined in A-W7 and A-B7. Given the Applicant's ambition to reduce the levels of embedded carbon, consideration should be given to the use of alternative materials such as polyethylene (high density) [HDPE] for this structures.	 The wording has been updated w 026] submitted at Deadline 7 to re channel of the Tributary of Earsdo The Applicant does not agree tha around the predicted discharges a flood regime. Notwithstanding this potential to contain the flood flows design. This is secured via chang CEMP [REP6-025 and 026] (upda A precast concrete pipe has been culvert conveys flows beneath a la of cover and surcharge loading fro culvert a was considered but disc and deformation due to surcharge
50	A-W12 (Earsdon Burn culvert) Given that this culvert is on a farm access track, it is unclear why the additional cost of a mammal ledge is considered necessary for this structure.	As advised by the Environment Agency early dated 14 June 2018), "mammal passage an culverts and watercourses…" The Applicant is located beneath a new access track and t vehicle collision on the track is significant re- Earsdon Burn Culvert to the Causey Park C beneath the new offline section of Part A, it to facilitate mammal passage through both of beneath roads (either the farm track or A1).



d numerous set of constraints, which he multidisciplinary design team to sought to improve the water balancing the impacts on the adjacent d uses.

e references used within The Culvert and the Structures and Engineering 104].

ted within the design due to a shallow acture reference 5.3) depth of cover which rt from the surround. The size proposed is ch can be used to meet the required d freeflow). The design of this culvert must mative piped solutions were considered hylene (HDPE) however this would require poncrete surround thus increasing the length of culverted watercourse.

en for Earsdon Burn determined that the ys, and therefore unlikely to support fish port Part A [APP-229]) and therefore, there o aid fish passage.

within the Outline CEMP [REP6-025 and reflect that this applies to the realigned don Burn and not the culverts. hat the channel should be designed is as this could result in a change to the his, consideration will be given to the wis within the channel during detailed higes in wording of A-W10 in the Outline dated and submitted at Deadline 7). In specified in this location as this a landform resulting in a significant depth from farm traffic. An alternative HDPE secounted due to anticipated ovalistation ge.

arly on in the design process (within an email and mitigation should be considered for all ant acknowledges that Earsdon Burn Culvert d therefore the risk to otter as a result of reduced. However, given the proximity of Culvert to the northwest, which passes it was considered appropriate and beneficial h culverts to maintain movement corridors).

51	This action also refers to comments made for A-W9. Unless the Applicant believes that a smaller culvert can be used as this structure is upstream of the New Houses Farm tributary, we recommend that this action is renumbered A-W11 to reflect the south to north trend.	The Applicant has renumbered A-W11 and 026] (as updated at Deadline 7) to ensure e parties during the next phases of the Schen Agency.
52	A-W11 (Bockenfield Bridge/Culvert) We require justification for the need of scour protection, whether it can be designed out, and whether green or hybrid solutions can be used as an alternative to a hard engineered solution.	 The Applicant considers that this suitably secured via the update to [REP6-025 and 026] (updated an discussed in Item 34 of this docu
53	It is unclear why the mitigation measures for the Burgham Culvert and the proposals for the riparian improvements to the Longdike are not included in the outline CEMP. For the Burgham Culvert it is recommended that an option to raise water levels above the lip of the downstream culvert are also included in the package of works to improve fish access. This will benefit species such as eel and lamprey, will broaden the window when migration is possible, and will be a more robust and long term solution.	 The measures for the Longdike B [REP6-025 and 026] (updated an B40 as identified by the Environm detail will be added to the Outline discussion over the design for this Agency, likely to be at Deadline 8 2021. The only changes to the Burghan existing headwalls. The length of passage will not be adversely imp mitigation measures are required outlet cannot be lowered to align engineering works that would be passage is proposed within the cu existing wooden baffles with more lifespan of the feature and mainta (longer lasting material). This imp of the Outline CEMP [REP6-025 a 7).
54	A-B30 This needs to be amended to reflect the comments made above.	 As discussed in the response to the depth of the natural beds has appropriate guidance, as detailed Deadline 5 submissions in Table Therefore, there is no requiremendetails the depth of natural beds w currently considering the feasibili natural beds within the culverts.
55	Actions A-B40 This refers to compensation due to the direct loss of ~35m of the Longdike Burn due to the Bockenfield Culvert (12) extension. It is understood that improvements will be delivered on a ~850m section of the Longdike Burn within the DCO boundary. Although we welcome compensation for the direct loss of ~35m of watercourse we request further details on this proposal.	 As detailed in the response to Ite information on the proposals for L of Table 1-1 of the Applicant's Re Submissions [REP6-040] which is Longdike Burn Proposals [REP6- the Environment Agency on this a scheduled for 18 May 2021.
56	Improvements are described as 'nutrient management measures to address adverse impacts of run-off from agricultural land, aquatic planting and bankside stabilisation'. Can the Applicant demonstrate that nutrients from agricultural land are impacting the Longdike Burn at the prosed improvement site? Is there an identified source and point of entry to the watercourse that needs to be addressed? What forms of	 As detailed in the response to information on the proposals f 38 of Table 1-1 of the Applica Submissions [REP6-040] white Indicative Longdike Burn Prop



d A-W12 in the Outline CEMP [REP-025 and ease of reading and interpretation by all eme as suggested by the Environment

is is a detailed design issue and is now to S-W1, (b) of the Outline CEMP and submitted at Deadline 7) as sument.

Burn are included in the Outline CEMP and submitted at Deadline 7) under Ament Agency in Item 55 below. Further he CEMP following the conclusion of the his watercourse with the Environment 8, following the meeting on 18 May

am Culvert (10.1) are modifications to of the culvert and its permeability to fish npacted by the Scheme. As such, no ed. The existing (unchanged) culvert n with channel bed due to extent of e required. An improvement for fish culvert, by the replacement of the ore permanent structures to improve the stain fish passage in the long-term nprovement is secured by measure A-B9 5 and 026] (and as updated at Deadline

b Item 29, the Applicant considers that as been designed in line with the ed in the Applicants Response to e 1-1, Item 18 at Deadline 6 [REP6-040]. ent to change this measure, which which is to be provided in the culverts. within the culverts the Applicant is ility of incorporating a greater depth of

tem 8 above, the Applicant submitted r Longdike Burn at Deadline 6 in Item 38 Response to Deadline 5 and 5a is supported by Appendix iii – Indicative 6-042] and remains in discussions with s aspect, with a further meeting

to Item 8 above, the Applicant submitted s for Longdike Burn at Deadline 6 in Item cant's Response to Deadline 5 and 5a nich is supported by Appendix iii – oposals [REP6-042] and remains in Applicant's Response to Deadline 5 and 5a Submissions

	bank stabilisation activities are proposed? It is our understanding that further evidence and clarification regarding the on Longdike Burn will be submitted at Deadline 7.	 discussions with the Environm further meeting scheduled for 2. The measures currently propo include nutrient management of include: Riparian woodland planting (subject native tree species) Enhancements to an existing berr wetland tolerant / amphibious veg Aquatic macrophyte planting to con- enhancements to the berm feature Understorey planting (this may be reach) this could include amphibious
Deadli	ne 5 Submission - 7.22 Applicant's Response to Deadline 4 Submissions [REP5-029]	
57	Ref. No. 1 Phase 1 habitat codes are not used when using the Defra Biodiversity Metric as they require UK Habitat Classification, meaning that the Phase 1 for Dry Ditch must have been converted into a UK Habitat Classification code. The UK Habitat Classification does not have a code / habitat type for Dry Ditch. It is also noted that table 2-2 – Corresponding JNCC Phase 1 Habitat and UK Habitat Classifications within 6.28 Biodiversity No Net Loss Assessment for the Scheme (Clean) for Change Request [REP5-038] omits this detail. We would welcome clarity of what was used for the calculations and if the value as a linear feature has been captured.	 This comment is repeated above. of this document.
58	 Ref. No 2 Woodland planting along watercourses should only be recognised as compensation for the loss of watercourse and riparian habitat if it is appropriate compensation. Due to the limitations of the DCO boundary, it is unclear what the benefits of tree planting along watercourses within the DCO would deliver. Therefore, consideration should be given to the inclusion of compensation being delivered outside the DCO boundary. This would enable suitable and potential compensation for the loss of watercourse to be delivered. This is also in accordance with paragraph 5.25 of the National Policy Statement for National Networks. 	 The Applicant considers that ripar scheme. This is a repeat of submit 15 of this document.
59	According to the current package of compensatory works detailed within 7.9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022], a total of 1240m of riparian planting is included to compensate for the loss of 427m of watercourse. The figure of 427m only captures the length of the culvert, and does not take into account the easement either side of the new or extended bridges that will require being cleared of all vegetation and possibly any bank features to allow construction to take place. As such, on watercourses such as Floodgate Burn or the River Lyne where substantial riparian woodland already exists, the loss and impact is not clearly represented and is expected to be much larger than 427m. Furthermore, much of the claimed riparian planting is either where existing riparian woodland already exists on these burns and as such, it is unclear how much of the 1240m is to replace what is to be lost due to the scheme and what is compensatory.	 This comment is repeated above. 5 and 6 of this document. Noting the riparian planting contributes to channel will be submitted at Dead
60	The Applicant must clearly demonstrate not only the loss of watercourse due to culverting, but also the length of existing riparian habitat lost to ensure it is clear where the riparian planting is compensation for loss of existing riparian, or compensation for the loss of watercourses through culverting. It is also worth	 This comment is repeated above. 5 and 6 of this document. Noting the second secon



nment Agency on this aspect, with a or 18 May 2021. posed along Longdike Burn do not nt or bank stabilisation measures but

pject to detailed design this could include

- erm with suitable planting particularly egetation.
- compliment the riparian planting and ure.
- be beneficial along other parts of the bious or reeds or rushes.

ve. A response is provided against Item 4

parian planting is appropriate for this missions contained in items 5, 8, 13 and

ve. A response is provided against Items of that a set of plans demonstrating how to the compensation for the loss of adline 8.

e. A response is provided against Items g that a set of plans demonstrating how

	noting that any replaced habitat is often provided at a greater than 1:1 ratio to account for the impacts of the scheme and the time taken for the habitat to reach the same biodiversity value as what has been lost.	the riparian planting contributes to channel will be submitted at Deac
61	As outlined in .9.1.1 Culvert Mitigation Strategy - Rev 1 [REP5-022], the Applicant is proposing 500m of riparian planting along Longdike Burn where a varying low to medium density riparian woodland already exists. Additional planting may provide lower than stated uplifts if the existing scrub and tree have not been accounted for. Alternatively, the site would likely naturally regenerate given the existing scrub and woodland if grazing pressures are removed from the site. Natural regeneration can often result in greater biodiversity and resilient woodlands due to the growth of locally native trees from the seedbank. As such, focus on compensation in areas where an existing seed source is not present would likely yield a greater contribution to the impacted watercourse.	 This comment is repeated above. of this document. It is understood that concerns regarding gra livestock. It is considered that it is beyond th deer from accessing this parcel of land. New practice measures can be put in place to rec planting, and suitable tree protection will be is known that deer are potentially an issue. S guards of a minimum height of 1.5m for roe species present within desk study data obta recognised best practice measures, these w Series 3000 specification document, which is of the Outline CEMP [REP6-025 and 026] (at the context of the
62	The Applicant is suggesting to undertake 'nutrient management measures, aquatic planting and bankside stabilisation' on Longdike Burn. We have still not yet been presented with any justification for the suitability of these works and are concerned that this may be claimed as compensation without any evidence that these issues are present within the proposed area or are in fact causing a degradation of the watercourse. We believe further details are to be submitted at Deadline 7.	 This comment is repeated above. of this document.
63	We would welcome further information regarding how these areas are to be maintained and protected once returned to landowners. Future use of these compensation areas may severally impact their potential to recover, provide value to biodiversity and result in a no net loss in biodiversity in the long term as a result on the scheme.	 All watercourse compensation are acquisition boundaries, this will be of plans being prepared for subm against items 5 and 6 of this docu
64	With respect to point 1 of the Applicant's response, it states that 'Additional improvement measures identified that collectively form the current package of compensatory works include design of realigned watercourse channels (138m, Part A) to be better (in terms of environmental condition and biodiversity value) than that lost'. We would welcome clarification as to how the delivery of improvement measures to a section of watercourse that is to be realigned as part of the scheme can be classed as compensation?	 This comment is repeated above. of this document.
65	With respect to point 4 of the Applicant's response, it states that the Applicant 'is exploring opportunities to improve lengths of other existing watercourses that fall within the Order limits to further compensate for the loss of watercourse channel. This may involve the re-naturalising and re-meandering of historically heavily modified and straightened channels'. We are pleased to see the Applicant has taken on-board our suggestions of improving historically heavily modified and straightened with such measures and potential opportunities.	As detailed in response 15 above, the positi measures have been identified to mitigate a although the Environment Agency disagree. explore the feasibility of further improvemen Order limits. The Applicant remains in discu- regarding this matter, which is to be discuss scheduled for 18 May 2021. A record of disc within the statement of common ground for it
66	Ref. No. 3 We hold data that shows 3 records of otter within 2km within the last 10 years (2015, 2016 and 2017). One record is on the River Aln so there is potential for otters to migrate up White House Burn where there appears to be some ponds (and as such a potential feeding location). The second record is on Kittycarter Burn downstream of the scheme towards Fallondon. The first record is c.1km from the A1	 These responses are an expansion As detailed in recent written representation Deadline 4 Submissions [REP5-0 within the dataset obtained by the from Order limits) dates back to 2



to the compensation for the loss of adline 8.

e. A response is provided against Item 8

razing relate to deer as opposed to the requirements for the Scheme to prevent evertheless, industry recognised best reduce the impact of deer grazing young be specified at detailed design stage where it e. Suitable tree protection may include tree be deer and 1.8m for fallow deer (both stained by the Applicant). As industry e would be identified and detailed within a h is secured by measures S-L11 and S-L13 (and as updated at Deadline 7

e. A response is provided against Item 8

areas are within the DCO permanent be demonstrated clearly through the set mission at Deadline 8 as discussed cument.

e. A response is provided against Item 9

sition of the Applicant is that sufficient and/or offset the assessed impacts, ee. However, the Applicant continues to ents of existing watercourses within the cussion with the Environment Agency ssed in greater detailed during a meeting iscussions and progress will be captured or issue at Deadline 8.

sion of responses 10 and 11 above. resentations (Applicant's Response to -029]), the most recent otter record ne Applicant for Part B (2km search area 2015, located 1km from Part B. As

	within a small pond near lime kilns on Rock Estate. However there appears to be no direct link with the A1.	detailed in the Applicant's Written Hearings issued at Deadline 6 [R 2017 for Part B referred to by the
67	Considering there are historical records of road mortalities on the A1 (6 records 2001-2009, 5 on the A1 2001-2008), this indicates that the existing scheme has already acted as a barrier to movement and caused harm to otters.	within the Applicant's data set. He with the Environment Agency, the records from 2016 and 2017, whi area from Part B.
68	On 29/04/21 the EA undertook a site visit to Shipperton Burn in Part B of the scheme. An abundance of otter spraints were found both upstream and downstream of the structure, indicting the burn is actively used by otters. In total 6 sprainting locations were founding within 200m of the scheme, with the closest c.10m upstream from the road boundary. We have provided the Applicant with this evidence.	 Following Issue Specific Hearing the Environment Agency on 23 al evidence for the presence of otte the study area for Part B (along S Environment Agency at the meeti considering this and the potential crossing locations. The Applicant is considering fenc Applicant is actively engaging wit matter and is making progress to will be captured within the statem
69	The burn provided good habitat for otters. However, the culvert is a fully concrete structure with a smooth base with a relatively steep incline and as a result, water velocities were relatively high. As such, it is anticipated that given the uniform and smooth channel base, in high flows the culvert would be impassable to otter. In light of the clear evidence of use by otters and poorly designed culvert, we request that the Applicant takes into account this new evidence and revaluates their assessment for otters in Part B, specifically the risks posed by the Shipperton Burn culvert.	 As detailed above, following Issued discussions with the Environment explore the evidence for the preservidence of otter adjacent to the second by the Environ April, and the Applicant is consider fencing along Part B at key cross The Shipperton Burn Culvert wou construction of Part B, with the exertisting culvert. The Applicant ha mammal shelf into the Shippertor extension). Whilst it is feasible to should a precast culvert design b height by 2.0m width) prevent the shelf within the existing culvert. The physical space for a person to inservice and Management) (CDM eliminate hazards and reduce risk hazard can be avoided by not entities of the statem will be captured within the statem
70	Barriers to movement have the potential to impact upon connectivity of habitats and important ecological features which play a key functional role in the landscape as 'stepping stones' for migratory species to move during their annual migration cycle. It also helps species to move between sites, to disperse populations to new locations, to forage, or move in response to climate change. If no action is taken and the Shipperton Burn culvert is extended in its current form, then the scheme poses a risk of increasing	 As presented within the Applicant submissions [REP5-029], it was of during a meeting held on 11 Marc proportionate or pragmatic to rem them. The increased construction



en Summaries of Oral Submissions to REP6-044], the records from 2016 and e Environment Agency were not present However, following further discussion he Applicant acknowledges the two otter hich are located close to the 2km search

g 3, the Applicant held discussions with and 30 April 2021 to explore the er. Further evidence of otter adjacent to Shipperton Burn) was provided by the eting on 30 April, and the Applicant is al need for fencing along Part B at key

ncing at four locations along Part B. The rith the Environment Agency on this o seek a resolution. Further discussions ment of common ground.

the Specific Hearing 3, the Applicant held ant Agency on 23 and 30 April 2021 to esence of otter on Part B. Further the study area for Part B (along Shipperton ronment Agency at the meeting on 30 dering this and the potential need for assing locations.

build be extended as part of the extension being a mirrored design of the has explored the feasibility of retrofitting a on Burn Culvert (including within the to consider a shelf in the extension, be used, the culvert dimensions (1.2m he retrospective installation of a mammal This is not possible due to the lack of install the shelf and also for the last of allowance of headroom. Further, the hat, as designers, under Construction M) Regulations, there is a duty to isks. In this case the confined space entering the culvert.

ing with the Environment Agency on this to seek a resolution. Further discussions ment of common ground.

nt's Response to Deadline 4

discussed with the Environment Agency rch 2021, that it is not feasible, move all extant culverts and upgrade

on footprint requirement and damage to

Applicant's Response to Deadline 5 and 5a Submissions

	otter mortalities given otters may be less likely to use longer culvert or are unable to pass through in high flow.	existing habitats, both terrestrial a facilitate this, outweigh the benef
71	Consequently, otters may be forced to travel over the road where they are more likely to be killed on the road as they will need to cross 4 lanes instead of 2 lanes.	 Applicant's Response to the Envir Representation [REP1-064]). The this during the meeting. Structure those currently present (in relation extension, culverts will remain sui beneath the carriageway. 2. Details of evidence of otter presen Burn) were provided by the Environ a meeting on the 30 April 2021. T the potential need for fencing alor including the Shipperton Burn. Th matter with the Environment Ager
72	In response to the Applicant's response (point 4), we welcome the additional measures. However, this is highly reactive to the death of a European protected species and does not apply the precautionary principle given the records and evidence presented. Any retrospective mitigation measures may either be prohibited by access issues, due to landscaping and riparian planting either being physically in the way or the damage access would cause, or unreasonable costs post scheme completion for retrofit.	 This comment is repeated above 12 of this document.
73	Ref. No 4, point 3 We do not agree that the proposed level of compensation is adequate for the loss of or damage to watercourse and riparian habitat that will be realised due to the delivery of the scheme.	 This comment is repeated above 13 of this document.
74	Ref.No4a We welcome the provision of further details regarding the proposed improvements to the Longdike Burn at Deadline 7.	 This comment is repeated above of this document.
75	Ref.No.6 The figure presented for the loss of watercourse is 427m. However, we are unclear if this simply relates to the length of the culvert, or the headwalls and other physical modifications that result in the loss of natural bank / riparian vegetation removal.	 This comment is repeated above 15 of this document.
76	The 'creation' of a watercourse to facilitate the diversions would need to align with best practice and protected from livestock during recovery to replace lost watercourses with natural banks and diversity. Given any new watercourse or channel will take a number of years to establish and recover, simply deducting the new channel length from the lengths lost does not accurately account for the impacts of the scheme in the short term. Hence why compensation is often required at multiples of those lost to account for this. Where tree planting is often replaced at a ratio of at least 3:1 to account for unsuccessful establishment, and to counter the short term loss of overall biomass and biodiversity value, watercourses here are simply being replaced at a 1:1 ratio based only on the length of the culvert and not the other construction features associated with such strictures.	 There is no need to protect the co as all watercourse compensation acquisition boundaries and there livestock grazing. This will be der plans being prepared for submiss items 5 and 6 of this document. Appropriate management will be LEMP, which is secured within Ex [REP6-025 and 026] (and update adopted into the HEMP, The EA's comment on the comper replaced at a 1:1 ratio) is repeate against Items 5, 8, 13 and 15 of t



I and aquatic, that would be required to efits of this approach (as per A.23 of the ivironment Agency's Relevant he Environment Agency acknowledged res are to be extended consistent with ion to form and dimension) and following suitable for use by mammals for passage

sence and activity (along the Shipperton vironment Agency to the Applicant during The Applicant is considering this and long Part B at key crossing locations, The Applicant continues to discuss this jency to seek a resolution. ve. A response is provided against Item

e. A response is provided against Item

e. A response is provided against Item 8

e. A response is provided against Item

constructed watercourses from livestock on areas are within the DCO permanent re are no proposals to utilise this land for emonstrated clearly through the set of ssion at Deadline 8 as discussed against

e in place. This will be set out in the ExA: S-L100 of the Outline CEMP ted at Deadline 7), and this will then be

bensation package (watercourses being ted above. A response is provided f this document.

77	We see no commitment within section 5.1. 'Post construction monitoring' to monitor the watercourses post construction and rectify any defects or intervene where they have not achieved the value or diversity as per the designs.		d by EXA:- S-W102 (updated and submi
78	Ref. No50 We do not agree that the 'retrospective installation of fish baffles on the existing culvert of the River Lyne (Part A), replacement of the wooden baffles within an existing culvert of Longdike Burn (Part A)' constitutes as compensation for the loss of watercourse and riparian habitat that will be realised by this scheme. It is a legal obligation to maintain fish passage under the Salmon and Fresh water fisheries Act.	 This comment 16 of this docu 	is repeated above. iment.
Deadli	ne 5 Submission - 7.21 Applicant's Response to ExA's Further Written Questions [REP5-023]		
79	With respect to geomorphology, the Slope Stability and Southern Access works have the potential to have a locally significant impact on the River Coquet. The temporary river training works and the scour protection/rock armour will lead to the loss riparian habitat, will fix the river to the currant planform, and will change local flow regimes and sediment dynamics. The work will also decouple to the river from the surrounding slopes, and the sediment they supply, and it is likely that the changes to the channel dynamics extend beyond the footprint of the scheme.	stabilisation and locally significat geomorphology magnitude of it Statement Add 063] and Envir for Change Ref from Table 5-2 Coquet Param proposed work geomorphology result of the lo 2. The Applicant southern acce the River Coq is unlikely to a SSSI or its ecc affected (in co predicted mine Environmenta Request [REP Addendum: Se However, the significant effe SSSI (paragra Stabilisation V 7.10.6, Enviro for Change Ref 3. As noted in Ta Stabilisation V Environmenta Change Requ training works sediment direc	esponse 17, the App and southern access ant impact on the Ri- ly. The Applicant se mpact in Table 9-2 dendum: Stabilisatic conmental Statemer equest [REP4-064] r of Appendix 10.7 (heter 10 Part A of the calised nature and I does however agre ss works would resu- uet and Coquet Vall ffect the integrity of ological function, du mparison to the sca or adverse impacts to adverse impacts to statement Addend 4-063] and Table 8- outhern Access Wor loss of riverbank hal oct (direct, permaner ph 8.10.6, Environn /orks for Change Re- nmental Statement act (direct, permaner ph 8.10.6, Environn /orks for Change Re- nmental Statement /orks for Change Re- nmental Statement /or /orks for Change Re- /or /or /or /or /or /or /or /or /or /or



2 of the updated Outline CEMP [REP6mitted at Deadline 7).

e. A response is provided against Item

pplicant disagrees that the slope ss works have the potential to have a River Coquet with respect to sets out the criteria for determining the 2 and Table 8-2 of Environmental tion Works for Change Request [REP4ent Addendum: Southern Access Works respectively, which has been adapted Geomorphology Assessment – River the ES [APP-260]. When assessing the ned that the magnitude of impact on be of minor adverse magnitude, as a d limited extent of any changes. ree that the slope stabilisation and sult in a significant effect with respect to alley SSSI. The loss of riverbank habitat of the River Coquet and Coquet Valley lue to the short length of bank habitat cale of the wider SSSI unit) and the s to geomorphology (Table 9-8, dum: Stabilisation Works for Change 8-8, Environmental Statement orks for Change Request [REP4-064]). nabitat is concluded to result in a ent Moderate adverse effect) to the nmental Statement Addendum: Request [REP4-063] and paragraph nt Addendum: Southern Access Works I). mental Statement Addendum: Request [REP4-063] and Table 8-7 of dum: Southern Access Works for onstruction of the temporary river ort-term increase in the volume of fine annel and consequently increase and reduced channel width at all flows

t capability of the river, enabling the

A1 in Northumberland: Morpeth to Ellingham Applicant's Response to Deadline 5 and 5a Submissions

> transport of larger material at lower flows compared to the baseline. Impacts are likely to be temporary and reversible following completion of construction and reinstatement works. Bank and bed features would be degraded within the footprint of the works, although some channel bed impacts may be reversible following end of construction with mitigation provided to reinstate features where practicable, although any loss of bedrock may not be reversible. The temporary river training works could alter the channel dynamics, which could result in increased erosion and sediment transport rates. Impacts may cease following end of construction.

- 4. As noted in Table 9-8 of Environmental Statement Addendum: position naturally and mature riparian vegetation would be lost.
- 6. The Applicant agrees that the north bank proposals may have the



Stabilisation Works for Change Request [REP4-063] and Table 8-8 of Environmental Statement Addendum: Southern Access Works for Change Request [REP4-064], the permanent scour protection may lead to a permanent but localised reduction in the availability of erodible sediment. Locally, the banks are not considered to be an important source of sediment for the channel. Some bank and near-bank bed features would be lost within the footprint of these works. The existing bank profile would be reinstated so alterations in channel cross section are anticipated to be minimal. Some alterations to channel roughness may occur. A reduction in roughness compared to the existing tree line bank may locally increase erosion rates. However, impacts are likely to be small, very localised to the channel margins and limited to the extent of the scour protection. The change in materials from which the bank is composed would, by design, reduce the channel's ability to adjust its Increased run off may occur locally due to immature vegetation. 5. The form of the catchment is controlled by the underlying geology and topography, the dominance of bedrock suggests that the timescales for adjustment are over hundreds to thousands of years, with lateral adjustment of the channel and bed constrained by the valley form. Whilst the rock armour would act as a barrier to any lateral movement. over the 120 year design life of the proposals, any lateral movement, in the absence of the proposals, would likely be very limited, given the substantial period of time over which channel adjustments would occur. potential to decouple the slopes from the channel. However, the slope stabilisation works are intended to be localised in their extent to the slopes around the proposed north bank pier location and necessary for the integrity of the bridge pier foundations. There have been a number of valley side failures within the gorge, which have delivered sediment to the river. These failures will have historically supplied material to fluvial system and, at some locations in the gorge, continue to do so through the erosion of their toes. The change to planform caused by these failures is likely to be temporary and localised as fluvial action removes finer failed sediment, however large boulders may continue to have an influence on local flow conditions over longer periods. Specifically at the location of the north bank works, a wide, relatively gently sloping area adds significant lag to input of sediment from failures of the upper valley

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			side to channel, as it will rest in the flooding. For the south bank, the primary revalley side to the river is from roce on the south bank could still reace compared to the north bank, with of trees. On this basis, it is not ar processes would be decoupled for rock armour. The Applicant does not agree that channel response beyond the for out above. The bank protection we morphological behaviour of the re- transfer zone (Table 9-8 of Enviro Stabilisation Works for Change For Environmental Statement Addem Change Request [REP4-064]).
80	We do not share the Applicant's expectation that the information relating to the impacts of the changes associated with the Slope Stability and Southern Access works, will change the findings of the geomorphological assessment and that there are no significant effects as set out in Environmental Statement Addendum: stabilsation works – Rev 1 [Rep4-063] and Environmental Statement Addendum: southern access works – Rev 2 [Rep4-064]. Our position will be guided by the new work the Applicant is currently undertaking.	2.	As set out in response 79 above, not conclude significant effects w significant effect is concluded wit Coquet Valley SSSI. The Applicant has now provided Geomorphology Assessment, co outputs from hydraulic modelling at Deadline 7 (River Coquet Fluw (Document Reference 6.47)). Th and assessment presented in En Stabilisation Works for Change F Environmental Statement Adden Change Request [REP4-064] (Cl the spatial extents and changes i vicinity of the proposed works. In the Scheme construction scent the extent and magnitude of the a are as reported Environmental S Works for Change Request [REF Addendum: Southern Access Wo with the exceptions of the extent the temporary works and the incr sediment entrainment potential. If changes from baseline were ider Environmental Statement Adden Request [REP4-063] and Table 8 Statement Addendum: Southern [REP4-064] and, with the sugges significantly affect features of inte such, the overriding consideratio effect of the Scheme in the const



this gently sloping area until removed by

route for delivery of material from the ckfalls. It is anticipated that any rockfalls ch the channel, as the slope is steeper n some being arrested by the presence nticipated that the south bank slope from the channel by the presence of

at the proposals would impact the otprint of the works for the reasons set works are not considered to change the reach, or the function as a sediment conmental Statement Addendum: Request [REP4-063] and Table 8-8 of ndum: Southern Access Works for

whilst the Applicant's assessments do with respect to geomorphology, a th respect to the River Coquet and

the River Coquet Fluvial ompleted with consideration of the g, submitted as part of the Examination vial Geomorphology Assessment his allows for verification of the results invironmental Statement Addendum: Request [REP4-063] (Chapter 9) and indum: Southern Access Works for hapter 8) and provides further detail on in flow and sediment behaviours in the

nario, the assessment concludes that anticipated changes from the baseline Statement Addendum: Stabilisation P4-063] and Environmental Statement orks for Change Request [REP4-064], of the 'backwater' effect as a result of reases in stream power and modelled However, the potential for these ntified qualitatively in 6.38 dum: Stabilisation Works for Change 8-7 and Table 8-8 of 6.40 Environmental Access Works for Change Request sted mitigation, are not considered to erest such as the mid-channel bar. As ns in determining the significance of truction scenario stand, i.e. that the

			works are of relatively short dura are reversible. In the Scheme operational scena extent of anticipated changes is a Addendum: Stabilisation Works f Environmental Statement Adden Change Request [REP4-064], wi being confined to the margins of Scheme and immediately downs The Magnitude of Impact for the Southern Access Works therefor (Minor adverse) in Table 9-7 and Statement Addendum: Stabilisati 063] and Table 8-7 and Table 8-8 Addendum: Southern Access Wo and therefore the Significance of remains Slight (not significant).
Deadlin	e 5 Submission - 7.23 Applicant's Response to Procedural Decision on Changes to the Application	REP5	-032]
81	With respect to ref number 6, the Flood Risk Assessment must be updated to reflect the Hydraulic Modelling outputs. Without an update to the FRA it will be difficult to assess the flood risk impacts from the proposed changes. The EA's review of the hydraulic model will be limited to whether the model is "Fit for purpose'.		A Flood Risk Assessment Adden Examination at Deadline 7 (Flood Coquet [REP1-067]). This concl localised decrease in flood levels assessed) in the vicinity of the ne operational flood risk to local rec- pier positions and rock armour so With regards to the construction identified a hitherto unidentified in new crossing. Whilst this impact level of 0.144m in the vicinity of r Farm) during the 0.1% AEP (100 change the flood risk to this rece 3.244m above the 0.1% AEP (100 The impact of this increase in flood already subjected to extensive flood year) event.
Deadlin	e 5 Submission - Change Request - 6.28 Biodiversity No Net Loss Assessment for the Scheme (Clea	ın) - R	ev 3 [REP5-038]
82	There appears to be a heavy reliance on the planting of woodland as mitigation or compensation for the loss of watercourse. We would welcome a package of works that would provide meaningful compensation for the loss of watercourses.		This response should be read in 13 and 15 of this document. The Applicant has previously pro Deadline 6. As detailed in the Ap 5a Submissions [REP6-040], pro watercourses and channels has that could improve the watercour sediment capture and shading (fe linear connectivity of the watercour improvement measures identified package of compensatory works



ation and the effects on fluvial processes

ario, the assessment concludes that the as reported in Environmental Statement for Change Request [REP4-063] and adum: Southern Access Works for ith notable change from the baseline the channel within the extent of the stream.

both the Stabilisation Works and re remains the same as that presented d Table 9-8 of 6.38 Environmental ion Works for Change Request [REP4-8 of 6.40 Environmental Statement orks for Change Request [REP4-064], f Effect for all geomorphological impacts

ndum has been submitted to the d Risk Assessment Addendum – River ludes that with the exception of a s (compared to that previously ew crossing, there is no change in ceptors as a consequence of the new cour protection system.

phase, the hydraulic model has impact on flood levels upstream of the results in a maximum increase in flood receptor A (Otter House / Shothaugh 00-year) event, this is insufficient to eptor in real terms which remains 000-year) flood level during construction. ood level is seen on farmland which is ooding during the 0.1% AEP (1000-

conjunction with those for Items 5, 8,

		 watercourse channels (138m, Par environmental condition and biodi retrospective installation of fish ba River Lyne (Part A), replacement of existing culvert of Longdike Burn (feature and improvements to the 8 the Order limits. 3. The Applicant continues to engage regards to the loss of watercourse Scheme. The position of the Appli been identified to mitigate and/or of the Environment Agency disagree 5 Submission [REP5-044], the En- culverting and loss of watercourse offset / compensated outside of the discussion. 4. The Applicant and Environment A May 2021 (earliest availability for matter in detail and seek agreeme and progress shall be documented ground for issue at Deadline 8.
83	We note a net loss of 11.69% of watercourse and a gain of 7.21% of area based units and a failure of 4 out 10 Net Gain Principles. Therefore, we would encourage opportunities to compensate for this loss with equivalent river based units. Where river units or length are lost, common compensation measures could include the re-naturalising and re-meandering of heavily modified and straightened watercourses. Re-naturalising of watercourses that are found to be highly modified and historically straightened will in the long term provide a benefit to ecology and river health, whilst potentially providing gains in river length lost by the scheme.	 As detailed in previous written rep Environment Agency (most recent biodiversity no net loss or net gain current planning law for Nationally (NSIPs) (such as this Scheme) an local policy level. Whilst not a requirement for a NSI been produced for the Scheme [R Applicant's own internal biodiversi Biodiversity Plan). As confirmed in Oral Submissions at Hearings [RE consider biodiversity impacts acro scale as opposed to considering it biodiversity no net loss report whic used to inform biodiversity change scheme level. The Applicant is grateful for the En opportunities to compensate for th This will be considered within the across its network at a national leve 4. The Applicant confirms that the Bi for the Scheme for Change Request loss of 11.69% in river biodiversity based habitat biodiversity units an biodiversity units (as detailed in Tational 5. As detailed in Table 3-2 of the Bio for Change Request [REP5-038 a achieve six of the ten Biodiversity



art A) to be better (in terms of diversity value) than that lost, paffles on the existing culvert of the t of the wooden baffles within an n (Part A) to increase the life span of this a 850m of Longdike Burn that falls within

ge with the Environment Agency with se as a result of culverting across the plicant is that sufficient measures have r offset the assessed impacts, although ee. In the Environment Agency Deadline invironment Agency outlined that the ses as a result of the Scheme could be the DCO boundaries, this remains under

Agency have arranged a meeting for 18 r relevant specialists) to discuss the nent/resolution. A record of discussions ed within the statement of common

epresentations and discussed with the ently during a meeting on 07 May 2021), ain is not a legal requirement under Ily Significant Infrastructure Projects and is also currently not mandatory at a

SIP, a biodiversity no net loss report has REP5-038 and 039] in order to meet the sity plan (Highways England in the Applicant's Written Summary of REP4-026], the Applicant looks to ross its whole network on at a national it on a scheme by scheme basis. The nich has been produced will therefore be ges at a national level and not at the

Environment Agency's advice regarding the net loss of river biodiversity units. e Applicant's assessment of biodiversity level.

Biodiversity No Net Loss Assessment uest [REP5-038 and 039] identifies a net ity units, a net gain of 9.05% in areaand a net gain of 4.57% in hedgerow Table 3-1 [REP5-038 and -039]. iodiversity No Net Loss for the Scheme and 039], the Scheme is unable to by Net Gain principles. However, this is

		primarily a result of the loss of an habitat, which is unavoidable.
Dead	ine 5 Submission - Change Request - 6.45 Borrow Pit Dewatering Plan [REP5-040]	
84	The information outlined in this document addresses our previous comments.	1. Noted. No response required
85	Advice to applicant: The Applicant may need a permit from the EA for dewater activities. Discharge to surface water for dewatering purposes may be covered by a Regulatory Position Statement (RPS) for water discharge activities. If the Applicant is able to comply with all of the conditions within the RPS, then a permit is not required for this activity. Further information is available at https://www.gov.uk/government/publications/temporary-dewatering-from-excavations-to-surface-water	 Agreed. A groundwater dewaterin construction phase. Commitment EA-W1 of the Outlin been updated at Deadline 7 to ind licence (for dewatering activities) discharge) will be required for the
86	If any discharges do not fully comply with the RPS, then a bespoke discharge permit will be required. Guidance on applying for a bespoke water discharge permit is available at <u>https://www.gov.uk/guidance/discharges-to-surface-water-and-groundwater-environmental-permits#standard-rules-permits-for-package-treatment-plants</u>	 Agreed. A groundwater dewaterin construction phase. Commitment EA-W1 of the Outlin been updated at Deadline 7 to ind licence (for dewatering activities) discharge) will be required for the
Dead	ine 5 Submission - 7.6C Statement of Common Ground with Environment Agency - Rev 2 [REP5-017]	
87	We are working with the Applicant to address the issues outlined in this letter and in our previous correspondence.	 Agreed, a Statement of Common the Environment Agency was sub it is proposed to submit a further u at Deadline 7.
Dead	ine 5 Submission - 3.1 draft Development Consent Order (Clean) - Rev 6 [REP5-005]	
88	It is our understanding that the Applicant does not seek to disapply any of the EA's consenting regimes. Therefore, the Protective Provisions in the draft DCO are acceptable.	 The Applicant welcomes confirmative the proposed Protective Provision acceptable.

Ref. No.	Action	Response:	Applicant's Response:			
Append	Appendix A: Actions arising from the Issue Specific Hearing 3 (ISH3) held virtually from the 21 to 22 April 2021					
Wednes	sday, 21 April 2021 -	- Issue Specific Hearing 3				
6	Environment Agency (EA) and the Applicant to provide Position Statement on	We do not believe the proposals put forward by the Applicant adequately mitigate or compensate for the disturbance and damage to, and the loss of watercourses associated with the scheme.	 The Applicant considers that the me and / or compensate for the impacts as discussed below. 			



ancient woodland, an irreplaceable

ring permit will be applied for prior to

line CEMP [REP6 025 and 026] has include: "A water resources abstraction s) and Environmental Permit (for water he Scheme."

ring permit will be applied for prior to

line CEMP [REP6 025 and 026] has include: "A water resources abstraction s) and Environmental Permit (for water he Scheme."

on Ground covering the issues raised by ubmitted at Deadline 6 [REP5-017], and er updated Statement of Common Ground

mation from the Environment Agency that ions in the DCO [REP6-010 and 011] are

neasures proposed adequately mitigate cts upon the watercourses and channels,

Ref. No.	Action	Response:	Applicant's Response:
	compensation and mitigation for the loss of watercourses and culverts.	In total an extra 427m of watercourse will be lost to culverting. The damage and loss of watercourses will be higher than 427m quoted, as they do not take into account additional infrastructure such as scour protection, wing walls etc and fail to recognise that the influence of the culvert on river processes will extend beyond the footprint of the structure itself.	 The Applicant can confirm that it is p in the loss of 427m, as detailed with Assessment of Losses and Gains of comprises 271m for Part A and 156 These values represent the loss of I The loss of watercourse channel do of a culvert/culvert extension and do headwalls and other physical modifi realignment of channels, that result (including bank and associated ripa Floodgate Burn, the proposed exter 6.7m (see Culvert Mitigation Strateg additional realignment of the channe to be 40.6m. The measurements have been infor extension, Structures and Engineeri Phase 1 habitat plans (Part A [APP- 155]) and aerial imagery. As such, t accurate as far as reasonably practi The Applicant can also confirm that provided. Noting that the riparian pla improvements to the watercourses t compensation measures included ir other measures included within the are: Fish baffles Realigned watercourses Improvements to Longdike B inclusion of natural beds with This is a significant length when cor lost and is considered sufficient to a of additional watercourse which mat requirements are known. This additi Vegetation Clearance Plans for Cha interpretation by the Environment A be submitted at Deadline 8. The Ap- Environment Agency with regards to culverting across the Scheme. The



s predicted that the Scheme would result thin Annex A - Approach to the of Watercourses [REP2-010]. This 66m for Part B.

f linear length of watercourse channel. loes not just simply relate to the length does take into account features such as ifications to the channel, such as lt in the loss of natural channel arian vegetation). For example, on ension to the culvert is approximately egy [REP5-022]). However, due to the nel, the loss of watercourse is calculated

brmed by the length of culvert or culvert ering Drawings and Sections REP5-004], P-105 and REP2-010] and Part B [APPthe calculated loss of channel is cticable with the information available.

at 1,240m of riparian planting is to be planting, which will provide to offset the impacts is one of the in the Scheme for loss of watercourse, e comprehensive mitigation package

Burn;

thin the culverts

ompared to the length of watercourse also compensate for any short lengths ay be lost when the construction itional vegetation loss is shown on the nange Request [REP4-040] for ease of Agency a watercourse specific plan will Applicant continues to engage with the to the loss of watercourse as a result of e position of the Applicant is that

Ref. No.	Action	Response:	Applicant's Response:
			sufficient measures have been iden assessed impacts, although the En- Environment Agency Deadline 5 Su Agency outlined that the culverting the Scheme could be offset / compe- boundaries, this remains under disc
		Watercourses are valuable features of the landscape for people and wildlife. The EA have legal duties under the Environment Act 1995, the Water Environment (Water Framework Directive) Regulations 2017 and the Natural Environment and Rural Communities Act 2006, to ensure that they are protected and enhanced for the benefit of present and future generations.	1. The Applicant notes the Environme
		Culverting and related infrastructure works against the natural processes of watercourses. It can exacerbate the risk of flooding and increase maintenance cost and complexity. It leads to the loss of and adverse effects on morphology, fisheries and wildlife habitats including substrate. It also interrupts the continuity of the linear corridor of a watercourse, can affect channel stability and for aquatic species culverts create barriers to passage through increased water velocities, behavioural deterrent, shallow depths, darkness, oxygen depletion and eroded entrances. The WFD imposes legal requirements to protect and improve the whole water environment. In order to ensure physical alterations to watercourses meet WFD, and the wider environmental duties, including the Applicant's general duty to conserve biodiversity under the NERC Act 2006; modifications to the watercourses within the development envelope must not lead to deterioration in the quality of watercourses, prevent them from improving, and aim should seek to protect or improve a nature conservation area or priority habitat. Every opportunity should be sought to improve the water environment and habitat.	 The Applicant has assessed the flo as a result of the Scheme and dete adverse effects, as detailed in: a. Flood Risk Assessment, Par b. Flood Risk Assessment, Par c. Annex B - Flood Risk Adden d. Flood Risk Outside Order Lin The Applicant is not challenging the impacts on watercourses. However any linear infrastructure project, wh be crossed. The culverts have beer and appropriate mitigation including reduce the impacts within the culve With the mitigation measures in pla that the Scheme will lead to a deter terms. The Scheme has a complex and nu been worked through by the multidi every opportunity is sought to impro- whilst balancing the impacts on the associated uses.
		We consider the mitigation measures put forward by Applicant fall short of the industry standards such as the CIRIA's Culvert, Screen and Outfall Manual. For example, there is a failure to commit to a suitable depth of sediment within the culverts, especially for the Shipperton, Floodgate and Earsdon Burns and for the	 The Applicant considers that the de designed in line with the appropriate Applicants Response to Deadline 5 Deadline 6 [REP6-040].



entified to mitigate and/or offset the Environment Agency disagree. In the Submission [REP5-044], the Environment g and loss of watercourses as a result of pensated outside of the DCO iscussion

nent Agency's regulatory position.

lood risk to the Scheme and third parties termined that there are no significant

art A [APP-254]

art B [APP-311]

endum [REP1-067]

Limits [REP3-007]

he Environment Agency on the potential er, culverts are an essential aspect of whereby necessity watercourses need to en designed to be as short as feasible ng natural beds have been included to verts.

lace, the Applicant does not consider erioration in the watercourse, in WFD

numerous set of constraints, which have disciplinary design team to ensure that prove the water environment and habitat, he adjacent landowners and their

depth of the natural beds has been ate guidance, as detailed in the 5 submissions in Table 1-1, Item 18 at

Ref. No.	Action	Response:	Applicant's Response:
		 River Lyne. For all these waterbodies, the proposed bed depth is 150mm or less, rather than between 300-600mm. The invert of the culvert should be placed sufficiently low to allow the uninhibited movement of channel bedload sediment (ie set lower than the maximum entrainment depth, hence the recommendation of 300mm or greater on culverts greater than 1.8m wide). The retention of a natural bed provides connectivity for fish and invertebrates while minimising any disruption to the sediment regime. Thinner beds run the risk of being scoured out over time and downstream scour and erosion as shown in figures 11-1, 10-1, 7-1, 7-2 and 6-1 in the document 6.7 Environmental Statement – Appendix 10.2 Water Framework Directive Assessment Part A [APP-255]. 	2. The Applicant is considering the fea of natural beds within the culverts,
		In line with paragraph 5.33 of the National Policy Statement for National Networks, there is an opportunity to address legacy issues associated with the A1. On the Longdike and Shipperton Burns, there is an opportunity to address fish access issues within the DCO boundary.	 Paragraph 5.33 of the National Polici (NPS NN) states that development p opportunities for building in beneficia proposals, the Secretary of State sh has maximised such opportunities in Secretary of State may use requirer appropriate in order to ensure that s For Longdike Burn, as detailed in re the Burgham Culvert (10.1) are mod length of the culvert and its permeat adversely impacted by the Scheme. outlet of the culvert to align with the engineering works that would be rec proposed to improve long-term fish p replacement of the existing wooden structures to improve the lifespan of This improvement is secured by mea [REP6-025 and 026] (and as update For Shipperton Burn, the potential le a minor road bridge downstream of Culvert Mitigation Strategy [REP5-02 small step between the base of the I However, the outlet of the bridge is a is insufficient space to modify the ou- works that would be required. The Applicant is in compliance with committing to develop a strategy of the opportunities identified within pa



easibility of incorporating a greater depth

licy Statement for National Network t proposals potentially provide many cial biodiversity. "When considering should consider whether the applicant in and around developments. The ements or planning obligations where t such beneficial features are delivered."

response 53 above, the only changes to odifications to existing headwalls. The ability to fish passage will not be e. It has not been possible to lower the he channel bed due to the extent of equired. However, the Applicant has h passage within the culvert by the en baffles with more permanent of the feature (longer lasting material). heasure A-B9 of the Outline CEMP ated at Deadline 7).

legacy issue for fish passage relates to of the Shipperton Burn Culvert (Ref 27.1, -022]). The outlet of the bridge has a e bridge/culvert and the channel. s at the Order limits and therefore there outlet due the extent of engineering

h paragraph 5.33 of the NPS NN by of biodiversity enhancements, based on paragraph 9.9.11 of Chapter 9:

Ref. No.	Action	Response:	Applicant's Response:
			Biodiversity Part A [APP-048], para Part B [APP-049], and Section 3.2 [REP4-054 and 055]. The strategy relevant stakeholders. This measur Outline CEMP [REP6-025 and 026
		The proposed riparian woodland and wetland planting that has been presented as compensation for the culverted watercourses, is not considered appropriate compensation for the loss of, or disturbance to culverted and engineered waterbodies. In approximately 50% of the cases proposed for riparian tree planting, there are already riparian trees present along the proposed watercourse.	 The Applicant understands the Environment to tree planting to be the presence disturbance. To demonstrate the in planting the Applicant has committed plans demonstrating how the veget links with the riparian planting which loss of channel will be submitted at
		The re-routing of the Fenrother, Elsdon and the Kittycarter Burns provides an opportunity to significantly improve these channels. In accordance with paragraphs 5.23 and 5.33 of the National Policy Statement for National Networks, we consider that to date, the proposals suggested, and the space allocated to these realignments is very restrictive and misses an opportunity to improve biodiversity	 The Scheme requires the re-alignmassumed that this is the channel rethe Elsdon), Fenrother and Kittycar Instead, these tributaries are essene phemeral (i.e. non permanently flornot designed as watercourses in Au of Losses and Gains of Watercours for Part A and 156m for Part B. The Applicant considers that these better form than their current status necessary to a field boundary ditch
		Our view is that the design of the new channel should be based around the predicated discharges rather than existing conditions.	 The Applicant does not agree that the predicted discharges as this coregime. Notwithstanding this consider contain the flood flows within the chasecured via changes in wording of W7 of the Outline CEMP [REP6-02] Deadline 7).
		We consider that the design objectives should maximise the opportunities presented through the design of the new channel. The aim, as far as possible, accepting the local constraints, should be to re-establish the natural functioning of the channel, through naturalised flows, sediment transfer, patterns of erosion and deposition. Measures such as these will provide the most sustainable long term solutions delivering multiple benefits including climate resilience, sustainable flood management, improved biodiversity, reduced maintenance costs.	 Given that as discussed previously by the Environment Agency are fiel their natural state (i.e. before they land drainage) would not be practic



ragraph 9.9.9 of Chapter 9: Biodiversity 2 of the Ancient Woodland Strategy y will be developed in consultation with ure is secured by measure S-B20 of the 26] (and as updated at Deadline 7).

nvironment Agency's concerns in relation e of existing trees and construction impacts and the location of the tree tted to preparing and submitting a set of etation loss as a result of construction ich is part of the compensation for the at Deadline 8.

iment of tributaries of the Earsdon (it is referred to by the Environment Agency as arter Burns, not the main channel. entially relatively straight uniform, flowing) field boundary ditches and are Annex A - Approach to the Assessment irses [REP2-010]. This comprises 271m

e channels are being recreated in a us and further enhancements are not th.

t the channel should be designed around could result in a change to the flood sideration will be given to the potential to channel during detailed design. This is f the Outline CEMP for both A-B7 and A-025 and 026] (updated and submitted at

ly many of the channels under discussion eld boundary ditches, returning them to v were created to artificially improve the cical or desirable.

Ref. No.	Action	Response:	Applicant's Response:
		We suggest that the design of the new channels should be influenced by some of the ideas presented in the River Restoration Centre Design Manual. As an example, and while acknowledging it is not a direct comparison, case study 1.6 Opening up a culverted stream, the River Ravensbourne, highlights a number of techniques that could be adapted and incorporated into the design of the new channels.	The Applicant considers that the current in Framework Directive Assessments Part A provide an enhancement over and above t boundary ditches.
7	EA, Northumberland County Council (NCC) and Applicant to provide Position Statement in relation to the presence of Otters.	The Applicant has not fully taken into account historical records of otters and as such has not taken a precautionary or fully informed approach to their assessment, despite an acknowledgement that 'the desk study recorded 13 records of otter within the 2km search area. The Applicant must acknowledge the presence of offers and provide appropriate mitigation e.g. landscaping, mammal fencing etc We also disagree with the statement, 'the assessment considered those records within the last 10 years, as earlier records may not be relevant to the current ecological baseline'. Otters are generally seen to be experiencing a favourable increase in their distribution and population and as such, it is expected that populations of otter could be higher than what records indicate. Future increase in otter population, as is the goal of nature conservation for the species, should be taken into account due to the lifespan of the road and its increased barrier to mammal movement. Three records within 2km are within 10 years and again, these have not been considered in their assessment. A further 3 are within 15 years and a further 3 are within 20 years. Otters are likely present within 2km of the scheme and historical records show this with even more with 5km, which is not an unreasonable distance for otters to travel. As such, they have not considered the impacts the road widening might have on commuting otters. Even if the population is very low, by accepting that otters are likely to commute across the scheme, then they should consider even simple mitigation to reduce the increased chance of road mortality given otters may be less likely to use longer culverts or are more likely to be killed on the roads as they will need to cross 4 lanes instead of 2. Considering there is historical records of road mortalities on the A1 (6 records 2001-2009, 5 on the A1 2001-2008), then this shows the existing scheme is already acting as a barrier to movement and causing harm to otters.	 The Applicant provided a response Environment Agency at Deadline 5, Deadline 4 Submissions [REP5-029 response at Deadline 5 confirmed the specific account of historical record Historic records (latest otter record 2015) were considered alongside the the completion of surveys between of the desk study results, the negation of years and the presence of predout the species informed a "likely abser B Order limits. The Applicant's Deal following extension, there are culve passage to wildlife (particularly mar However, following Deadline 5 and held discussions with the Environment explore the evidence for the present adjacent to the study area for Part E provided by the Environment Agence Applicant is considering this and the B at key crossing locations. The Applicant is considering provisis along Part B. These locations take a mortality (dating back to 2011). The Environment Agency on this matter resolution. The Applicant is expecting substantive update at Deadline 8. F within the Statement of Common G [REP6-032] at Deadline 8.



indicative designs as detailed Water A and Part B [APP-255 and APP-312] e the current condition of the field

se to the points raised by the 5, within the Applicant's Response to 29]. As a brief summary, the Applicant's 4 that the Applicant's approach did take rds obtained at the time of assessment. d held by the Applicant dated back to the absence of otter field data, following in 2016 and 2019. Of the historic nature ative field survey results over a number dominantly suboptimal habitats to support ent" classification for otter within the Part eadline 5 response also confirmed that, verts that retain the ability to offer free ammals) except in times of flood.

d Issue Specific Hearing 3, the Applicant ment Agency on 23 and 30 April 2021 to ence of otter. Further evidence of otter t B (along Shipperton Burn) was ncy at the meeting on 30 April, and the the potential need for fencing along Part

isional ideas for fencing at four locations e account of historical records of otter he Applicant is actively engaging with the er and is making progress to seek a cting to be in a position to provide a Further discussions will be captured Ground with the Environment Agency

Ref. No.	Action	Response:	Applicant's Response:
Thursda	ay, 22 April 2021 – I	ssue Specific Hearing 3	
9	NCC and EA to respond to the Applicant's approach to construction mitigation documents.	We are still in the process of reviewing the updated CEMP. We are working with the Applicant to ensure that the measures outlined in the REAC are appropriate and provide the necessary mitigation and or compensation for any impacts from the scheme. The CEMP could be better sign posted. It is unclear how the CEMP and the LEMP will be taken forward in the future in terms its implementation.	 Noted. The Applicant is working wit appropriate measures are captured 026] (updated and submitted at Dea 2. The Outline CEMP [REP6-025 and provide narrative on how the CEMP Diagram 1-1 illustrates how the LEM HEMP. Diagram 1-2 shows the num influence the LEMP.

Table 1-2 – Defence Infrastructure Organisation

Ref	Response	Applicant's Response
1	I can confirm the MOD has no safeguarding concerns with this update to the proposal as received on 09/04/21. However, we remind the applicant and PINS of our previous request of details of any future designs for lighting columns which may be proposed for the two bridges (Heckley Fence Overbridge and Charlton Mires Junction) in order to perform the necessary safeguarding assessments. These areas pass through the 15.2m Statutory Technical Safeguarding Zone associated with RRH Brizlee Wood.	 The Applicant can confirm that lig set out in 6.7 Appendix 2.1 Lightin will be no lighting columns on any including the two referenced over Charlton Mires.

Table 1-3 – Mark Hawes D6 Submission

Ref. No.	Response:	Applicant's Response:	
This for	This forms part of Deadline 6 response from Northgate Farm. The Response is directed at the Deadline 5 submission made by the Applicant referenced by 7		
	As part of deadline 5 submission the Applicant has provided detailed responses (7.22 Applicant's Response to Deadline 4 Submissions) to each of the Northgate Farm responses provided in deadline 4. The deadline 4 submission having made in response to the Applicant's deadline 3 response to the written representation.	1. No response required.	
	In reading the responses the majority are reiterations or embellishments on points already made by the applicant in deadline 3. None of the responses provided served to ease or resolve our concerns. More importantly the responses do not provide any material change to the current position.	 The responses provided to Mr Hawes' The Applicant is required to provide a parties such as Mr Hawes, and has pr 	



ith the Environment Agency to ensure all
d in the Outline CEMP [REP6-025 and
eadline 7).

nd 026] was updated at Deadline 6 to MP and LEMP (if produced) will interact. EMP would align with the CEMP and umerous other documents that might

lighting was scoped out of the assessment as nting Assessment - Rev 1 [REP1-011] as there ny of the bridges forming part of the Scheme, erbridges in Part B at Heckley Fence and

22 Applicant's Response to Deadline 4

es' written submissions are of a factual nature. a response to all points raised by interested provided responses to demonstrate that the

Ref. No.	Response:	Applicant's Response:
		relevant assessments undertaken for guidance and/or standards. 2. The Applicant has provided responses at items 1 to 73, below.
	On responding here, the natural inclination was to make a further submission to address each of the points made by the Applicant. Inevitably this would have led to a further iteration by the Applicant in deadline 7. We do not believe continuing with this approach is helpful and have therefore chosen to break out of the current recursive loop by not responding to every point.	 The Applicant has provided responses at items 1 to 73, below. In addition to responding to Mr Hawes continues to engage in discussions with held on 29/04/2021. with a further me 10/05/2021 to address Mr Hawes' cor
	The reality is that both parties have a very different perspective and will never agree on the impact upon the plans. The Applicant is looking to implement the scheme in the most costs effective manner and is duty bound to defend the submitted plans. Having lived at the property for over 25 years we are naturally protective of the lifestyle and benefits that we enjoyed to date and now believe are at risk. This should be respected by both parties.	 The Applicant is cognisant of Mr Hawe with Mr Hawes both through formal su throughout the development and exar continue to work with Mr Hawes to ad The Applicant has assessed the envir on Mr Hawes' property, and proposed accordance with the relevant topic-spe has taken account of the concerns rai Hawes, both prior to application and c
	Notwithstanding the above position there is one point made by the Applicant in deadline 5 that does warrant a response. In deadline 5 the Applicant makes the following statement as part of the Summary section:	 The Applicant will continue to work win addition to the written responses prove working with Mr Hawes and his agent
	The Applicant does not consider that there are 50 issues which remain outstanding. While extensive written submissions have been exchanged with Mr Hawes, the underlying points at issue are capable of being condensed into a set of key issues, which number rather fewer than 50. Discussions are ongoing with Mr Hawes to condense the points raised.	
	In response to this comment, we felt it was appropriate and helpful to share a high-level summary of the issues as they stand today taking into account recent feedback from the Applicant. As a living document we continue to work with the Applicant to try to address specific issues on the list.	
	Although the number 50 was previously referenced to provide an indication of scale and breadth of the impact upon Northgate Farm this is not a numbers game. In presenting them as a list, our primary objective was to help the targeting of individual issues with possible mitigation.	 The Applicant will continue to work win addition to the written responses prov working with Mr Hawes and his agent
	We would much rather be in a position where the list was much smaller and we were able to support the scheme. Having objectively read and listened to various representations over the last 5 years the reality is that the scheme will have a significant effect on the property and the list of issues is long. From our perspective these are genuine concerns which stem from our detailed understanding of the plans. Whilst we do not profess to be planning experts, we are experts in knowing what we enjoy about the property and how the scheme will change our personal enjoyment. The list of issues shared below provides a summary of this viewpoint. We are hopeful that the Applicant is able to respect this opinion and does not feel compelled to counter each point.	 The Applicant respects the views of M Scheme may impact upon his propert The Applicant is required to provide a parties such as Mr Hawes. However, provided at items 1 to 73, below, the A Hawes and his agent to reduce the lis



r the Scheme comply with the relevant

es to the specific points raised by Mr Hawes

es to the specific points raised by Mr Hawes

es' written submissions, the Applicant with Mr Hawes. Since ISH3, a meeting was neeting scheduled for the week commencing oncerns.

wes' concerns and has continued to engage submissions and during meetings held amination of the Scheme. The Applicant will address his concerns.

vironmental impacts of the Scheme, including ed appropriate mitigation for those impacts in pecific guidance. In doing so, the Applicant aised by interested parties such as Mr during the course of examination.

with Mr Hawes to address his concerns. In ovided at items 1 to 73, below, the Applicant is nt to reduce the list of concerns.

with Mr Hawes to address his concerns. In wided at items 1 to 73, below, the Applicant is not to reduce the list of concerns.

Mr Hawes in relation to how he feels the rty.

a response to all points raised by interested r, in addition to the written responses Applicant will continue to work with Mr ist of concerns.

Ref. No.	Response:	Applicant's Response:
1	The following provides a high-level view of some of the lost benefits: The loss of views. The outlook views from all corners of the property are significantly impacted by the expansion of the road, the noise barrier and the construction of the PMA.	 The Applicant has responded to the poutlook from the corners of the propeup response to Deadline 3 comments 1-8 - Mark Hawes (page 80) - Deadline submitted for Deadline 3 - Part 2 in A Submissions [REP5-029]. As previou 135/10 and Guidelines for landscape the assessment of visual effects as separt A [APP-044] has appropriately a the occupants of the dwelling, as opp demonstrated that the visual effect we and slight adverse (not significant) during the second statement of the second statement of the second statement of the second statement of the st
2	Easy commute to Newcastle has been lost.	 As detailed at response 4F in Table 1 4 Submissions [REP5-029], the existi on the grounds of safety. As a result, distance for southbound journeys of a speed limit and through junctions. Fo direct access to the northern carriage travel south to the junction at Morpeth carriageway. As referred to at Refere Response to Deadline 4 Submissions drivers are set out at Chapter 4 of the would serve to offset the increased so
3	Bus service on the doorstep has been lost along with car sharing.	 The Applicant has acknowledged in F Response to Deadline 4 Submissions impact on residents at Warreners Hou due to the loss of the bus stop in this and human health assessment for the and 12.10.18 of Chapter 12: Populati The Applicant has not previously bee which would be affected by the Scher sharing.
4	Easy unfettered access to the property directly from a public road.	 Pedestrian access along the A1 and i The Applicant has acknowledged in response to Deadline 4 Submissions Northgate Farm from the A1 would be replaced with a private access from V the property throughout construction i As referred to at Reference 4F on page Deadline 4 Submissions [REP5-029], Chapter 4 of the Case for the Scheme the loss of the direct access from the
5	The convenience and enjoyment of friends popping in for coffee while passing.	1. The Applicant has provided a response access to the Property from the A1 at
6	Privacy available in the garden.	 The Applicant has responded to this p page 50 of the - Applicant's Response

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e points raised by Mr Hawes regarding the perty in its response to Items 1a – 1d, Followits from the Applicant and Reference 6, Table lline 4 Submission - Comments on responses Applicant's Response to Deadline 4

busly stated, in accordance with DMRB IAN be and visual impacts assessment 3rd Edition, set out in Chapter 7: Landscape and visual and proportionately assessed the impacts on oposed the garden space. This assessment would be large adverse during construction during operation.

1-7 of the Applicant's Response to Deadline sting direct access onto the A1 will be closed t, there would be an additional journey approximately 0.78km on roads with a lower For northbound journeys, there is currently no geway, so there is already a requirement to th in order to access the northbound ence 4F on page 73 of the Applicant's ns [REP5-029], the benefits of the Scheme for ne Case for the Scheme [REP4-070], which

southbound journey distance.

Reference 5A on page 75 of the Applicant's ns [REP5-029] that there would be an adverse ouse (including residents at Northgate Farm) is location. This forms part of the population he Scheme, as detailed at paragraph 12.10.15 ation and Human Health Part A [APP-054]. een made aware of any car sharing schemes eme. The Scheme does not preclude car

I into the property would be retained. response 4I on page 74 of the Applicant's as [REP5-029] that the direct access to be removed on the grounds of safety, and West View, to the south, to provide access to and operation.

age 73 of the Applicant's Response to], the benefits of the Scheme are set out at ne [REP4-070], which would serve to offset e A1.

nse in relation to the closure of the direct at items 2 and 4, above.

point previously in Item 2 of Table 1-7 on se to Deadline 4 Submissions [REP5-029],

Ref. No.	Response:	Applicant's Response:
		and maintains that there is not any signarties accessing the PMA. Neverthe Applicant has provided a hedgerow b and northern boundaries, as indicated [REP4-060].
7	Security of the property is compromised	1. The Applicant does not agree that the compromised. As set out in points 1.2 Response to Written Representations Applicant's Response to Deadline 4 S removal of direct access from the A1 boundary treatment measures addres
8	Easy access to footpaths at the west of the property and bridleway access to the south of the property.	 The Applicant confirmed in 1.42.5.7 of [REP1-064] that the footway along the House to the southern extent of the S carriageway is proposed to be retained Way and Access Plans [REP6-006]. In the vicinity of Northgate Farm, a ne extending on from Bridleway 407/010 of Morpeth at West View. This is show Access Plans [REP6-006] and was re Hawes at 5.6 of the Applicant's Responded.
9	Lost kerb appeal to the property.	 The Applicant has previously respond on the so-called kerb appeal of the pr the proposed planting in this location, Applicant's Response to Written Rep Reference 2, Table 1-7 - Mark Hawes responses submitted for Deadline 3 - 4 Submissions [REP5-029].
10	Safe woodland to play and relax.	1. The Applicant maintains the position s Applicant's Response to Written Repu Table 1-7 on page 50 of the Applican [REP5-029] that there is no acquisitio there would be the acquisition of right PMA and the associated planting. The addressed in the Applicant's response
	ove list focusses solely on key benefits lost by the scheme they do not include other detrimental impacts ding concerns relating to the Northgate Farm.	such as increase in noise or loss of trees. The
Acquis	tion of permanent rights 1-8b	
1	Tree loss in woodland. Loss of trees and hedgerow within the wooded area as part of the PMA construction. A potential risk of losing further loss of trees in the future with the close proximity of the access road compromising the root system.	 The Applicant has previously respond relation to the loss of trees on the nor within plot 1-8b. This is provided in re deadline 3 comments from the Applic Deadline 4 Submission - Comments of



significant reduction in privacy as a result of eless, and as set out in that response, the boundary to the garden space on the eastern ed on Landscape Mitigation Masterplan Part A

ne security of the property will be .2, 1B, 1D, 2C and 4E in the Applicant's ns [REP3-026] and 1B2 on page 52 of the Submissions [REP5-029] the combination of 1 and Private Means of Access (PMA) ess the perceived security threat. of the Response to Relevant Representations he eastern side of the A1 from Strafford

Scheme at the tie in to the existing dual ned, as shown on Sheet 1 of the Rights of

new section of bridleway would be provided, 0, which would tie into the road network north own on Sheet 1 of the Rights of Way and referred to in the Applicant's response to Mr ponse to Written Representations [REP3-

nded to points raised about potential impacts property, including the provision of details of n, at item 4 of Table 1-6 – Mark Hawes in the presentations [REP3-026] and at item 3 of es - Deadline 4 Submission - Comments on a - Part 2 in Applicant's Response to Deadline

n set out in points 1.3 and 1D1 of the presentations [REP3-026] and confirmed in nt's Response to Deadline 4 Submissions ion of land within Mr Hawes' garden. Rather, hts to facilitate the construction of the new he questions of privacy and security are se to items 6 and 7, above.

he following provides a high-level view of the

nded to the points raised by Mr Hawes in orth east and eastern boundary to the garden, response to item 4 of Follow-up response to cant – Reference 1, Table 1-7 - Mark Hawes on responses submitted for Deadline 3 - Part

Ref. No.	Response:	Applicant's Response:
		1, Applicant's Response to Deadline Applicant's document Written Summa Appendix D – Warreners Private Mea position presented in Change Reque [REP4-040] as to the removal of tree assessment, sets out how the Applic trees and outlines methods by which protected, including measures to avo
2	Security Risk. The woodland area of the property is an integral part of the garden which provides a secure place to enjoy day and night. The close proximity of the access road changes all of that. It can no longer be considered a secure area where tools and machinery. Furthermore, the position of the road provides a point of unprotected access to the property which does not have security cameras and lighting.	1. The Applicant has provided a respon
3	Safe Play area lost. The woodland has provided a safe haven for Children and pets to play without fear and risk. The introduction of the road means that this is no longer an option. Furthermore, we will no longer feel safe sitting in woodland at night.	1. The Applicant maintains the position Applicant's Response to Written Rep The questions of privacy and security to items 6 and 7, above.
4	Wildlife. The construction of the access road wrapping around the woodland will reduce the level of wildlife which visits the woodland which includes Owls, hedgehogs, Stoats, Badgers, Deer and bats. We have invested a lot of time in encouraging wildlife in this area. The access road will create a barrier around woods deterring its use by some wildlife. The wildlife does not need be on the protected species list for us to enjoy. For example, we particularly enjoy watching deer in the woods.	 It is incorrect to state that the access visits the woodland. As stated in the a Submissions [REP5-029], "as a private single lane with a proposed width of a be used infrequently by vehicles. As barrier to wildlife including deer, which also applicable to other wildlife raised including owls, hedgehogs, stoats, batthe woodland. It should be noted that the Applicant inform the assessment of the Schembern owl, badger and bats. The base barn owl nest/roost sites [APP-238] (confidential) or bat roosts [APP-235] detailed in paragraph 9.7.22 of Chapp surveys for hedgehog were not unde incidentally when encountered during are not Species of Principal Important the Natural Environment and Rural C surveys were not required. The Appli not be resident, but may visit the wood upon completion of the Scheme.
5	Additional Noise from Vehicles in the woodland. With the number of journeys exceeding 20 per day there will be a noticeable increase in the noise levels in the woodland area. This is further exasperated by the absence of speed limits on the road.	 Noise from vehicles using the new ad Applicant previously within Ref No. 7 Applicant's Response to Deadline 4 S this point stated: "it is anticipated that any vehicle m infrequent and short in duration and area would not experience noise from



e 4 Submissions [REP5-029]. In addition, the nary of Oral Submissions at Hearings – eans of Access [REP4-029] explains that the est - 2.9 Vegetation Clearance Plans - Rev 2 es represents a reasonable worst case cant will avoid the unnecessary removal of h any remaining trees would be retained and roid impacts on root zones.

nse in relation to security at item 7, above.

n set out in points 1.3 and 1D1 of the presentations [REP3-026] and item 10 above. ity are addressed in the Applicant's response

s road will reduce the level of wildlife that Applicant's Response to Deadline 4 vate means of access, the road constitutes a f 4.8m [REP4-029] that would be expected to s such, the access road would not create a ich can and do cross roads". This statement is ed by Mr Hawes within his written response, badgers and bats, should these species visit

t has undertaken full ecological surveys to me, which included surveys for birds (including seline ecological surveys did not identify any confidential), badger setts [APP236 and 237] 5] within the woodland block in question. As pter 9: Biodiversity Part A [APP-048], targeted ertaken and the species was recorded ng other surveys completed. Stoat and deer ance (SPI), in accordance with Section 41 of Communities (NERC) Act 2006, and therefore blicant acknowledges that these species may podland block, which would remain accessible

access road has been addressed by the 7E row 2 (on page 84) of Table 1-8 within Submissions [REP5-029] which in relation to

movements on the access road would be I therefore, for the majority of the time, this om vehicles on the access road. Whilst noise

Ref. No.	Response:	Applicant's Response:
		 from infrequent vehicles on the access number of daily vehicle trips expected the nature of the access road, the us have an inconsequential effect on not the overall noise environment of the access from the A1 3. It is not correct that speed limits are a National Speed Limit.
6	Views from the woodland. We particularly enjoy sitting in the woodland with uninterrupted views across the fields in all directions. The new access road will become the prominent feature blocking views to the south, east and North.	 The Applicant has responded to the p outlook from the corners of the prope woodland on the north-east boundary response to deadline 3 comments fro Mark Hawes - Deadline 4 Submission Deadline 3 - Part 2 in Applicant's Res 029]. As previously stated, in accorda for landscape and visual impacts ass visual effects as set out in Chapter 7: appropriately and proportionately ass dwelling, as opposed the garden spa visual effect would be large adverse (adverse (not significant) during operation
7	Woodland Privacy. We have been fortunate enough to have enjoyed the woodland to relax and recharge the batteries in the knowledge that we had complete privacy and would not be interrupted. The construction of the access road will mean that all parts of this garden will be exposed to the road.	 The Applicant has provided a respon woodland area, at item 6, above.
Acquisi	tion of permanent rights 1-8a	
8	Kerb Appeal. All kerb appeal is lost with the current proposed access. The stone wall entrance is replaced with views of tarmac and an array of metal constructions on the adjacent property which are not picturesque.	1. The Applicant has provided a respon
9	Loss of trees. To accommodate the new access further trees will need to be felled thereby further exposing the widened carriageway. No provision has been made to retain the existing banks of soil.	 With reference to the loss of trees, th that there would be a loss of a limited existing access to Capri Lodge to pro- responses to the points raised by Mr within plot 1/8a are provided to item 2 comments from the Applicant – Refer Deadline 4 Submission - Comments of 1, Applicant's Response to Deadline With reference to the existing banks of existing planting is retained as far as Table 3.1 – Register of Environmenta Outline CEMP [REP6-025]. To ensur measures to be identified at the detail retention of the mounded soil banks of established.



ess road may be audible, given the low ted and the likely low speed of vehicles given use of the access road would be expected to noise levels in this area and would not change area, which is already substantially A1."

absent - the road will be subject to the

e points raised by Mr Hawes regarding the berty, including views from the edge of the ary, in its response to Items 1b, Follow-up from the Applicant – Reference 6, Table 1-8 on - Comments on responses submitted for esponse to Deadline 4 Submissions [REP5dance with DMRB IAN 135/10 and Guidelines ssessment 3rd Edition, the assessment of 7: Landscape and visual Part A [APP-044] has ssessed the impacts on the occupants of the bace. This assessment demonstrated that the e (significant) during construction and slight eration.

nse in relation to privacy, including in the

nse in relation to kerb appeal at item 9, above.

the Applicant has consistently acknowledged ed number of trees, including adjacent to the provide access via the PMA. Previous Ir Hawes in relation to the removal of trees in 1d, Follow-up response to deadline 3 ference 6C, Table 1-7 - Mark Hawes s on responses submitted for Deadline 3 - Part e 4 Submissions [REP5-029]. s of soil within plot 1/8a, in ensuring that the as is practicable, this is secured in S-L2 of intal Actions and Commitments within the ure access for vehicles, it will be necessary for tailed design phase, which includes for the

Ref. No.	Response:	Applicant's Response:
10	Water supply. The current PMA route crosses over two different water pipes. At this stage there is no provision to address this.	 The Applicant has acknowledged in r Written Representations [REP3-026] existing private water meter. Principle confirmed to Mr Hawes on the liaison made allowance for all statutory under 2. Draft protective provisions for utilities Part 1 of Schedule 10 to the DCO [RE engaged with all statutory undertaker Scheme, and utilities that are required construction of the Scheme will be un otherwise.
11	Landscape Design. A significant amount of effort and investment has been made over the last 25 years to landscape the garden. The landscape design was purposely customised to orientate around the current access. The proposed plans will effectively negate much of this work requiring significant rework.	 As has been stated previously in item on the northern boundary would broad Northgate Farm and Capri Lodge, as Arrangement Plans [REP6-005]. The maintained, will be considered at the document Written Summary of Oral S Warreners Private Means of Access [presented in Change Request - 2.9 V 040] would extend to the full length of the garden space and turning head w retained as far as is practicable, it how identified at the detailed design phase circulation access and integration with suitably worded measure in the Outlir and access point has been reached w
12	HGV turning. There is no provision in the plans for large HGV vehicles to turn around with the new access direction.	 The Applicant can confirm that vehicle proposed route to assess its suitabilit understood to utilise the Warreners H combined harvester and trailer, farm 195 tractor). The PMA layout would a undertake a three-point turn. Large H the Applicant understands that these construction or operational phases.
13	Minimal protection offered by trees. Great store has been placed by the Applicant in the masking properties of the trees in this area. Unfortunately, the trees are at an age where they have become "quite leggy" and will not mask the A1 when construction is completed	 As has been stated previously in item Day 1 – Environmental Matters in th Submissions to Hearings at Deadline planting on the western boundary of t which screens the A1. The noise barr effect of the noise barrier and the exis boundary, would be to substantially so management of Mr Hawes' existing p Mr Hawes is, of course, entitled to ma



6 response 6A1 of the Applicant's Response to 6] that the PMA will allow access to the oles of the diversion of the water supply were on call on 14/04/21. The DCO application has dertaker diversions.

es and statutory undertakers are contained in REP6-010 and 011]. The Applicant has ers and utility providers impacted by this red to be relocated to allow the safe undertaken by the utility owner unless agreed

m 9 above, the proposed access for the PMA badly align with the existing access between as shown on Sheet 1 of the General be access design, to ensure that access is e detailed design stage. The Applicant's Submissions at Hearings – Appendix D – s [REP4-029] explains that the position Vegetation Clearance Plans - Rev 2 [REP4of the PMA. As such, the landscape design of will ensure that the existing planting/design is nowever will be necessary for measures to be use in order to achieve this. The design of the with the garden space will be secured through a cline CEMP, once agreement on the alignment I with Mr Hawes.

cle tracking has been undertaken along the lity for use by the various agricultural vehicles House access (Massey Fergusson 7278 In tractor and hay wagon and Case IH CVX d allow for a light commercial vehicle to HGV vehicles have not been provided for, as e would not utilise the PMA during either the

em 5.3 of Table 1-1 – Issue Specific Hearing 3 the Applicant's Written summaries of Oral ne 6 [REP6-044], there is a strong block of f the existing A1 to the west of the property, arrier is a new visual feature but the combined xisting vegetation to the west side of the screen views of the Scheme. The planting is outside the scope of the Scheme. naintain his own planting.

Ref. No.	Response:	Applicant's Response:
Placem	ent of Layby close to the property	
14	View of HGV Vehicles. Laybys are commonly used by HGV vehicles to provide a stopover. As such the view of parked HGV vehicles will be a prominent view on the landscape. The view of HGV vehicles will be particularly prominent on the approach to Northgate farm via the new PMA access road.	 With reference to views of the propose has responded to this point previously 3 comments from the Applicant – Ref Deadline 4 Submission - Comments of 1, Applicant's Response to Deadline property, including views of any HGV mitigated through the retention of exist boundaries, with the exception of a na proposed PMA, but which would grace mitigation hedgerow and trees to the on Landscape Mitigation Masterplan would be retained or provided, and th 3.1 – Register of Environmental Action Outline Construction and Environmental Deadline 4 [REP6-025].
15	Layby Assistance. Laybys are essential to assist broken downs vehicles. Unfortunately, it is also common that they look to the local properties for assistance.	 The Applicant maintains the response to Written Representations [REP3-02 deadline 3 comments from the Applic Applicant's Response to Deadline 4 S
16	Security risk. The layby provides a convenient legitimate place to park for anyone wishing to burgle the local properties.	 The Applicant maintains the response to Written Representations [REP3-02 deadline 3 comments from the Applic Applicant's Response to Deadline 4 S
17	Mitigation Constraint. The wide expanse of the layby minimises what can be done to the landscape to mitigate the impact of removing the hedgerow and coronation trees.	1. The Applicant maintains the response Response to Written Representations Applicant's Response to Deadline 4 S Applicant's Response to Deadline 4 S
18	Antisocial behaviour. Unfortunately it is common to see antisocial behaviour at laybys.	 The Applicant does not foresee that the lead to anti-social behaviour and ther Applicant maintains the responses por Written Representations [REP3-026] of the Applicant's Response to Deadl
19	Rubbish. It is common to see layby bins overflow with rubbish despite regular emptying. In addition, there are plenty of examples where the layby has been used to fly tip.	 The Applicant maintains the same rest foresee that the operational maintenations and fly tipping. Requirement 4 of Schedule 2 to the of Scheme to be constructed in accordat Secretary of State, which must be base 026] (and as updated at Deadline 7). require a HEMP to be developed by t matters in the CEMP relevant to oper then be operated and maintained in a



osed layby from the property, the Applicant sly in Item 1 of Follow-up response to deadline eference 2, Table 1-7 - Mark Hawes on responses submitted for Deadline 3 - Part e 4 Submissions [REP5-029]. Views from the Vs using the layby, would be substantially xisting vegetation on the western and northern narrow gap to facilitate the construction of the adually be screened as the proposed e north establish. The Applicant has identified n Part A [REP4-060], where this vegetation this is secured through item S-L2 (c) of Table ions and Commitments: The Scheme in the ental Management Plan (CEMP), updated at ses to point 2B1 of the Applicant's Response 26] and point 2 of Follow-up response to

26] and point 2 of Follow-up response to icant – Reference 2B responded to in the Submissions [REP5-029].

ses to point 2C1 of the Applicant's Response 026] and point 2 of Follow-up response to licant – Reference 2C responded to in the Submissions [REP5-029].

ses provided at point 2/D of the Applicant's ns [REP3-026] and point 2/1 on page 59 of the Submissions in Table 1-7 responded to in the Submissions [REP5-029].

t the operational maintenance of this layby will ere is no reason to suppose that it would. The point 2F1 of the Applicant's Response to 6] and Reference 2F responded to on page 63 dline 4 Submissions [REP5-029].

esponse to point 18 above that it does not nance of this layby will suffer from overflowing

dDCO [REP6-010 and 011] requires the dance with the CEMP approved by the based on the Outline CEMP [REP6-025 and). Further, paragraphs 4 to 6 of Requirement 4 v the end of the construction, addressing eration and maintenance. The Scheme must accordance with the HEMP.

Ref. No.	Response:	Applicant's Response:
20	Picturesque cottage lost. The widening of the road and the establishment of the soil depot will result in the stone cottage being demolished.	 The blight notice in respect of Northgates accepted by the Applicant. This has been northbound carriageway of the A1. The property, as detailed further at item 3 Response to Written Representations Table 1-7 on page 63 of in Applicant's [REP5-029]. While there is a temporate Location 1 as shown on Sheet 2 of the [REP4-060], this has not triggered the 2. With reference to the visual effect of the Applicant maintains the response to 3 to Written Representations [REP3-02 1-7 in the Applicant's Response to Details and the Applicant's Response to Detai
21	Loss of additional trees due to Swale Maintenance access road. The scale of trees and vegetation loss, to facilitate the Swale maintenance, is significant and much greater than that depicted in the plans.	 The alignment of the access road has potential impacts on the adjacent woo Vegetation Clearance Plans [REP4-0 point 3A on page 35 of the Applicant's [REP3-026] and Reference 3F/1c and Response to Deadline 4 Submissions
22	Additional Access Road. The new swale maintenance road and associated works will become a prominent part of the view to the west of the property replacing the current woodland outlook.	 The Applicant maintains the response Response to Written Representations 1-7 on page 68 in the Applicant's Res 029]. The access road would not com
23	A697 road view. The planned swale works will require trees to be removed thereby thinning the protected cover currently provided.	 The Applicant maintains the response Response to Written Representations 1-7 on page 68 in the Applicant's Res 029]. Vegetation removal is not antici the A697 where they do not currently
24	Access of vehicles to the depot will add to the air quality, dust and noise concerns during the construction period.	Air Quality 1. Air quality impacts, including dust, as storage area have been addressed by row 4 (on page 64) of Table 1-7 within Submissions [REP5-029] which in rel "1. The construction dust assessment set ou and Appendix 16.4: Air Quality Likely Signifi considers the impacts of construction activity Scheme red line boundary. The assessment associated with a major scheme, such as the stockpiles. The receptors, including Mr Haw Construction Receptors Part A [APP-078]. V mitigation measures, which are set out withi (and as updated at Deadline 5), the concluse that there would be no significant air quality construction.



gate House was received in 2017 and been triggered by construction of the new There is no depot in the vicinity of Mr Hawes's 3 of Table 1-6 on page 34 in the Applicant's ns [REP3-026] and item 2 of Reference 3, at's Response to Deadline 4 Submissions orary soil storage area, Topsoil Storage the Landscape Mitigation Masterplan Part A he demolition of Northgate House.

f the removal of the stone cottage, the o 3B on page 36 of the Applicant's Response 026] and Reference 3B/1 on page 65 of Table Deadline 4 Submissions [REP5-029].

as been designed so as to minimise the oodland, as indicated on Change request – -040]. The Applicant maintains the response to at's Response to Written Representations nd 3 on page 68 of Table 1-7 in the Applicant's ns [REP5-029].

se to point 6 on page 44 of the Applicant's ns [REP3-026] and Reference 3F/1a of Table esponse to Deadline 4 Submissions [REP5ontribute to a significant visual effect.

se to point 6 on page 44 of the Applicant's ns [REP3-026] and Reference 3F/1b of Table esponse to Deadline 4 Submissions [REP5cipated to expose direct, unfiltered views of ly exist.

associated with vehicles accessing the soil by the Applicant previously within Ref No. 3 hin Applicant's Response to Deadline 4 elation to this point stated:

out in Chapter 5: Air Quality Part A [APP-040] ificant Effects of the Scheme [APP-330] vities at all receptors within 200m of the ent considers all potential construction activities the Scheme in question, including the use of wes' property, are shown in Figure 5.4 With the application of the recommended hin the Outline CEMP [REP4-013 and 014] usion of the construction dust assessment is ty effects resulting from the Scheme during

Ref. No.	Response:	Applicant's Response:
		2. The construction traffic assessment set of Quality Likely Significant Effects of the Sche construction traffic on pollutant concentration this assessment was that pollutant concentration air quality standards, and that there would be of construction of the Scheme, including at the
		Noise
		 Noise impacts associated with vehicle been addressed by the Applicant preof Table 1-7 within Applicant's Responsibility and the construction of Table 1-7 within Applicant's Responsibility and the second to this point stated: <i>"Noise generating activity associated with the assessed as part of the earthwork's activity [APP-042]. The potential for noise impacts of been assessed within Chapter 6 Noise and 16.5 Noise and Vibration Likely significant E Construction mitigation measures are set of (and as updated at Deadline 5) within Section Commitments. The construction noise and the Assessment of Likely Significant Effects of the O42] concludes that, following the implement noise effects are predicted during the construction of the con</i>
25	Soil Deposit view. The views of open field of countryside will be blocked by the soil deposit during construction.	 The Applicant maintains the response of the Applicant's Response to Dead the temporary soil storage area.
Access	to the property	
26	Viable route concern. The owners of the adjacent property have communicated directly they will not accept any shared use of the access road over their property.	 The Applicant confirmed in point 2 of Response to Deadline 4 Submissions Lodge now wishes to avoid a shared closure of the existing direct A1 acce Hawes and the new owner of Capri L Ultimately, if a power to acquire a rig not determinative.
27	Increased Journey time. Access to the property from the North will take much longer to complete with circa 3 extra miles of travel and an additional 15-minute journey to access the property. Similarly, journeys to the south will take much longer.	 The Applicant has acknowledged in r Response to Deadline 4 Submissions access to Northgate Farm from the A with a private access, would result in 0.78km journey by vehicle to the prop offset by the improvements to journey will remain throughout construction a is currently no direct access to the nor requirement to travel south to the jun northbound carriageway.



out in Appendix A of Appendix 16.4: Air heme [APP-330] considers the impact of ions at human receptors. The conclusion of trations remain would well below the relevant be no significant air quality effect as a result t Mr Hawes' property."

cles accessing the soil storage area have reviously within Ref No. 3 row 5 (on page 64) ponse to Deadline 4 Submissions [REP5-029]

the soil store has been considered and y within Chapter 6: Noise and Vibration Part A resulting from construction traffic has also d Vibration Part A [APP-042] and Appendix Effects of the Scheme [APP-331]. out in the Outline CEMP [REP-013 and 014] tion 3 Register of Environmental Actions and I vibration assessment within Section 6.10 f Chapter 6 Noise and Vibration Part A [APPentation of mitigation, no significant adverse struction stage of the Scheme, including at this

se to Reference 3F/1f of Table 1-7 on page 70 dline 4 Submissions [REP5-029], in relation to

of Reference 4 on page 70 of the Applicant's ns [REP5-029] that the new owner of Capri d access situation, although they support the cess. Discussions are ongoing with both Mr Lodge to explore alternate solutions. ght is granted, the view of either landowner is

a response 4F on page 73 of the Applicant's ns [REP5-029] that removal of the direct A1 on the grounds of safety, and replacement n, for southbound journeys, an additional operty. However, this would be somewhat ey times on the A1 and access to the property and operation. For northbound journeys, there northern carriageway, so there is already a inction at Morpeth in order to access the

Ref. No.	Response:	Applicant's Response:
28	Loss of Convenience. The convenience and enjoyment of friends popping in for coffee while passing the property will be lost.	 The Applicant has provided a response access to the Property from the A1 at
29	Beholden to 3 additional property owners. The new access road to the property will entail travelling through the property of 3 different owners. As such are very vulnerable to potential uses of the respective properties which would compromise the Northgate household.	 The Applicant maintains the response Written Representations [REP3-026] deadline 3 comments from the Applicant's Response to Deadline 4 S
30	Different usage. The different owners will have a different expectation on how the road should be maintained leading contention and possible conflict. For example, the farm use of the road will be very different to domestic use.	 The Applicant maintains the response Written Representations [REP3-026] deadline 3 comments from the Applic Applicant's Response to Deadline 4 S
31	Access to the rear of the property by car. To get access to the rear of the property (to carry out maintenance and manage the water supply) by car the new plans require a journey of over 1k, travelling through 5 different properties.	 The Applicant maintains the response Written Representations [REP3-026].
32	High level dependency on 6 different property owners acting reasonably. The new arrangement relies upon 6 different property owners to operate corroboratively and fairly in maintaining the access roads. There is a real risk that the access will become compromised with any relationship fall-out. This has happened in the past and unfortunately is likely to happen again. This arrangement will be a constant source of contention going forward and is not sustainable. Unfortunately, even before the route has been established this issue has created a conflict with one owner not accepting access through their property.	 The Applicant maintains the response Applicant's Response to Written Repr to point 29 above. The Applicant has also provided a res Lodge's position as to the access road
33	Extra Burden. The maintenance of the new access road will place an additional obligation on the property that will deter future buyers.	 The Applicant will provide compensat burden placed upon the property as a There are many properties bought an and maintenance provisions. In this ca associated with the proposed new acc with maintenance of the PMA.
34	Vehicle speed. The new PMA road does not have any speed limit or constraints. As such vehicles could reach speeds of 60mph. As pedestrians are expected to share the road with the vehicles this would pose a real safety risk, particularly at night.	 The rural nature of the PMA, narrowe vehicle speeds. The cross section of the by walkers. Users would be accessing the north, and the PMA would have a use, to be set out in the signage strate Environmental Management Plan (CE Requirement 4 of the draft DCO [REF
35	Farm shooting. In the past the farmer has participated in bird shooting in the same field as the new PMA. If this is to continue in the future, then it would not be safe to use the access road on those occasions.	1. The Applicant understands that there Applicant would suggest that any sho farmer shooting or bird scarers. The A landowner on future operations in the
36	Snow Clearance. There have been occasions in the past when snowfall would have would have left us blocked in the house for more than a week, (even with a 4X4 car) if our only means of access was the PMA. Three years ago, the local fulbeck road was impassable for over 2 weeks due to snow.	 The Applicant maintains the response Response to Written Representations the landowner for each section of the maintenance. This would apply to sno burden (if any) as a result of the Sche discussions as to compensation.



nse in relation to the closure of the direct at items 2 and 4, above.

se in point 4G1 of the Applicant's Response to] and point 1 of Follow-up response to icant – Reference 4G responded to in the Submissions [REP5-029].

se in point 4J1 of the Applicant's Response to 6] and point 1 of Follow-up response to licant – Reference 4G responded to in the Submissions [REP5-029].

se in point 4H1 of the Applicant's Response to].

se in points 4B1, 4B2 and 4I1 of the presentations [REP3-026] and the response

esponse in relation to the new owner of Capri bad at item 26 above.

ation in respect of any additional financial a result of the extended shared access. and sold with shared access arrangements case it is considered the improved safety access will outweigh any negative effect linked

ver widths and presence of bends will regulate of the PMA includes verges that can be used sing the residential properties or the fields to appropriate signs to discourage unauthorised ategy which will form part of the Construction CEMP) [REP6-025 and 026] secured by EP6-010 and 011].

e are no formal shoots held in this area. The ooting noises have been caused by either the Applicant will continue discussions with the e fields adjacent to the PMA.

se in points 4B1 and 4B2 of the Applicant's ns [REP3-026]. The standard provision is that ne proposed access would be liable for its now clearance. Additional maintenance heme is a matter to be addressed through

Ref. No.	Response:	Applicant's Response:
37	Road Cleaning. There is no provision for cleaning.	1. The Applicant maintains the response Response to Written Representations above.
38	Type of use on the PMA. At this stage there is no covenant protecting how the road will be used in the future. Without protection the road could be used to facilitate potential business use which radically increases road usage and add extra detriment to the property.	 Any future business uses or activities permitted would require planning perr of that development and separate to t opportunity to object or comment on a need to set out their traffic generation the locality in a Planning Application r accordingly, on a case by case basis, permission on the basis of taking according
39	Emergency services. The time taken for emergency services to reach the property will significantly increase. This also applies to other delivery services. There is a real risk that some services will refuse to deliver, particularly as it involves travelling over a private road.	 The Applicant acknowledges that the result in a greater distance to travel to direct access onto the A1 will be close Scheme. The Applicant does not cons for delivery services, as it will be cons Residential Roads and Footpaths in N Detailed design of strategic destinatio other approved signs are to be confirr CEMP [REP6-025 and 026] (referenc appropriate signage for the Scheme v uncertainty and that during construction clear to avoid creating route uncertainty and any diversions or clear dayertised and any diversion routes w uncertainty.
40	Navigation. As it will no longer be possible to navigate to the property by Google maps and other sat nav services this will create a number of problems in the future.	 As stated in point 3.1 of Follow-up res Applicant – Reference 4F, responded 4 Submissions [REP5-029], changing responsibility of the Applicant.
41	Outlook from access road. The planned route of the PMA is less than picturesque with the route passing by various constructions in poor repair and a large car park covered in road planning's.	 The Applicant has not assessed the v the exception of the point at which the Lodge and Northgate Farm, views of operation would not arise. As has pre the Applicant's Response to Written F 6/2 of Table 1-7 - Mark Hawes - Dead responses submitted for Deadline 3 - Response to Deadline 4 Submissions effects considers the effects on the operation.
Transp	ort	
42	Lost Bus Service. Having a regular bus service directly outside the property is a significant benefit to the property and has been well used over the years.	1. The Applicant has acknowledged in re Response to Deadline 4 Submissions impact on residents at Warreners Hou the loss of the bus stop in this location



se in points 4B1 and 4B2 of the Applicant's ns [REP3-026] and the response to point 36

es at Warreners beyond that which is currently ermission which would be based on the merits to the Scheme. Mr Hawes would have the any application. New developments would on as well as any other potential changes to made to NCC who would make their decision is, as to whether it would be able to grant ccess along this PMA.

e proposed access to the property would to and from the A1. However, the existing sed on the grounds of safety as a result of the nsider the proposed PMA to act as a deterrent nstructed to Northumberland County Council's Northumberland guidance.

tions for Advance Directional Signs (ADS) and irmed in the Signage Strategy. The outline nces S-PH3 and S-PH5) confirms that will be implemented to avoid creating route ction temporary signage and layout will be ainty. The outline CEMP (reference S-PH5) closures during construction will be will be clearly signposted and not lead to

esponse to deadline 3 comments from the ed to in the Applicant's Response to Deadline ng satellite navigation systems is not the

visual effects on users of the PMA as, with he PMA accesses the properties at Capri f the Scheme during construction and reviously been stated in response to point 2 of Representations [REP3-026] and Reference adline 4 Submission - Comments on - Part 1 responded to in the Applicant's hs [REP5-029], the assessment of visual occupants of the dwelling.

response 5A and B in the Applicant's ns [REP5-029] that there will be an adverse buse (including residents at Northgate) due to on. This forms part of the population and

Ref. No.	Response:	Applicant's Response:
		human health assessment for the Sch 12.10.18 of Chapter 12: Population ar
43	Alternative Bus service not viable. In order to catch the X15 service to Newcastle it will be necessary to walk 2k to nearest bus stop. This will add at least 1 hour to a return journey. However, the prospect of anyone from my family walking across unlit fields to catch a bus service in the winter is a nonstarter given the obvious safety concerns.	 The Applicant has acknowledged in re Response to Deadline 4 Submissions impact on residents at Warreners Hou the loss of the bus stop in this location human health assessment for the Sch 12.10.18 of Chapter 12: Population an
44	Footpath. For the last 25 years we have regularly used the council-maintained footpath through the woodlands directly west of the property. The removal of the footpath and the widening leaves the property land locked with no option to venture west of the property.	 The Applicant maintains the response Written Representations [REP3-026] a response to deadline 3 comments from Applicant's Response to Deadline 4 S designated footpath at this location, th in this vicinity, and the Applicant does locked.
45	Car sharing. In living alongside the A1 we are ideally positioned to take advantage of car sharing with friends who live further north. This will no longer be an option in the future.	 The Applicant has not previously beer which would be affected by the Schen sharing. The Applicant has provided a respons access to the Property from the A1 at
46	Bridleway Access. The plans currently do not include provision to preserve the existing bridleway access from the woodland to the stream.	 A new section of bridleway would be p 407/010, which would tie into the road This is also shown on Sheet 1 of the F and was acknowledged to Mr Hawes Representations [REP3-026]. As shown on Figure 1 of Appendix D submitted as part of the Applicant's W Hearings [REP4-029], the plan of the both sides that can be used by walker stream.
Landso	ape and Visual	
The pro	posed plans negatively impact the visual effect from all parts of the property, which include:	
47	View of the new PMA. The new access road approaches from the south of the property replacing the rolling fields outlook. It then wraps around the eastern hedgerow boundary of the property, before heading west across the north eastern corner of our property. As such the access road will dominate (and block views of countryside) the south, east and north outlook when viewed from all points of the garden.	 The Applicant maintains the response Hawes - Deadline 4 Submission - Cor Deadline 3 - Part 1 responded to in th Submissions [REP5-029]. Awareness once the hedgerow is established, and garden space would be substantially setablished.
48	View of widened A1 and traffic. The widened A1 will be visible from the majority of the property including the house, the garden, the approach road to the property and point of access to the property.	 The Applicant maintains the response Applicant's Response to Written Repr the outlook from the property. As has point 2 of the Applicant's Response to Reference 6/2 of Table 1-7 - Mark Hat on responses submitted for Deadline



cheme, as detailed at paragraph 12.10.15 and and Human Health Part A [APP-054]. response 5A and B in the Applicant's is [REP5-029] that there will be an adverse ouse (including residents at Northgate) due to on. This forms part of the population and cheme, as detailed at paragraph 12.10.15 and and Human Health Part A [APP-054]. se to point 3C of the Applicant's Response to] and has confirmed in point 1 of Follow-up om the Applicant – Reference 3C in the Submissions [REP5-029] that there is no there are no existing safe crossings of the A1 es not agree that the property will be land

en made aware of any car sharing schemes eme and the Scheme does not preclude car

nse in relation to the closure of the direct at items 2 and 4, above.

e provided, extending on from Bridleway ad network north of Morpeth at West View. Rights of Way and Access Plans [REP6-006] is in 5.6 of the Applicant's Response to Written

Warreners Private Means of Access Written Summary of Oral Submissions at proposed PMA includes 0.5m verges on ers accessing the woodland north of the

se to Reference 1C/2 of Table 1-7 - Mark comments on responses submitted for the Applicant's Response to Deadline 4 as of the PMA would be substantially mitigated and the views of the PMA from within the or screened.

se to point 1/C in Table 1-6 – Mark Hawes of the presentations [REP3-026] with reference to s also previously been stated in response to to Written Representations [REP3-026] and awes - Deadline 4 Submission - Comments e 3 - Part 1 responded to in the Applicant's

Ref. No.	Response:	Applicant's Response:
		Response to Deadline 4 Submissions effects considers the effects on the or
49	View of Layby and stationary HGV. The layby and stationary vehicles will be visible from the majority of the property including the garden, the approach road to the property and point of access to the property.	1. With reference to views of the propos has responded to this point at Item 14
50	View of Coronation trees. The pleasant outlook over the tree lined Coronation avenue will be lost along with hedgerow.	 The Applicant maintains the response Applicant's Response to Written Repr 2D/3 of Table 1-7 - Mark Hawes - Dea responses submitted for Deadline 3 - Response to Deadline 4 Submissions and replacement of existing roadside Coronation Avenue.
51	View of Character cottage. The westerly view of Northgate cottage will be replaced by the Swale access road. This also includes the felling of a number of trees in the woodland.	 The Applicant maintains the response Hawes - Deadline 4 Submission - Con Deadline 3 - Part 1 responded to in th Submissions [REP5-029] with referen Applicant also maintains the response Written Representations [REP3-026] Mark Hawes - Deadline 4 Submission Deadline 3 - Part 1 responded to in th Submissions [REP5-029] with respectives.
52	View of Noise Barrier. Although the partial noise barrier may assist noise it will not be pleasant to view. The noise barrier will be clearly visible from the house, the front and rear garden a	 It appears that text is missing from thi The response in item 2/1 of the Applie Representations [REP3-026] identifie and the proposed noise barrier would This would include the north facing el external spaces, including views to th A detailed response is provided at ite
53	Access road to the woods at the north. The access road providing access to the woods at the North will be visible from most of the garden.	 The Applicant has provided a response above.
54	View of Soil dump. During construction the soil dump will block views of countryside.	1. The Applicant has provided a respons area at item 25, above.
Noise a	nd Vibration	
55	Increase in noise levels. The increase in traffic travelling at higher speeds will significantly increase noise levels in the household and garden. The Applicant recognises that the increased traffic and speeds, (at opening) will raise the level of noise above Significant Observed Adverse Effect (SOAEL) safe levels. In comparing the noise levels between a dual carriageway and the current single carriageway it is very noticeable how much noisier the dual is compared to the single carriage.	 Points raised in relation to the predict at Northgate Farm have been address No. 7 row 3 (on page 81) of Table 1-8 Submissions [REP5-029] which in relation "1. With regard to the absolute noise levels p (2024), without Scheme scenario, noise level observed adverse effect level (SOAEL) on o night-time (albeit only marginally). In the opening year, with Scheme scenari place, noise levels at the building are predic



ns [REP5-029], the assessment of visual occupants of the dwelling. used layby and HGVs using it, the Applicant I4, above.

se to point 2/D in Table 1-6 – Mark Hawes of the presentations [REP3-026] and Reference eadline 4 Submission - Comments on - Part 1 responded to in the Applicant's ns [REP5-029] with reference to the removal e trees that form the southern limits of the

se to Reference 3B/1 of Table 1-7 - Mark omments on responses submitted for the Applicant's Response to Deadline 4 ence to the removal of North Gate House. The se to point 3A of the Applicant's Response to] and Reference 3F/1c and 3/3 of Table 1-7 on - Comments on responses submitted for the Applicant's Response to Deadline 4 ct to the loss and replacement of associated

his comment.

licant's Responses to Written ed that a combination of retained vegetation ld provide visual screening of the Scheme. elevation of the dwelling and immediate the west from the existing access point. em 71, below.

nse in relation to the access road at item 22,

nse in relation to the temporary soil storage

cted noise levels with and without the Scheme ssed by the Applicant previously within Ref -8 within Applicant's Response to Deadline 4 elation to this point stated:

predicted at the building, in the opening year vels are predicted to exceed the significant one façade during both the daytime and

rio with the proposed noise barrier (PNB1) in icted to exceed the SOAEL on one façade

A1 in Northumberland: Morpeth to Ellingham

Applicant's Response to Deadline 5 and 5a Submissions

Ref. No.	Response:	Applicant's Response:
		during the night-time only and to a slightly le Scheme scenario.
		3. In terms of noise level changes as a resu afforded by PNB1, a decrease in the repres Northgate Farm building during the daytime impact in the short-term."
56	Impact upon the garden. The Applicant does not provide any indication of the adverse noise impact within the garden area where we spend most of leisure time. For example, the point of access to the property will be circa 20 metres from the dual carriageway and totally exposed to the road and increased noise.	 Points raised in relation to noise with been addressed by the Applicant pre of Table 1-8 within Applicant's Respo- which in relation to this point stated: <i>The operational stage noise assessment</i> 041] (sic this reference should read [REP1-0 DMRB LA 111 Noise and Vibration as agree as submitted at Deadline 5). DMRB LA 111 predicted at noise-sensitive buildings.
		2. It should be noted that, as shown on Figure A, within Noise Addendum Appendix D Part the garden of the property are of no greater the magnitude of impact scale presented in back distances from the A1 carriageway the decrease, but road traffic will remain the domestical scale presented in the domestical scale by the decrease.
peak ho outside the mos	Impact on quiet periods. There will be a greater level of long-distance travel which is less constrained by peak hours. As such it is likely that the most noticeable increase in traffic (and noise) will be in the periods outside of peak hours, particularly the early evening period. This is where we will notice the noise increase the most as the current levels of traffic at this time are very low. Unfortunately, it is when we enjoy using the garden the most.	 Points raised in relation to noise leve addressed by the Applicant previousl Table 1-8 within Applicant's Respons which in relation to this point stated: <i>"1. Detailed traffic modelling of the changes</i> undertaken and is documented in Chapter 4 This traffic modelling has been undertaken in with a focus on weekday peak period flows traffic model forecasts indicate there will be including the A697 and the de-trunked A1 of and regional traffic rather than very long dis west such as the M6.
		2. As stated previously in point 2 of Ref. 7C Representations [REP3-026] the time period assessment (06:00 – 00:00 hours and 23:00 guidance contained with DMRB LA 111.
		3. The operational stage noise assessment [REP1-019] is therefore robust and in line w different time periods considered."



lesser extent than in the opening year without

sult of the Scheme, including the attenuation esentative noise level is predicted at the ne and night-time, resulting in a beneficial

thin the Northgate Farm garden area have reviously within Ref No. 7 row 1 (on page 80) ponse to Deadline 4 Submissions [REP5-029]

nt presented in the Noise Addendum [REP1--019]) is based on guidance contained within eed with NCC in the SoCG [REP4-016] (and 1 requires that noise level changes are

gure 4. Short-term Noise Level Change – Part ort 1 [REP1-021], the noise level changes in er than minor magnitude of impact based on in DMRB LA 111. As expected, at greater set the absolute noise levels within the garden will dominant noise source."

vels during different periods has been Isly within Ref No. 7C row 1 (on page 83) of Inse to Deadline 4 Submissions [REP5-029]

es in traffic flows and patterns has been r 4 of the Case for the Scheme [APP_344]. n in accordance with DfT WebTAG guidance, vs which will be the busiest time periods. The be a reassignment of traffic from parallel routes onto the Scheme, comprising a mix of local distance trips which tend to favour routes to the

7C of the Applicant's Responses to Written iods used for the operational road traffic noise :00 – 07:00 hours) are in accordance with

nt presented within the Noise Addendum with appropriate guidance including the

Ref. No.	Response:	Applicant's Response:
58	Noise levels increase with age of road. It is recognised that it is necessary to regularly resurface the road to minimise the noise impact. Unfortunately, I am not confident that this will happen as suggested. The stretch of the A1 south of this scheme has not been resurfaced in the last 25 years and is heavily pitted and worn.	 Points in relation to the resurfacing of Applicant previously within Ref No. 7 Applicant's Response to Deadline 4 S <i>"1. The Outline CEMP [REP4-013 and 014]</i> commitment (in Table 3-2 row A-N1) that the structures) will be laid with a low noise surfa- 'b' of this row states: "All existing sections of LNS (and if necessary, replaced again by the considered to be well maintained)."
		2. With regard to the resurfacing of the road [REP4-013 and 014] (and as updated at De- expected planned maintenance will include replacement of assets when they become lin
		3. Requirement 4 of Schedule 2 to the dDC to be constructed in accordance with the CE which must be based on the Outline CEMP Deadline 5). Further, paragraphs 4 to 6 of R developed by the end of the construction, ac operation and maintenance. The Scheme m accordance with the HEMP.
		4. As such, the maintenance requirements s 014] (and as updated at Deadline 5) are sec Planning Act 2008, a breach of the terms of offence. This should provide Mr Hawes with maintenance obligations, as set out in the C updated at Deadline 5)."
59	Partial Noise barrier. It is disappointing to be learn that there is no scope to extend the barrier to the full extent of my boundary leaving the majority of the property exposed to a significant increase in road traffic volume. This will be particularly noticeable at the point of entry to the property which will be totally exposed to the new carriageway. The constraints on the barrier length leaves the majority of the north facing aspect of the house fully open to the new dual carriageway. This includes 11 windows (8 on the upper tier) which have a direct line of sight to the new carriageway with negligible benefit from the noise barrier. Furthermore, the barrier offers no benefit to those parts of the garden that we spend most of our time and enjoy the most.	 Points in relation to the noise barrier previously within Ref No. 2 (on page Comments on Responses to Further "1. The operational stage noise assessment 019] is based on guidance contained within requires that noise level changes are predic
		2. Noise level predictions were undertaken a number of locations around the building, inc
		3. The proposed barrier has been designed such that the operational road traffic noise e The proposed barrier provides a meaningfu adverse effect and is also value for money,
		4. With respect to garden areas, it should be term Noise Level Change – Part A within No 021], the noise level changes in the garden greater than minor magnitude of impact bas presented in DMRB LA 111. As expected, a



of the Scheme have been addressed by the 7 row 2 (on page 81) of Table 1-8 within Submissions [REP5-029] which stated: 4] (and as updated at Deadline 5) include the the entire length of the A1 (apart from face (LNS) as part of the Scheme. Bullet point of LNS on the A1 will be replaced with a new the future year such that they can be

ad, paragraph 5.2.5 of the Outline CEMP leadline 5) states that: "In the longer term, e activities such as resurfacing the road and life expired."

CO [REP2-004 and 005] requires the Scheme CEMP approved by the Secretary of State, P [REP4-013 and 014] (and as updated at Requirement 4 require a HEMP to be addressing matters in the CEMP relevant to must then be operated and maintained in

s set out in the Outline CEMP [REP4-013 and ecured. Pursuant to section 161(1)(b) of the of this requirement would constitute a criminal th reassurance that the Applicant will meet its Outline CEMP [REP4-013 and 014] (and as

r have been addressed by the Applicant e 12) of Table 1-4 within Applicant's er Written Questions [REP6-043] which stated: nt presented in the Noise Addendum [REP1n DMRB LA 111 Noise and vibration which licted at noise-sensitive buildings.

n at upper floor level (4m above ground) at a ncluding on the northern façade.

d to mitigate noise levels at Northgate Farm effect at this property would not be significant. ful noise benefit, mitigates the significant t, therefore an extension is unnecessary.

be noted that, as shown on Figure 4: Short-Noise Addendum Appendix D Part 1 [REP1n of the property are predicted to be of no ased on the magnitude of impact scale at greater set back distances from the A1

Ref. No.	Response:	Applicant's Response:
		carriageway, the absolute noise levels within levels than those predicted at the building."
60	Soil Depot Noise. The close proximity of the soil store and the limited noise mitigation measures, will mean HGV vehicles accessing the soil store will increase noise levels during construction.	1. This query has been addressed in Rov
61	No vibration analysis. The Applicant response states, "Operational vibration is scoped out of the assessment methodology as a maintained road surface will be free of irregularities as part of project design and under general maintenance, so operational vibration will not have the potential to lead to significant adverse effects." In living at the property, it is very noticeable when large vehicles pass the property at fast speeds the house does vibrate. As this is not frequent it is something that we can tolerate. With increased speeds and HGV traffic we believe that this will become a common occurrence, taking the issue above any reasonable tolerance levels. Given the track record in maintaining other stretches of the A1 we have very low confidence that the road will remain free of irregularities.	 Points in relation to operational vibration previously within Ref No. 7G row 1 (or Response to Deadline 4 Submissions "1. Due to the widening of the A1 carriageway Northgate Farm, a proportion of the vehicles greater distance than is currently the case. F part of the Scheme and will be free from irrego DMRB LA111 section 1, operational vibration lead to significant adverse effects, it has ther undertake an assessment of operational vibration
		2. Points in relation to the resurfacing of 58 of this table.
Air qua	lity	
62	Degradation in air quality. In reporting on air quality, the Applicant is very focused on demonstrating that government threshold limits will be achieved and appears to have neglected the human element here. As recognised by the Highways England own on-line literature, increased traffic travelling at faster speeds will result in a degradation in air quality. Any degradation in air quality could have a direct impact upon my family's health.	 This point associated with degradation Applicant previously within Ref No. 9 r Applicant's Response to Deadline 4 S this point stated: <i>"2. The assessment of the effects of changes</i> ecological health) underpins the air quality as Quality Part A [APP-040] and Part B [APP-04 Scheme's ability to affect compliance with the annual mean standard for NO₂ of 40µg/m3.
		This standard is set for the protection of hum studies. In addition, the locations of modelled with the standards have all been chosen to re pollutants. In particular, R009 is representation Mr Hawes' property.
		3. It is unclear what Highways England literation no reference is given. However, as a general traffic travelling at faster speeds will always r impact of a change in traffic flows and speed basis.
		4. The air quality assessment for Part A [APF Scheme [APP-330] was undertaken in line w HA207/07 (and all associated Interim Advice 205], Part B [APP-275] and for a Scheme Op been undertaken in line with the updated DM accepted that the Scheme would result in inc



in the garden will decrease, and be at lower

ow 24 of this Table.

ation have been addressed by the Applicant on page 85) of Table 1-8 within Applicant's is [REP5-029] which stated:

vays as part of the Scheme adjacent to as using the A1 will pass Northgate Farm at a Furthermore, the road will be resurfaced as egularities. Therefore, in accordance with on is not expected to have the potential to erefore not been considered necessary to bration."

of the Scheme have been addressed in row

on in air quality has been addressed by the 7 row 1 (on page 86) of Table 1-7 within Submissions [REP5-029] which in relation to

es to air quality on Human health (as well as assessment undertaken in Chapter 5: Air 041]. The assessment assesses the he air quality standards – in particular, the

man health on the basis of epidemiological ed receptors used to determine compliance represent worst-case human exposure to tive of modelled pollutant concentrations at

rature is being referred to in the response, as ral point, it is incorrect to state that increased result in a degradation to air quality. The eds must be assessed on a case-by-case

PP-040], Part B [APP-041] and the cumulative with Highways England guidance documents e Notes). Sensitivity Tests for Part A [APP-Dpening Year of 2024 [REP3-012] have all MRB guidance document LA105. Whilst it is ncreases in pollutant concentrations arising

Ref. No.	Response:	Applicant's Response:
		from increased traffic flow along the A1 and the assessments and sensitivity tests outlin result in any exceedances of an air quality s there would subsequently be no significant
63	Accuracy of Analysis. Although I understand that it is standard industry practice to extrapolate the expected air quality from historical data, I am struggling to understand how an accurate forecast can be derived by such an approach given the wide range of different factors which have an impact upon air quality. Furthermore, there is no option for recourse should the forecast be wrong.	 This point associated with degradation Applicant previously within Ref No. 9 Applicant's Response to Deadline 4 st this point stated: <i>"1. The Applicant provided the technical det quality assessment in response to the comm Responses to Written Representations [RE]</i>
		"5. Whilst it is recognised that uncertainty ex undertaken within the air quality assessment ensure that the modelling undertaken to info appropriately conservative, and is consistent trends. The technical detail of the measures conservative model are covered in the Appl Applicant's Responses to Written Represent elaborated on any further here, but the Appl reiterated:
		Given the projected future concentrations (that the forecast air quality impacts are inco exceedance of the air quality standards, or the standards, is negligible. As such, no opt quality."
64	Access Road Fumes in the woodland. The access road will primarily be used by Northgate Farm and Capri Lodge. At the time of writing Capri Lodge has been split into 2 properties. In addition, the access road will be used by Robson farm, Northumbrian Water and various delivery services. Based upon current usage (even during lockdown) we are seeing over 20 journeys each day. We fully expect this to increase further when the access road is completed. With this level of traffic next to the woodland area there is no doubt that vehicle fumes will be noticeable.	 This point associated with degradation has been addressed by the Applicant Table 1-6 within Applicant's Response which in relation to this point stated: "The volume of traffic that would use the print would warrant inclusion within the dispersion Scheme i.e. a change in flow of 1000 vehicle pollution for the property and surrounding late extent, the A697 to the south-west.
		These roads and the impact of the Scheme Chapter 5: Air Quality Part A [APP-040] and 330]) and the assessment has demonstrate result of the Scheme."
65	Soil Deposit. The vehicles depositing the soil will add to air pollution during construction.	 This point associated with degradatic Applicant previously within Ref No. 3 Applicant's Response to Deadline 4 this point stated:



nd changes to traffic speeds, the conclusion of ined above was that the Scheme would not / standard at any human receptor, and that int air quality impact on human health."

tion in air quality has been addressed by the 9 row 1 (on page 86) of Table 1-7 within 4 Submissions [REP5-029] which in relation to

etail of the forecasting methods used in the air nment set out in Reference 9 in the Applicant's EP3-026]."

exists in the elements of the modelling ents, the Applicant has taken measures to form the air quality assessment is robust and ent with monitored pollutant concentrations and es taken to ensure a robust and appropriately plicant's response in Reference 9 in the entations [REP3-026] and have not be plicant's response to Reference 9E is

(well below the air quality standards), the risk correct to such a degree as would cause an r significantly increased risk of exceedance of ptions for recourse are necessary for air

tion in air quality as a result of the access road ant previously within Ref No. 1F (on page 31) of nse to Deadline 3 Submissions [REP3-026]

orivate access road is well below the level that ion modelling of the operation impacts of the icle AADT. The dominant local sources of land are the A1 to the west and, to a lesser

ne on them have been fully evaluated in nd Part B [APP-041], Appendix 16.4 [APPnted that no significant effects are likely as a

ion in air quality has been addressed by the 3 row 4 (on page 64) of Table 1-7 within 4 Submissions [REP5-029] which in relation to

Ref. No.	Response:	Applicant's Response:
		"1. The construction dust assessment set of and Appendix 16.4: Air Quality Likely Signific considers the impacts of construction activite Scheme red line boundary. The assessment associated with a major scheme, such as the stockpiles. The receptors, including Mr Haw Construction Receptors Part A [APP-078]. We mitigation measures, which are set out with (and as updated at Deadline 5), the concluse that there would be no significant air quality construction.
		2. The construction traffic assessment set of Quality Likely Significant Effects of the Sche construction traffic on pollutant concentration this assessment was that pollutant concentration air quality standards, and that there would be of construction of the Scheme, including at the
66	Construction Traffic. Will increase air pollution during the construction period.	 This point associated with degradation Applicant previously within Ref No. 3 Applicant's Response to Deadline 4 S this point stated: <i>"1. The construction dust assessment set out and Appendix 16.4: Air Quality Likely Signifit considers the impacts of construction activit Scheme red line boundary. The assessment associated with a major scheme, such as th stockpiles. The receptors, including Mr Haw Construction Receptors Part A [APP-078]. W mitigation measures, which are set out within (and as updated at Deadline 5), the concluss that there would be no significant air quality construction.</i>
		2. The construction traffic assessment set of Quality Likely Significant Effects of the Sche construction traffic on pollutant concentratio this assessment was that pollutant concentr air quality standards, and that there would b of construction of the Scheme, including at t
Enviror	nmental Impact	
67	Loss of Trees. The proposed scheme includes plans to fell a large number of mature trees which directly impact upon our enjoyment of the property. These include:	1. The Applicant has responded to the c 67A to 67G, below.



out in Chapter 5: Air Quality Part A [APP-040] ificant Effects of the Scheme [APP-330] vities at all receptors within 200m of the ent considers all potential construction activities the Scheme in question, including the use of wes' property, are shown in Figure 5.4 With the application of the recommended thin the Outline CEMP [REP4-013 and 014] usion of the construction dust assessment is ty effects resulting from the Scheme during

out in Appendix A of Appendix 16.4: Air heme [APP-330] considers the impact of ions at human receptors. The conclusion of trations remain would well below the relevant be no significant air quality effect as a result t Mr Hawes' property."

ion in air quality has been addressed by the 3 row 4 (on page 64) of Table 1-7 within Submissions [REP5-029] which in relation to

out in Chapter 5: Air Quality Part A [APP-040] ificant Effects of the Scheme [APP-330] vities at all receptors within 200m of the ent considers all potential construction activities the Scheme in question, including the use of the Scheme in question, including the use of the scheme in question of the recommended thin the application of the recommended thin the Outline CEMP [REP4-013 and 014] usion of the construction dust assessment is ty effects resulting from the Scheme during

out in Appendix A of Appendix 16.4: Air heme [APP-330] considers the impact of ions at human receptors. The conclusion of htrations remain would well below the relevant be no significant air quality effect as a result t Mr Hawes' property."

detailed points raised by Mr Hawes at items

Ref. No.	Response:	Applicant's Response:
А	The coronation Trees	1. The Applicant has responded to the c to Coronation Avenue at item 50, abo
В	Trees to the west of the property to facilitate access to the Soil store	 The Applicant has responded to the or to the trees to the west of the propert
С	Trees to the west of the property to accommodate a new access road for Swale maintenance	3. The Applicant has responded to the c to the trees to the west of the propert
D	Trees to the west of the property to facilitate Swale works.	4. The Applicant has responded to the c to the trees to the west of the property
E	Possible trees at the front of the property to facilitate new access.	5. The Applicant has responded to the c to the trees at the front of the property
F	Possible trees in the woodland to the east to facilitate the new access road.	 The Applicant has responded to the c to the trees in the woodland to the ea
G	Trees to the south of the property to facilitate the PMA culvert.	 The Applicant has responded to the c to the trees to the south of the proper including the avoidance of vegetation the PMA, and include two trees appro south-east boundary.
68	Loss of Hedgerow. The proposed scheme includes plans to remove hedgerow. This includes:	
Н	Hedgerow on the western side of the current single carriageway.	 The Applicant has previously respond relation to the removal of roadside he Mark Hawes - Deadline 4 Submission Deadline 3 - Part 1, Applicant's Response 029].
I	Hedgerow in the woodland to the east of the property to facilitate the new access road.	 The Applicant has responded to the of 1, above. The impacts on the area refined a hedgerow, will be mitigated with the indicated on Landscape Mitigation Magina
69	Impact upon wildlife. The PMA access road and widening of the A1 will restrict some wildlife from the property.	1. The Applicant has provided a responsitem 4, above.
Miscella	aneous	
70	Safety barrier. The increased traffic travelling at faster speeds increases the risk of vehicles veering off the road directly into our property. At this stage there are no plans to install safety barriers.	 Provision of vehicle restraint system (determined following a risk assessme design process, as secured by Requi The Order limits, as shown on the Ge includes sufficient verge widths along vehicle restraint system where it is re Hawes on 17/03/2021 by the Applican
71	Visual Effect -Noise Barrier. It would appear that other properties which look out onto a noise barrier have been assigned a significant visual effects rating but this has not been recognised for Northgate Farm. Although the majority of the 70 metre barrier will be visible from the property this is not considered a significant visual effect.	1. The response in item 2/1 of the Applie Representations [REP3-026] identifie and the proposed noise barrier would would include the north facing elevati spaces, including views to the west fr



detailed points raised by Mr Hawes in relation pove.

e detailed points raised by Mr Hawes in relation rty at item 21, above.

e detailed points raised by Mr Hawes in relation arty at item 21, above.

e detailed points raised by Mr Hawes in relation erty at item 21, above.

e detailed points raised by Mr Hawes in relation rty at item 9, above.

e detailed points raised by Mr Hawes in relation east at item 1, above.

e detailed points raised by Mr Hawes in relation erty at item 1, above. These measures,

on removal, would extend to the full length of proximately 170m to the south of the property's

nded to the points raised by Mr Hawes in nedgerows in Reference 2D/3, Table 1-7 on - Comments on responses submitted for sponse to Deadline 4 Submissions [REP5-

e detailed points raised by Mr Hawes at items referred to, including the impacted remnants of he provision of a boundary hedgerow, as Masterplan Part A, Rev 3 [REP4-060]. Inse in relation to wildlife crossing the PMA at

n (safety barriers) along the mainline will be nent in line with DMRB as part of the detailed uirement 3 of the dDCO [REP6-010 and 011]. General Arrangement Plans [REP6-005] ng the full length of the Scheme to install a required. This was communicated to Mr cant's principal contractor.

blicant's Responses to Written ied that a combination of retained vegetation Id provide screening of the Scheme. This ation of the dwelling and immediate external from the existing access point.

Ref. No.	Response:	Applicant's Response:
		 During ISH3, the Applicant provided of PNB1 and the assessment of visual of Applicant's post hearing notes, are readed and the Applicant's Written Summaries of Oraciare not reproduced in full here. The presence of a particular feature of generate a significant visual effect rate paragraph 1.17 of the Guidelines for (3rd Edition) the assessment of visual the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects as a whole - both additional the visual effects additional the visual effects additional the presence of th
72	Combined Effect. The impact on the scheme on the household is wide and far reaching. There is no recognition of this Combined impact in the DCO. The impact includes:	1. The combined effects assessment is Combined Effects Part A [APP-060], Effects Part B [APP-061] and, for the
А	Visual effect	Cumulative Effects [APP-062]. This a Volume 11 Section 2, Part 5 and The
В	Additional Noise	Seventeen - Cumulative Effects Asse
С	Impact of vibration	104.2. As detailed at item 8.2 of Table 1-2 of Table
D	Degradation of Air Quality	Submissions to Hearings [REP6-044] (Document Reference: 7.26.3) has be
E	Impact upon the environment – particularly loss of trees	on individual receptors. This technica includes further detail as to the comb
F	Loss of public transport	information is reproduced below. The residual effects already presented in:
G	Loss of unfettered access from a Public highway	Chapter 5 Air Quality Part A [APP-040]; Chapter 6 Noise and Vibration Part A [A
Н	Land locked to the west of the property	Chapter 7 Landscape and Visual Part A



l oral submissions in relation to noise barrier effects. These oral submissions, and the recorded at items 5.2 to 5.7 of Table 1-1 of the ral Submissions to Hearings [REP6-044] and

e of the Scheme does not automatically ating. Rather, in line with guidance provided in r Landscape and Visual Impact Assessment al effects carried out for the Scheme considers adverse and beneficial.

included the fact that the proposed noise creen the Scheme and traffic movements to I have the effect of reinforcing the capacity of provide screening, particularly in summer in leaf. The visual impact arising as a result of ould also be offset by the retained vegetation he northern elevation of the property. As I Visual Effects Schedule Part A [APP-217], Scheme as a whole in this location were e during construction, which (in line with the

1 of Chapter 7 Landscape and visual Part A adverse in winter year 1 and summer year 15, old in paragraph 7.4.61 of Chapter 7 044) is not considered to be significant.

s present in Chapter 15: Assessment of I, Chapter 15: Assessment of Combined I Scheme, in Chapter 16 Assessment of assessment has been informed by DMRB, ne Planning Inspectorate Advice Note sessment, with consideration of DMRB LA

of the Applicant's Written Summaries of Oral 4], a Combined Effects Technical Note been prepared to set out the combined effects cal note has been submitted at Deadline 7 and bined effects at Northgate Farm. This he combined effects assessment reports the h:];

[APP-042]; A [APP-044]; and

Ref. No.	Response:	Applicant's Response:
I	Impact on wildlife of the PMA access road and widening of the A1.	Chapter 12 Population and Human Heal
		 Construction – combined effects for Northga Table 2-2 of the Combined Effects Teshows that, during construction, there effect on changes to views, a slight at health and disruption to access to reswhich would have a combined effect of than large adverse (Significant). Residents, including at Northgate Farno residual effects after mitigation (nor and vibration during construction. Changes to public transport has been therefore, has not been included in th residential receptors. The combined effects of the Scheme in the Combined Effects Technical Northgate Statutory and Non-Statutory Designate assessment focuses on the combined residential receptors. The overall combined effects for North than large adverse (Significant) during Operation – combined effects for Northgate Farno combined effects for Northgate Farno
		 8. As set out in Table 2-3 of the Combin Reference: 7.26.3), during operation is slight adverse (not significant) effect for beneficial (not significant) effect from 9. During operation, residents at Northga annual mean concentrations of NO₂ a effects after mitigation (not significant adverse noise effects, with the proposition 10. Changes to public transport have been therefore, has not been included in the residential receptors. 11. The combined effects of the Scheme in the Combined Effects Technical Not Statutory and Non-Statutory Designat assessment focuses on the combined residential receptors. 12. The overall combined effects for North than slight beneficial (not significant) to operation.
73	Cumulative Effect. There is no recognition of the cumulative effect upon Northgate Farm of the Morpeth Northerly bypass scheme and the current A1 dual scheme. The Morpeth bypass had a number of direct	 It is assumed that by Northerly Bypas Northern Bypass. The Morpeth North constructed and is in operation. As th operational it would form part of the e



alth Part A [APP-054].

<u>gate Farm</u>

Technical Note (Document Reference: 7.26.3) re would be a large adverse (Significant) adverse (not significant) effect on human esidential properties during construction, t on residents of Northgate Farm of no worse

arm, within 200m of Part A would experience not significant) for air quality as well as noise

en assessed at a community level and, the combined effects assessment for

e on wildlife have been assessed separately Note (Document Reference: 7.26.3) under ated Ecological Sites. This is because the ed effect on ecological receptors rather than

rthgate Farm would therefore be of no worse ng construction.

bined Effects Technical Note (Document on residents at Northgate Farm would have a ct from changes to views, and a slight of changes to access to residential properties. hgate Farm would experience an increase in P_2 and PM₁₀ but this would not result in residual ant). There would also be no significant bosed noise barrier.

een assessed at a community level and, the combined effects assessment for

e on wildlife have been assessed separately Note (Document Reference: 7.26.3) under ated Ecological Sites. This is because the ed effect on ecological receptors rather than

rthgate Farm would therefore be no worse) to slight adverse (not significant) during

iss Mr Hawes is referring to the Morpeth thern Bypass scheme has already been he Morpeth Northern Bypass is already existing environment (i.e. baseline conditions)

Ref. No.	Response:	Applicant's Response:
No.	impacts upon the property. This included the placement of a very large road sign outside of the property adding to the detrimental visual effect.	for the environmental impact assessment impact assessment assesses change with the proposed Scheme in place. A scheme does not form part of the curr it informs the baseline against which the states of the states

Table 1-4 – Mark Hawes Written Summary

Ref. No.	Response:	Applicant's Response:
This docu	ment forms part of Deadline 6 submission in providing a written summary to the hearings he	d week commencing 19th April 2021
Wednesda	y, 21st April 2021 – Issue Specific Hearing 3	
1	In the Issue Specific hearing 2 responded to the possibility of an unaccompanied site visit to Northgate Farm. Although I understand that, on behalf of the Applicant, did not have any objections to the visit, he did caveat it, by suggesting that Northgate Farm was the only property from the Warreners group that had raised concerns with the PMA access road.	 To date, Mr Hawes has been the only submitted a representation to the Exa Examination.
2	From our understanding this statement is not accurate. There are only three properties from the Warreners group which are impacted by the PMA access road leading to Northgate Farm. They include Warreners House, Capri Lodge and Northgate Farm. All three properties have expressed concerns relating to this specific road in the past, albeit, not through the Examination process. As highlighted in the Compulsory Acquisition Hearing 2 the Applicant has a meeting planned with the owners of Capri Lodge to directly address concerns with the access road. The current owners have communicated directly to us that they will not accept any shared use of the access road over their property. Unfortunately, this stance is a serious concern and one that threatens the viability of the PMA.	 There are seven property owners with existing direct access onto the A1 clos with a private means of access (PMA) access to all properties throughout co The Scheme will require temporary lanamed residential and one agricultura The Applicant has consulted with all a to by Mr Hawes. A meeting was held 10/02/2021 to discuss access and acc raised; the compulsory acquisition cla confirmed in point 2 of Reference 4 or Deadline 4 Submissions [REP5-029] the stated that the proposed access route avoid a shared access situation, althous existing direct A1 access. Discussions Hawes and the new owner of Capri Lob be held in the week commencing 10/00 However, in the absence of an agreed relevant land required for the PMA, it rights granted to the Applicant and the legal rights.



sment for the Scheme. The environmental ge from the existing environment (baseline) . As such, the Morpeth Northern Bypass umulative assessment for the Scheme. Rather, h the Scheme is assessed.

ly resident of the Warreners group that has amining Authority as part of this DCO

ithin the Warreners group who will have their losed on the grounds of safety and replaced A) from West View, to the south, to provide construction and operation.

land take and permanent rights from the three ral landowner in order to construct the PMA.

affected landowners, including those referred d with the residents of Warreners House on ccommodation works with no significant issues laim is being finalised. The Applicant on page 70 of the Applicant's Response to] that the new owner of Capri Lodge initially te/location was acceptable, but now wishes to nough they support of the closure of the ns to achieve this are ongoing with both Mr Lodge, with whom the next meeting is due to //05/2021.

ed solution, should powers be granted over the it is not possible to prevent the exercise of hen passed to another party – they become

Ref. No.	Response:	Applicant's Response:
Thursday,	22nd April 2021 – Issue Specific Hearing 3	
Agenda: L	andscape and Visual Impacts	
1	As part of Landscape and Visual Impacts agenda item highlighted a concern relating to the visual effect of the planned noise barrier. It would appear that other properties which look out onto a noise barrier have been assigned a significant visual effects rating, but this has not been recognised for Northgate Farm. The Applicant was asked to explain if this was case and why. I do not believe that an answer was provided in the hearing. I would very much welcome a written answer, from the Applicant, to this question.	 During ISH3, the Applicant provided o PNB1 and the assessment of visual ef Applicant's post hearing notes, are rea Applicant's Written Summaries of Oral are not reproduced in full here. The presence of a particular feature of generate a significant visual effect rati paragraph 1.17 of the Guidelines for L (3rd Edition) the assessment of visual the visual effects as a whole - both ad In the case of Northgate Farm, this ind barrier would have the capacity to scre- west of the property. This would have existing boundary vegetation to provid when the planting would be in leaf. Th presence of the noise barrier would als foreground of the view from the norther planting is also provided for, to the eas comprising a hedgerow with trees to re Avenue, refer to Landscape Mitigation detailed in Appendix 7.3 Residential V Receptor ref 98, the impacts of the Sc therefore judged to be large adverse of stated threshold in paragraph 7.4.61 of [APP-044]) is significant, and slight ad which (in line with the stated threshold and visual Part A [APP-044]) is not co
Combined	and Cumulative Effects	
1	As part of Landscape and Visual Impacts agenda item it was acknowledged by the Applicant that the combined effect had been documented on a resident group basis (see table 15.4 of Chapter 15 of the EA [APP-060]) rather than on an individual property basis. An action was taken to provide further detail on individual properties. On a similar theme we would welcome further details on how the Applicant has measured the Cumulative effects as there does not appear to be any detail on the cumulative impact of the Morpeth Northern bypass scheme.	 As detailed at item 8.2 of Table 1-2 of Submissions to Hearings [REP6-044], (Document Reference: 7.26.3) has be on individual receptors. This technical includes further detail as to the combin effects assessment reports the residuation. Chapter 5 Air Quality Part A [APP-040]



oral submissions in relation to noise barrier effects. These oral submissions, and the ecorded at items 5.2 to 5.7 of Table 1-1 of the ral Submissions to Hearings [REP6-044] and

of the Scheme does not automatically ating. Rather, in line with guidance provided in Landscape and Visual Impact Assessment al effects carried out for the Scheme considers adverse and beneficial.

ncluded the fact that the proposed noise creen the Scheme and traffic movements to the e the effect of reinforcing the capacity of the ide screening, particularly in summer months The visual impact arising as a result of the also be offset by the retained vegetation in the nern elevation of the property. Additional ast of the Scheme, extending northwards and replace those removed within the Coronation on Masterplan Part A Rev 3 [REP4-060]. As Visual Effects Schedule Part A [APP-217], Scheme as a whole in this location were during construction, which (in line with the of Chapter 7 Landscape and visual Part A adverse in winter year 1 and summer year 15, Id in paragraph 7.4.61 of Chapter 7 Landscape considered to be significant.

of the Applicant's Written Summaries of Oral 4], a Combined Effects Technical Note been prepared to set out the combined effects al note has been submitted at Deadline 7 and bined effects at Northgate Farm. The combined fual effects already presented in:

40];

Ref. No.	Response:	Applicant's Response:
		 Chapter 6 Noise and Vibration Part A Chapter 7 Landscape and Visual Part Chapter 12 Population and Human He The relevant information in respect of item 2, below. 2. The Morpeth Northern Bypass schem operation. As the Morpeth Northern B part of the existing environment (i.e. b impact assessment for the Scheme. T assesses change from the existing en Scheme in place. As such, the Morpe part of the cumulative assessment for against which the Scheme is assesses
2	In addition, highlighted his ongoing frustration that the wide-reaching impact of the scheme on Northgate Farm had not been recognised by the Applicant and speculated that the group approach to measuring Combined effect was partially to explain for this. He then went onto to highlight that if he was playing Combined effect bingo, he would be doing very well with all squares ticked off.	 The combined effects assessment is p Combined Effects Part A [APP-060], O Part B [APP-061] and, for the Scheme Effects [APP-062]. This assessment h Section 2, Part 5 and The Planning In Cumulative Effects Assessment, with As detailed at item 8.2 of Table 1-2 of Submissions to Hearings [REP6-044] (Document Reference: 7.26.3) has be on individual receptors. This technical includes further detail as to the combi information is reproduced below. The residual effects already presented in: Chapter 5 Air Quality Part A [A Chapter 6 Noise and Vibration Chapter 7 Landscape and Visu Chapter 12 Population and Huit Construction – combined effects for Northga Table 2-2 of the Combined Effects Te shows that, during construction, there



A [APP-042];

rt A [APP-044]; and

Health Part A [APP-054].

of Northgate Farm has been summarised at

me has already been constructed and is in Bypass is already operational it would form baseline conditions) for the environmental The environmental impact assessment environment (baseline) with the proposed beth Northern Bypass scheme does not form or the Scheme. Rather, it informs the baseline sed.

s presented in Chapter 15: Assessment of Chapter 15: Assessment of Combined Effects ne, in Chapter 16 Assessment of Cumulative has been informed by DMRB, Volume 11 nspectorate Advice Note Seventeen h consideration of DMRB LA 104.

of the Applicant's Written Summaries of Oral 4], a Combined Effects Technical Note been prepared to set out the combined effects al note has been submitted at Deadline 7, and bined effects at Northgate Farm. This e combined effects assessment reports the :

APP-040];

n Part A [APP-042];

sual Part A [APP-044]; and

uman Health Part A [APP-054].

ate Farm

echnical Note (Document Reference: 7.26.3) e would be a large adverse (Significant) effect

Ref. No.	Response:	Applicant's Response:
		on changes to views, a slight adverse disruption to access to residential prop a combined effect on residents of Nort (Significant)
		 Residents, including at Northgate Farm no residual effects after mitigation (not and vibration during construction.
		 Changes to public transport has been therefore, has not been included in the receptors.
		 The combined effects of the Scheme of the Combined Effects Technical Note (Statutory and Non-Statutory Designate assessment focuses on the combined residential receptors.
		7. The overall combined effects for North than large adverse (Significant) during
		Operation – combined effects for Northgate F
		8. As set out in Table 2-3 of the Combine Reference: 7.26.3), during operation re slight adverse (not significant) effect fro (not significant) effect from changes to
		 During operation, residents at Northgat annual mean concentrations of NO2 ar effect after mitigation (not significant). noise effects, with the proposed noise
		10. Changes to public transport has been a therefore, has not been included in the receptors.
		11. The combined effects of the Scheme of the Combined Effects Technical Note (Statutory and Non-Statutory Designate assessment focuses on the combined residential receptors.
		12. The overall combined effects for North than slight beneficial (not significant) to operation.



e (not significant) effect on human health and operties during construction, which would have orthgate Farm of no worse than large adverse

arm, within 200m of Part A would experience not significant) for air quality as well as noise

n assessed at a community level and, he combined effects assessment for residential

e on wildlife have been assessed separately in e (Document Reference: 7.26.3) under ated Ecological Sites. This is because the ed effect on ecological receptors rather than

thgate Farm would therefore be of no worse ng construction.

<u> Farm</u>

ned Effects Technical Note (Document residents at Northgate Farm would have a from changes to views, and a slight beneficial to access to residential properties.

gate Farm would experience an increase in and PM₁₀ but this would not result in a residual t). There would also be no significant adverse se barrier.

n assessed at a community level and, he combined effects assessment for residential

e on wildlife have been assessed separately in the (Document Reference: 7.26.3) under ated Ecological Sites. This is because the ed effect on ecological receptors rather than

thgate Farm would therefore be of no worse to slight adverse (not significant) during

Ref. No.	Response:	Applicant's Response:
3	In response acknowledged the full house position but suggested that this was offset by mitigation provided.	 The Applicant disputes that it accepted this property. It is also not accepted th confirmed is the noise barrier. A respon assessment of PNB1 is provided abow Applicant is to provide a boundary here boundaries to provide screening to the to avoid the removal of trees on the not Written Summary of Oral Submissions Private Means of Access [REP4-029]) As stated in item 8.4 of Table 1-2 of th Submissions to Hearings [REP6-044], combination is already provided as far which it arises. For example, noise effi introduction of low noise surfacing and operation. Similarly, during construction the measures set out in measures S-N and 026] (and as updated at Deadline Table 1, Table 2 and Table 3 of Apper Residual Effects WQ GEN.1.35 [REP1 associated mitigation. No further mitig residual significant cross topic combin Appendix GEN.4 Justification for Signi [REP1-036]. Mitigation measures are 025 and 026] (and as updated at Dead Due to the mitigation of individual effer remaining potential mitigation at the co the construction operations, the availa considerations. To use an example: du receptor would be subject to combined quality (dust), the only additional mitig be the timing of each operation causin instance, vegetation would need to be take place (and removal is further con relating to nesting birds) and noise and Therefore, no further mitigation can be construction tasks and the effect rema combination.



that there was a "full house" of impacts at that the only mitigation that has been conse in respect of the visual impact ove and is not repeated here. Furthermore, the edgerow and trees to the northern and eastern he proposed PMA, in addition to the measures north-east boundary (as set out in Applicant's ns at Hearings - Appendix D - Warreners P]).

the Applicant's Written Summaries of Oral I, mitigation for each individual effect acting in ar as is reasonably practical within the topic in effects are already mitigated through the nd, where appropriate, noise barriers during tion this is provided through compliance with -N2 and S-N3 in the Outline CEMP [REP6-025 ne 6).

endix GEN.4 Justification for Significant P1-036] lists residual significant effects and igation measures are feasible to reduce the ined effects anticipated, as explained in inificant Residual Effects WQ GEN.1.35 re secured through the Outline CEMP [REP6adline 7).

fects on a topic by topic basis, the only combined effects stage would be the timing of lability of which is limited due to practical during construction where a hypothetical ed effects of landscape, visual, noise and air igation in respect of the combined effect would sing the relevant individual effect. In this be removed to allow construction operations to onstrained in timing by seasonal constraints and dust are generated by the same machinery. be offered through the staggering of nains as assessed, individually and in

Ref	Action Point	NCC Response	Applicant's Response
7	EA, Northumberland County Council (NCC) and Applicant to provide Position Statement in relation to the presence of Otters	We would defer to the EA although NCC recognise that otters are likely present on all watercourses in Northumberland as a general rule and would support the application of the precautionary principle in maintaining and improving connectivity across the road, which will be doubled or more in width. There is no disagreement with the process or survey methodology per se although note the general rule in ecology that lack of proof of presence is not proof of absence. Otter do not always leave spraint or other field signs and male otters have a range of up to 30km overnight.	 For clarity, otter was recorded along waterco has been proposed and secured in measures Outline CEMP [REP6-025 and 026] (and as to As detailed in Appendix F Otter Position Stat of Oral Submissions to Hearings [REP6-048] from Northumberland County Council (NCC) methodology or conclusions in respect of ass measures, for Part A. As such, the position d position in relation to Part A is assumed to be Common Ground with NCC [REP6-030]. The by the Applicant to relate to Part B, where ott out in Table 9-9 of Chapter 9: Biodiversity Pa As detailed in Appendix F Otter Position Stat Hearing (ISH) 3, NCC stated that they would role as the local planning authority. The Appl response to EIA scoping or prior to the subm made an assessment of otter based on desk records centre (Environmental Records Infor surveys undertaken by the Applicant between made aware by NCC that in its view a precau. Northumberland County Council does not ha should be assumed to be present and did no Environmental Impact Assessment for Part B As detailed in Appendix F Otter Position Stat conclusion of likely absence is set out in full to Applicant's Response to Deadline 4 Submiss study records for Part B identified historic otter returned from 2015 approximately 1km to the recent otter casualty on the A1 (within the Or addition to the desk study, otter field surveys surveyors in accordance with best practice g undertaken along watercourses spanning eitt 2016, 2017, 2018 and 2019, with no evidence any watercourses or riparian habitat within th nature of the desk study results, the negative and the presence of predominantly suboptim "likely absent" classification for otter within th nature of the desk study results, the negative and the presence of predominantly suboptim "likely absent" classification for otter within th nature of the desk study results, the negative and the presence of predominantly suboptim "likely absent" classification for otter within th nature of the desk study results, the negative and the



courses for Part A and appropriate mitigation res A-B2, A-B8, A-B10 and A-B17 of the s updated at Deadline 7).

atement to the Applicant's Written Summaries 8], the Applicant has not received comments C) identifying disagreement with the ssessment of otter, or the proposed mitigation detailed below is exclusive to Part B and the be agreed as set out in the Statement of ne response provided by NCC is understood otters were concluded as "likely absent", as set Part B [APP-049].

atement [REP6-048], during Issue Specific Id usually assume presence of otter in their plicant was not informed of this position in mission of the application for the Scheme, and sk study records obtained from the local ormation Centre (ERIC) North East) and een 2016 and 2019. The Applicant was not autionary approach should be taken. Similarly, have a published policy to the effect that otter not comment to this effect during scoping of the B (or, for completeness, Part A).

atement [REP6-048], "The Applicant's Il within Items 3 and 20-26, Table 1-4 of the ssions [REP5-029]. By way of summary, desk otter records, with the most recent record he east of the A1 carriageway. The most Order limits of Part B) dates back to 2011. In ys for Part B were undertaken by experienced guidelines (Chanin, 2003)¹. Surveys were either side of the existing A1 carriageway in nce of otter activity or presence recorded along the Order limits or survey area. Of the historic ve field survey results over a number of years mal habitats to support the species informed a the Part B Order limits."

d therefore, in general, extension to culverts. owing extension, would continue to maintain mammal passage (including two cattle creeps the Kittycarter Burn, all of which provide

agree with the process or survey methodology. ack of proof of presence is not proof of d by assessors as best practice when defining e Applicant acknowledges that otter do not

Ref	Action Point	NCC Response	Applicant's Response
			 always leave spraint or other field signs and although as the Applicant completed survey would be anticipated that some evidence wo 7. Nevertheless, post-construction monitoring, 025 and 026] (and as updated at Deadline 7 the Environment Agency's Deadline 4 subm 8. As discussed on a call with NCC's Ecologist Appendix F Otter Position Statement [REP6 discussions with the Environment Agency of evidence for the presence of otter. Further p study area for Part B was provided by the E April, and the Applicant is considering this a at key crossing locations. 9. The Applicant is considering provisional idea The Applicant is actively engaging with the Environment Agency. The Applicant is expessional idea to publicant is expessional idea at Deadline 8. 10.¹ Chanin P (2003). Monitoring the Otter Lutra Monitoring Series No. 10, English Nature, P
		It is considered that there is a credible risk of road casualties (with EA reporting additional records to those within an Environmental Records Information Centre North East (ERIC) increasing with the widening of the route	 11. As above, this statement is understood by the 12. As the Applicant concluded likely absence of identified as a result of the widening of the result of the road and therefore, in general, extension culverts that, following extension, would retar (particularly mammals) except in times of flow White House Burn and a Tributary of the Kitt mammal passage). 13. However, as discussed on a call with NCC's within Appendix F Otter Position [REP6-048 discussions with the Environment Agency or evidence for the presence of otter. Further presence of otter. Further presence of otter. Further presence of otter. Further presence of otter and the Applicant is considering this an in Part B at key crossing locations, which we mortalities of otter.
		In Part A we strongly support the inclusion of crossing protection and safe crossing points for wildlife and support that on Part B also. Monitoring immediately prior to or post-construction is not the preferred option as retro-fitting such features would be considered excessively costly and disruptive and may have significant impacts on delivery. Our preferred option would be to have such features included in design from the start of the programme, benefiting a range of wildlife as well as otters. The position on otters also relates to that for culverts as these are	 14. The Applicant acknowledges that NCC support safe crossing points for wildlife on Part A. The the response above. 15. Post-construction monitoring, measure B-B3 (and as updated at Deadline 7), was an add response to the Environment Agency's Dead 076]. 16. As discussed on a call with NCC's Ecologist Appendix F Otter Position Statement [REP6]



nd that male otters have large homes ranges, eys over an extended period (2016 to 2019), it would be observed if otter were present. g, measure B-B30 of the Outline CEMP [REP6-7), was proposed at Deadline 5 in response to missions in respect of otter [REP4-076]. est on 06 May 2021 and detailed within P6-048], following ISH3, the Applicant held on 23 and 30 April 2021 to explore the possible evidence of otter adjacent to the Environment Agency at the meeting on 30 and the potential need for fencing along Part B

eas for fencing at four locations along Part B. Environment Agency and Northumberland ng progress to seek a resolution with the pecting to be in a position to provide a

tra lutra. Conserving Natura 2000 Rivers Peterborough

the Applicant to relate to Part B. of otter for Part B, no significant effect was road. Further, Part B involves the widening of on to culverts. This includes a number of etain the ability to offer free passage to wildlife flood. This includes two cattle creeps along Kittycarter Burn which provide ample space for

C's Ecologist on 06 May 2021 and detailed 48], following ISH3, the Applicant held on 23 and 30 April 2021 to explore the possible evidence of otter adjacent to the Environment Agency at the meeting on 30 and the potential provision of mammal fencing would reduce the potential risk of road traffic

pports the inclusion of crossing protection and The position in relation to Part B is detailed in

B30 of the Outline CEMP [REP6-025 and 026] Iditional measure proposed at Deadline 5 in Padline 4 submissions in respect of otter [REP4-

st on 06 May 2021 and detailed within P6-048], following ISH3, the Applicant held

Ref	Action Point	NCC Response	Applicant's Response
		features for which good design is paramount to ensure otters can continue to commute throughout the area.	discussions with the Environment Agency or evidence for the presence of otter. Further p study area for Part B was provided by the Er April. The Applicant is considering this and the key crossing locations (culverts) to guide otte points beneath the road and maintain conner-
		Where present (noting some evidence in early surveys in the ES Appendix 9.3 at APP-300) water vole are under-reported in recent years, considered rare in the County, and where pre- construction updating surveys confirm presence suitable mitigation will be required. It is acceptable for this to be included in the Schedule of Requirements.	 17. This matter was discussed with NCC's Ecolor confirmed that, as detailed in paragraph 4.1 Vole Report Part B [APP-300], a survey under recorded potential water vole field signs alon were not conclusively attributed to water vole indicating presence and activity of this species significant factor reducing the likelihood of we that mink can eradicate a water vole populate Updated field surveys were undertaken in 20 water vole activity or presence was recorded 18. As detailed in Table 9-9 of Chapter 9: Biodive consideration the potential (but unconfirmed) 2016 surveys and the presence of mink (as considered likely absent from within Part E 19. A pre-construction walkover survey for water accordance with measure B-B18 of the Outli updated at Deadline 7). Requirement 7, School 11] states that "following pre-construction s the authorised development, a) a protected s there is a reasonable likelihood of it being prevorks must cease until a scheme of protection submitted to and approved in writing by the S 20. The Applicant has engaged with Northumber that they are satisfied with the existing Requirement of common ground issued at the draft statement of common ground issued at the set of the submitted to and approved in writing by the S
8	NCC and Applicant to confirm position in relation to any further need to provide non-motorised user improvements.	The Council's position in relation to the need to provide for non- motorised users for the scheme has been set out in previous written submissions; the most recent being to Deadline 4 (REP4- 074). This matter was discussed in depth in the last Hearing Session where points of disagreement in relation to the applicant's response submitted at Deadline 5 (REP5-029) were debated. It is clear that the basic position remains divergent on this matter between the applicant and NCC and therefore, unless the ExA require, we see no benefit in preparing a rebuttal to the technical comments made by the applicant if the basic principle is not agreed. We are willing to make suggested amendments to the key elements of the dDCO in relation to	 The Applicant's position remains as set out i Council - Any post-Hearing Notes Requested [REP5-042]. As explained during ISH3 on 22 Written Summaries of Oral Submissions to H is that the provision of facilities for non-moto Scheme in compliance with the NPSNN. As provide the additional facilities requested by Designated Funds working group with repress their first meeting in February 2021. The sec to triage through the listing of potential project



on 23 and 30 April 2021 to explore the possible evidence of otter adjacent to the Environment Agency at the meeting on 30 the potential provision of fencing in Part B at tter (and other wildlife) into the safe crossing ectivity to commute through the area.

logist on 06 May 2021. The Applicant 1.2 to 4.1.4 of Appendix 9.3 Otter and Water dertaken in 2016 by the Applicant may have ong Part B. However, the field signs recorded ole and field signs of mink were also recorded, cies in the area. Presence of mink is a water vole occurring. It is generally accepted ation if present.

2018 and 2019 [APP-300] and no evidence of ed.

iversity Part B [APP-049], "taking into d) water vole field signs recorded during the s confirmed through scat presence), water vole B and Part B Survey Area."

er vole will be undertaken as good practice, in tline CEMP [REP6-025 and 026] (and as hedule 2 of the Draft DCO [REP6-010 and survey work or at any time when carrying out d species is shown to be present, or where present ... the relevant parts of the relevant tion and mitigation measures has been a Secretary of State."

erland County Council to request confirmation uirements within the Draft DCO [REP6-010 s Ecologist confirmed that the Requirement this engagement has been captured within the at Deadline 7.

t in Table 1-3 – Northumberland County ed at the Hearings - Response to Point 36 22 April 2021 and recorded in the Applicant's Hearings [REP6-044], the Applicant's position torised users is satisfactorily addressed by the s such, the Applicant does not propose to y Northumberland County Council. esentatives from the Applicant and NCC had

econd session is arranged for 14th May 2021 ects and agree their viability.

Ref	Action Point	NCC Response	Applicant's Response
		ensuring future delivery of the suggested NMU route should the ExA consider this to be appropriate.	
9	NCC and EA to respond to the Applicant's approach to construction mitigation documents.	We accept the Construction Environmental Management Plan (CEMP) as an outline document subject to further revision but defer to EA and NE especially regarding impacts on the River Coquet and Coquet Valley Woodlands SSSI. We would like to see a greater level of narrative added to the Outline CEMP in relation to the contents of a LEMP to be submitted at a later date. This should confirm the commitments that will be contained in the detailed LEMP and set out the philosophy and timings of the proposed LEMP measures. Subject to the receipt of these details in some form, we are content that an Outline LEMP is not required as part of the DCO application.	 The Applicant notes that Northumberland Co [REP6-025 and 026] submitted at Deadline 5 reflected in the SoCG with NCC. The Applica and Natural England to ensure all appropriat CEMP [REP6-025 and 026] (and as updated The Outline CEMP [REP6-025 and 026] was on how the CEMP and LEMP (if produced) w the LEMP would align with the CEMP and HI other documents that might influence the LEI consider an Outline LEMP to be required dur welcomed.

Table 1-6 – Northumberland County Council - Responses to ExQ2

Ref	Action Point	NCC Response	Applicant's Response
Biodive	rsity & Habitats Regulation	1	1
BIO2.4	The Applicant submitted an Updated Biodiversity Air Quality Assessment at	With regard to the Updated Biodiversity Air Quality DMRB Sensitivity Assessment [REP3-010] we would defer to NE who are the technical specialists.	 This is acknowledged by the Applicant, who regarding the air quality assessment on biod
	D3 [REP3- 010]. NE is asked to comment on the report generally and particularly in respect of the impacts on the River Coquet and Coquet Valley Woodlands SSSI. Are NE's concerns resolved and if not, what are the consequences?	We understand that there is new guidance upcoming which would resolve the disparity between NE and HE on air quality impact assessment (SOCG REP5-016). The impact of increased traffic is likely to be offset by overall downward trends in vehicle emissions driven by cleaner technologies.	 At present, there is no new guidance in relation biodiversity. As such, LA 105 Air Quality related assessment (as used for the Updated Bio Assessment [REP3-010]). The Applicant agrees that the predicted dow cleaner technologies would reduce the level Scheme delays rather than reverses the future contribution to nitrogen deposition (paragrap DMRB Sensitivity Assessment [REP3-010]).
	NCC is also asked to comment on the findings of the report	The impact is likely to be localised in the vicinity of the new crossing on the R. Coquet and Coquet Valley Woodlands SSSI.	 For the River Coquet and Coquet Valley Woo accordance with LA 105 Air Quality identified as a result of increased nitrogen deposition f Applicant agrees that, in general, impacts (if deposition are localised and adjacent to the a



County Council accepts that the Outline CEMP e 5 is agreed (subject to further revisions), as cant is working with the Environment Agency ate measures are captured in the Outline ed at Deadline 7).

as updated at Deadline 6 to provide narrative would interact. Diagram 1-1 illustrates how HEMP. Diagram 1-2 shows the numerous .EMP. NCC's confirmation that they do not luring the course of the examination is

p remains engaged with Natural England odiversity.

ation to the assessment of impacts of air quality remains the appropriate guidance to inform Biodiversity Air Quality DMRB Sensitivity

wnward trend in vehicle emissions driven by el of impact of the Scheme year on year. The ture predicted decreases in the road uph 2.1.20, Updated Biodiversity Air Quality).

oodlands SSSI, the assessment [REP3-010] in ed that there would not be a significant effect from vehicle emissions. However, the if any) as a result of increased nitrogen e affected roads.

In advance of new agreed national guidance bespoke approach is likely to be required here. Mitigation is not possible/practicable.

It is for NE and the applicant to mutually agree this bespoke
approach to impact assessment and appropriate compensation
for that impact.

Strategic compensation to reduce atmospheric concentration of N in other sectors likely suitable compensation with HE working with other delivery partners with links to e.g. catchment schemes with agriculture.

The need for compensation arises as the site is already over the critical load for N.

- 5. National level discussions are ongoing between the Applicant and Natural England discussions at a national level.
- 6. As detailed in the Applicant's Written Summary of Oral Submissions to Hearings at Deadline 6 [REP6-044], the Applicant's understanding of Natural England's position is discuss the air quality impacts of the Scheme is being arranged (provisionally for the the date of the meeting).
- 7. In the Updated Biodiversity Air Quality DMRB Sensitivity Assessment [REP3-010], there same), Well Wood Ancient Woodland and two veteran trees.
- 8. The Applicant agrees that mitigation is not possible or practical for these four receptors, February 2021 (as detailed within the draft Statement of Common Ground with NCC [REP6-030] and the draft Statement of Common Ground with Natural England [REP6-Applicant comprise 1) a vertical barrier of at least 9m in height and 2) speed limits the Applicant or through consultation with NCC and Natural England.
- 9. The Applicant agrees with NCC that it may be necessary to seek agreement with Natural England at a Scheme level. The Applicant confirms that discussions are ongoing with Natural England in order to reach agreement as to the impact assessment and compensation.
- 10. The Applicant has considered NCC's comment that suitable compensation could involve although the Applicant has not been able to secure such measures. The Applicant is to the site/habitat. The Applicant will actively engage further with NCC and Natural of proposals at Deadline 8.
- 11. Whilst it is correct to identify that the critical load for each site/habitat assessed is already



regarding LA 105 Air Quality. Both the Applicant and Natural England are in agreement that a resolution at a national level is the preferable way forward, although agree that it may be necessary to seek agreement at a scheme level depending on the timescales of

that, at a local level, the measures to render the Scheme acceptable to Natural England are capable of being agreed. A meeting between the Applicant and Natural England to week commencing 17 May 2021), and the outcomes of this meeting will be captured in the updated Statement of Common Ground to be submitted at Deadline 8 (depending on

are four receptors with significant effects: Borough Wood Local Nature Reserve (LNR) and Ancient Woodland (considered as a single receptor as the impacted areas are the

which was discussed and agreed with NCC and Natural England during a meeting on 05 031]). Mitigation measures identified in LA 105 Air Quality that have been explored by the adjusted for air quality. Option 1 is not considered viable due to the visual impacts and safety implications at the sites of impact and option 2 is not viable as it goes against the objectives of the Scheme. No further viable mitigation measures have been identified by

measures to reduce nitrogen deposition from other sectors/sources (such as agriculture), currently exploring opportunities for compensation for the theoretical damage of habitat through provision of planting of equivalent habitat and/or opportunities for enhancement (improvement), through provision of measures to address existing threats and pressures England on this matter and envisages to be in a position to provide a substantive update

exceeded, the Applicant disagrees with NCC's statement because it is not exceedance of a critical load in the baseline that triggers compensatory provision. The need for mitigation or compensation arises due to the significant effects identified as a result of impacts from increased nitrogen deposition as a consequence of the Scheme. This reflects paragraph 4.3.12 of Chapter 4: Environmental Assessment Methodology [APP-039], which states, "where significant adverse environmental effects are identified, mitigation measures are

	required to remove, reduce or offset the impasing significance".
The ASNW and neighbouring non ASNW woodland at Coquet crossing is already impacted by emissions from the existing road – baseline consideration. How much the change is significant against this baseline when considered against the system being over capacity for N (critical load)	 12. The Applicant has no evidence to confirm that woodland (ASNW) and non ASNW) associate Woodlands SSSI and Coquet River Felton Patover the River Coquet is already being impact However, as detailed above and in paragraph DMRB Sensitivity Assessment [REP3-010], these two designations is currently exceeded Scheme. 13. For the River Coquet and Coquet Valley Wood ancient woodland) and Coquet River Felton Faccordance with LA 105 Air Quality identified adverse (not significant) effects, respectively, from vehicle emissions.
We understand there is also some discussion with NE/HE over the need for ammonia deposition modelling but again (as we are for normal planning cases) we would look to NE's technical specialists for guidance.	14. The assessment of impacts from air quality or completed in accordance with DMRB LA 105 specifies that, for designated habitats, the po NO2 (concentrations and subsequent deposition need for an ammonia deposition assessment undertaken and is not proposed.
Other woodlands – offset improvement schemes being investigated (small scale localised improvements on heavily used sites around the R. Blyth and Wansbeck) – detail required but general approach is accepted.	 15. The Updated Biodiversity Air Quality DMRB S significant effects in relation to Borough Woo Woodland (considered as a single receptor a along the River Wansbeck, and Well Wood A Blyth. 16. Further to the meeting held with NCC and Na Applicant can confirm that they are exploring degradation to woodland habitat as a result of emissions due to the Scheme. This may invo and/or enhancements (improvements) to the measures to offset existing threats and press 17. The Applicant welcomes NCC's agreement with the Applicant's Written Sur submitted at Deadline 6 [REP6-044], the Applicant recountryside, Parks and Green Spaces team 19. progress discussions further. The Applicant r 2021, confirming that they would review opport enhancement measures at Borough Wood ar suggested options from NCC on 11 May 202 on this matter. The Applicant envisages to be of proposals at Deadline 8.
However, the scheme's air quality impacts are best addressed through a strategic compensation scheme which reduces atmospheric pollutants (N) via agriculture. Questions in discussion on and practicability of those however a commitment	20. The Applicant will continue to discuss with No could be delivered to address the significant Biodiversity Air Quality DMRB Sensitivity Ass envisages to be in a position to provide a sub



pacts [compensation] or reduce their

hat the woodland (ancient semi-natural ated with the River Coquet and Coquet Valley Park LWS at the location of the new bridge acted by emissions from the existing road. uph 2.1.9, Updated Biodiversity Air Quality , the critical load of the woodland habitat at ed, and would continue to be, without the

oodlands SSSI (which contains Duke's Bank n Park LWS, the assessment [REP3-010] in ed that there would not be neutral and slight ly, as a result of increased nitrogen deposition

on biodiversity (designated habitats) has been 05 Air Quality guidance. LA 105 Air Quality collutant included within the assessment is sition). LA 105 Air Quality does not specify the ent. As such, an assessment has not been

B Sensitivity Assessment [REP3-010] identified bod Local Nature Reserve (LNR) and Ancient as the impacted areas are the same) located Ancient Woodland located along the River

Natural England on 05 February 2021, the ng opportunities to address the theoretical t of increased nitrogen deposition from vehicle volve compensation through woodland planting ne designated sites through the provision of ssures.

with this approach.

ummaries of Oral Submissions to Hearings pplicant has been awaiting a response from the m at NCC in order to

t received a response from NCC on 06 May portunities for compensatory planting and and Well Wood. The Applicant received 021 and will actively engage further with NCC be in a position to provide a substantive update

NCC the potential compensation actions that at air quality effects identified in the Updated ssessment [REP3-010]. The Applicant ubstantive update of proposals at Deadline 8.

 BIO2.5 In this LIR (REP1071) BIO2.6 The Applicant's responsed to the URA Septication activity of the purposed to the URA statement to outstanding objections. The Applicant there on the LIR at D3 (REP3-025) responsed to the Conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the Applicant ta is sudd additional assessment Report (REP1-043); We agree with the conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the difference to the Comments on the LIR at D3 (REP3-025) responsing the paragraph 6.7.1 of the LIR at D4 (REP3-025) responsing the response with the conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the Applicant ta is sudd additional assessment Report for Change Request REP1-013) – NE argreement January 2021. We agree with scope (10km) and agree with the conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the Applicant ta is sudd additional assessment Report for Change Request Report for Change Request Reports Request Report for Change Request Request Reports Request Reports Request Request Reports Reports Request Request Request Request Request Reports Request Request Request Request Request Request Request Request Request Reports Request Request Request Request Request Request Request Request Request Request				
 BIO2.5 In this LIR (REP1071) BIO2.6 The Applicant's responsed to the URA Septication activity of the purposed to the URA statement to outstanding objections. The Applicant there on the LIR at D3 (REP3-025) responsed to the Conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the Applicant ta is sudd additional assessment Report (REP1-043); We agree with the conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the difference to the Comments on the LIR at D3 (REP3-025) responsing the paragraph 6.7.1 of the LIR at D4 (REP3-025) responsing the response with the conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the Applicant ta is sudd additional assessment Report for Change Request REP1-013) – NE argreement January 2021. We agree with scope (10km) and agree with the conclusions (NO LSE). BIO2.6 The Applicant's comments on the LIR indicate that the Applicant ta is sudd additional assessment Report for Change Request Report for Change Request Reports Request Report for Change Request Request Reports Request Reports Request Request Reports Reports Request Request Request Request Request Reports Request Request Request Request Request Request Request Request Request Reports Request Request Request Request Request Request Request Request Request Request			welcome (presumably with reporting/monitoring mechanisms to demonstrate. Figures are available giving robust and widely accepted data on reduction achieved through e.g. covered muck stores which could be used to quantify the impacts of such a	
Comments on the LIR [REP3- 025] responding to paragraph 6.7.1 of the LIR indicate that the Applicant has issued additional assessment information comprising	BIO2.5	NCC stated (paragraph 5.48) that it was considered far from clear that the loss of ancient woodland was being addressed satisfactorily from a spatial point of view in terms of the wording of Policies ENV1 and QOP 4 in the emerging Northumberland Local Plan. It was recognised by NCC that while the policies cannot be given full weight, neither of the parts quoted is the subject of significant outstanding objections. The Applicant responded to the LIR at D3 [REP3- 025]. NCC is asked to comment on the Applicant's response within the context of NCC's statement that the overall ancient woodland strategy is welcomed (LIR	addresses the issue of 'exceptional circumstances' and that the woodland strategy as agreed with NE (subject to some fine detail) is acceptable compensation. We also agree that the applicant has addressed the mitigation hierarchy and that the crossing at this point is the 'least harm' option. Therefore we consider that the reasons for this development and the compensation strategy (12:1 replacement, soil translocation and 50 year management strategy of a new woodland contiguous with the SSSI) are appropriate and in accordance with emerging plan policies.	 The Applicant welcomes NCC's agreement of 'exceptional circumstance' (for the purposes regard to the loss of ancient woodland habits 054 and 055] as acceptable compensation a strategy align with emerging local planning p The Applicant understands NCC's reference reference to the Ancient Woodland Strategy, refined at detailed design (as identified within Request [REP4-054 and 055]. These include right of way beneath the bridges over the Riv 055]), an arboricultural method statement (p practicalities of material salvage and translow [REP4-054 and 055]) and an Ancient Woodl (Section 5 [REP4-054 and 055]). The Ancient to be developed and refined at detailed design 42, A-B43, A-B44, A-L9, SW-L1 and SW-B (as updated at Deadline 7). The Ancient Wo Requirement 15, Schedule 2 of the Draft DC
LIR indicate that the Applicant has issued additional assessment information comprising	BIO2.6	Comments on the LIR [REP3- 025] responding to paragraph 6.7.1 of the LIR indicate that the Applicant has issued	agreement January 2021. We agree with scope (10km) and	
[REP4-056 and 057].				 These reports have subsequently been super Assessment Report for Change Request iss Applicant is engaging with Natural England a comment on the Updated Habitats Regulation [REP4-056 and 057].



t with the assessment of the Scheme as an es of compliance with Emerging Policy 4 with bitat), the Ancient Woodland Strategy [REP4and that the Scheme and the compensation policies.

ce to "*subject to some fine detail*" to be a gy, which refers to matters to be developed and thin the Ancient Woodland Strategy for Change ude, for example, the final design of the public River Coquet (paragraph 3.2.3 [REP4-054 and (paragraph 3.2.9 [REP4-054 and 055]), the clocation (paragraphs 3.2.14, 3.2.15 and 3.3.1 beland Management and Monitoring Plan ient Woodland Strategy, including those matters esign, is secured by measures A-L6, A-B3, A--B6 of the Outline CEMP [REP6-025 and 026] Voodland Strategy is also secured by DCO [REP6-010 and 011].

with the scope and conclusions of the HRA A Report [REP1-012 and 013] and BIO.1 North ulations Assessment Addendum Report [REP1-

perseded by the Updated Habitats Regulations ssued at Deadline 4 [REP4-056 and 057]. The d as the statutory regulator and is awaiting tions Assessment Report for Change Request

Updated HRA Reports [REP1-012 and REP1- 013] and HRA Addendum Report [REP1-043]; Biodiversity No Net Loss Assessment for the Scheme [REP2- 009]; Annex A – Approach to the Assessment of Losses and Gains of Watercourse [REP2-010]; and Updated Biodiversity Air Quality DMRB Sensitivity Assessment [REP3-010]. NCC has not yet commented on these documents and is asked to do so.	Biodive 009]; V and ha current Northu than vi applied practic impact and SS assess guidan

ersity No Net Loss Assessment for the Scheme [REP2-Ve would prefer to see an improvement via landscaping bitat creation but biodiversity net gain (BNG) is not tly mandatory (and exemption for NSIP) nationally or in mberland (ENV 2 of ELP secures in general terms rather a BNG). We agree that the principles of BNG have been d but would continue to request additional offsets where able (may be opportunities linked to air quality s/catchment level offsets). Ancient semi-natural woodland SSI impacts cannot be included in a biodiversity net gain sment and must be considered separately under current ce and DEFRA metric for BNG.

Annex A - Approach to the Assessment of Losses and Gains of Watercourse [REP2-010] - in this case would defer to EA but provided that connectivity is maintained via the watercourses, the culverted/diverted sections are designed sympathetically (gravel beds and ledges) no objections based on the loss of watercourses given the nature of the scheme. Offset via catchment improvement is desirable.

- 5. The Applicant notes that NCC recognises that biodiversity net gain is not a legal requirement for Nationally Significant Infrastructure Projects (NSIPs) (such as this Scheme) and is also currently not mandatory at a local policy level.
- 6. Whilst not a requirement for a NSIP, a biodiversity no net loss report has been produced for the Scheme [REP5-038 and 039] in order to meet the Applicant's own internal Written Summary of Oral Submissions at Hearings [REP4-026], the Applicant looks to has been produced will therefore be used to inform biodiversity changes at a national level.
- 7. The Applicant notes that NCC agree that the principles of biodiversity net gain have been applied to the Scheme.
- 8. As detailed in the response against BIO.2.4 above, the Applicant continues to explore opportunities to offset the possible degradation to woodland habitat as a result of also continues to engage with the Environment Agency with regards to the loss of remains that sufficient measures have been identified to mitigate and/or offset the assessed impacts, although the Environment Agency disagree. This remains under discussion.
- 9. Further, the Applicant has committed to develop a strategy of biodiversity enhancements, S-B20 of the Outline CEMP [REP6-025 and 026] (as updated at Deadline 7).
- 10. The Applicant agrees that ancient semi-natural woodland (as an irreplaceable habitat) ancient woodland) and Coquet River Felton Park LWS (not designated but treated as England to address the loss of ancient woodland habitat as a result of the Scheme.
- 11. The Applicant confirms that the approach to the design of culverts (both extensions and the ecological surveys undertaken. Natural beds for fish passage and mammal ledges The Culvert Mitigation Strategy [REP5-022] represents a summary document used to where natural beds and mammal ledges are proposed for each culvert, with an explanation where these features are not proposed for inclusion. For example, it has not to the constraints of the dimensions of the culvert and health and safety regulations. However, culvert design has been considered within the biodiversity assessment of



biodiversity plan (Highways England Biodiversity Plan). As confirmed in the Applicant's consider biodiversity impacts across its whole network at a national scale as opposed to considering it on a scheme by scheme basis. The biodiversity no net loss report which

increased nitrogen deposition from vehicle emissions due to the Scheme. The Applicant watercourse as a result of culverting across the Scheme. The position of the Applicant

based on opportunities identified within paragraph 9.9.11 of Chapter 9: Biodiversity Part A [APP-048], paragraph 9.9.9 of Chapter 9: Biodiversity Part B [APP-049], and Section 3.2 of the Ancient Woodland Strategy for Change Request [REP5-054 and 055]. The strategy will be developed in consultation with relevant stakeholders. This is secured by measure

and SSSIs (as a statutory designated site) cannot be included in the biodiversity no net loss assessment. As detailed in paragraphs 2.4.3 to 2.4.6 of the Biodiversity No Net Loss Assessment for the Scheme for Change Request [REP5-038 and 039], ancient woodland habitat associated with the River Coquet and Coquet Valley Woodlands SSSI (designated ancient woodland within the assessment for the purpose of mitigation) has been excluded from the biodiversity unit calculation. A separate strategy (Ancient Woodland Strategy for Change Request [REP4-054 and 055]) has been developed in consultation with Natural

new) has been sympathetic, considered connectivity of wildlife and has been informed by have been considered for all culverts and included where this is achievable and required. assist consultation with the Environment Agency and other parties. The document details

been possible to retrofit these features into existing culverts proposed for extension, due

		significant effects (presented in Chapter 9: B [APP-049]. 12. The Applicant continues to engage with the B of watercourse as a result of culverting across is that sufficient measures have been identifi impacts, although the Environment Agency of
	Updated Biodiversity Air Quality DMRB Sensitivity Assessment [REP3-010]. – see above response to BIO2.4.	13. No response required.
	No major change to previous comments although would continue to request improvements on no net loss where practicable. We would support every possible opportunity to maximise gains for biodiversity within the order limits, zone of influence (ZOI) for the scheme and catchments.	 14. As detailed above, the Applicant looks to cornetwork at a national scale as opposed to confine biodiversity no net loss report which has inform biodiversity changes at a national level. 15. The Applicant has sought to maximise gains detailed in paragraph 4.1.14 of the Biodivers for Change Request [REP5-038 and 039], with Scheme as a whole, due to the loss of irrepla distinctiveness woodland and scrub and rive identify a net gain in hedgerows, area-based 16. The Applicant has also committed to develop based on opportunities identified within paragraph 9.9.9 of Chapter 9: Bio of the Ancient Woodland Strategy for Change will be 17. developed in consultation with relevant stake of the Outline CEMP [REP6-025 and 026] (at the first state of the Outline CEMP [REP6-025 and 026] (at the outline CEMP [REP

Table 1-7 – Tom Lloyd

Ref	Deadline 6 Submission	Applicant's Response
1	 This submission is a comment on the following documents, and relates to the location of Fenrother junction on Part A :- 1. Document 1 - Action Point 36 Response within Document TR010059-001545-DL5_Northumberland County Council_Comments on Deadline 4 submissions. from NCC as submitted for Deadline 5 and uploaded on 7 April 2021 2. Document 2 - Section 3 of TR010059-001390-David Morrow on behalf of the Applicant - Comments on responses submitted for Deadline 3 from HE responding to my previous submission and uploaded on 	 The Applicant assumes that Mr Lloyd is referring t Deadline 5 Submission - Comments on responses Table 1-3, Deadline 4 Submission – Applicant's Re [REP4-033]



Biodiversity Part A [APP-048] and Part B

e Environment Agency with regards to the loss oss the Scheme. The position of the Applicant tified to mitigate and/or offset the assessed disagree. This remains under discussion.

onsider biodiversity impacts across its whole considering it on a scheme by scheme basis. as been produced will therefore be used to vel.

hs for biodiversity within the Order limits. As risity No Net Loss Assessment for the Scheme whilst no net loss cannot be claimed for the placeable habitat (ancient woodland), medium ver habitat, the assessment calculation does ed priority woodland and wetland habitats. op a strategy of biodiversity enhancements, ragraph 9.9.11 of Chapter 9: Biodiversity Part A Biodiversity Part B [APP-049], and Section 3.2 nge Request [REP5-054 and 055]. The strategy

keholders. This is secured by measure S-B20 (as updated at Deadline 7).

to the following documents:

es submitted for Deadline 4 [REP5-042] Responses to Further Deadline 2 Submissions

Ref	Deadline 6 Submission	Applic	ant's Response							
2	Having commuted daily from Amble to Newcastle for 9 years, I have been questioning why Fenrother junction is not located 2.7km further north at the much busier Causey Park junction ever since the preferred offline route for Part A was announced in 2017.	f	 The Applicant has previously responded in detail to Mr Lloyd's representations on the reasons for the choice of junction location at Fenrother rather than Causey Park, and this is set out in the Response to Further Deadline 2 Submissions [REP4-033] submitted at Deadline 4. 							
3	 Although Document 2 above tried to justify the junction location at Fenrother, it still leaves unanswered questions that are reinforced by NCC's concerns in Document 2 regarding non-motorised users of the detrunked A1. The current proposal means c.2,500 vehicles/day accessing the new A1 south from Chevington Road will face three new frustrations :- Giving way to a road with less than a third of its traffic at Causey Park (which most of this traffic already does TWICE at West Chevington junctions despite NCC's major upgrades to Chevington Road) Driving along a newly narrowed detrunked A1 within inches of the non-motorised N-S users for 2.4km to Fenrother Crossing itself unnecessarily at the east T junction within the Fenrother junction layout, significantly increasing collision risks Junctions 9 is industry standard software developed by the Tran (TRL) This software uses junction geometry measurements take drawings and luming flows from the lalest core scenario models produces a forecast the operation of the junction, including de junction approach arm. The results of this assessment are summarised below. The Rativalue represents the level of congestion on each junction approace arm. The results of this assessment are summarised below. The Rativalue represents the level of congestion on each junction approach arm. The results of this assessment are summarised below. The Rativalue represents the level of congestion on each junction approach arm. The results of this assessment are summarised below. The Rativalue represents the level of congestion on each junction approach arm. The results of this assessment are summarised below. The Rativalue represents the level of congestion on each junction approach arm. The results of this assessment are summarised below. The result which is the equivalent of an average car. The delay represents seconds. 		e SATURN s ton Road wh weekday pe licant consid trunked A1 k eles per day i e 2 Submiss e number of nd 3 vehicles e number of nd 3 vehicles r minute. Giv ll be any sign uantify this, t ton T junctio e Transport ts taken from nodels at op ding delays a ne Ratio of F approach – queues are s unit used in h esents avera	RN strategic model of the ad which goes on to access by peak periods. The onsiders that under the A1 between Chevington day rather than 200 as stated. missions [REP4-033], er of vehicles in each direction hicles per minute during peak approaching the junction from a Given the limited traffic y significant delays when his, the Applicant has hotion which is included as port Research Laboratory from the latest design at opening year (2023). It ays and queues on each of Flow to Capacity (RFC) ch – a value of 0.85 or less are shown as a number of d in highway engineering werage delay per vehicle in						
					AM Peak			PM peak		
					Delay (s)	RFC				
			Chevington Rd left	0.1	6.29	0.11	0.1	6.24	0.09	
			Chevington Rd right	0.0	7.42	0.02	0.1	8.03	0.1	
			De-trunked A1 South Right Turn	0.1	6.00	0.07	0.1	5.94	0.06	



Ref	Deadline 6 Submission	Applicant's Response
		 The Applicant does not therefore accept that this number of vehicles on the de-trunked A1 will be improvement on the present situation without the 7. As NCC notes in point 10 of Action Point 36 [RE carriageway with good horizontal and vertical allia are proposed as part of the Scheme to narrow the incorporate a cycle lane, the de-trunked A1 will therefore no basis for the submission that the de would result in a new frustration for the reduced Indeed, the Applicant notes that NCC's concern average speed of vehicles using the de-trunked opposed to there being any delays on the road. The Applicant confirms that there are no other jutrunked A1 to join the A1 southbound via the ne Applicant acknowledges that northbound vehicle have to turn right at a T junction to travel further number of vehicles turning right at this T junction hour and 71 during the evening peak hour – a m seconds. The Applicant confirms that this T Junction will be visibility etc. and the design will be subject to Stathat it does not present a risk to health and safe there will be a significant collision risk for vehicles
4	I attach a sketch plan of my alternative junction layout at Causey Park which removes ALL of these frustrations and gives other advantages for a very similar construction cost as far as I can tell from available information.	 The Applicant notes the alternative junction layor would offer the following comments. The alternative junction location would require a junction itself together with a new link road from be provided as part of the current Scheme. It is alternative junction at Causey Park a new overb overbridge were not to be provided, then the debecome a cul-de sac and there would be a signit travelling from Fenrother to Tritlington. As set out in this response and the Applicant's or 7.27.1) there is no substantial benefit from this a public interest in proceeding with the present Scheme A1 together with a change in the priority road to a junction at Causey Park become the p the side roads. Section 4.3e) of TD 42/95 The G Junctions states that the replacement of a rural side roads offset from each other has been show crossroads arrangement there is an increased r the junction without reducing speed.



his will lead to a new frustration and as the e significantly reduced it will be a significant he Scheme.

EP5-042] the de-trunked A1 is a wide single alignment and good forward visibility. No works the de-trunked A1. Even if NCC decided to not become a narrow single carriageway and nent and good forward visibility. There is de-trunked A1 would be narrowed such that it d number of vehicles using the de-trunked A1. ns in Action Point 36 related to the increased d A1 following completion of the Scheme as

junctions when travelling south on the deew link road and Fenrother Junction. The les leaving the A1 at the Fenrother Junction will er north and east via the de-trunked A1. The on is estimated to be 73 during the morning peak maximum of approximately one vehicle every 50

be designed to current standards in terms of tage 2, 3 and 4 Road Safety Audits to ensure ety. The Applicant does not therefore accept that les negotiating this T Junction.

out suggested by Mr Lloyd at Causey Park and

additional land outside the Order Limits for the m the junction to Chevington Road and cannot s assumed that in conjunction with providing the rbridge would be provided at Fenrother. If a new e-trunked A1 south of Chevington Road would nificant increase in journey length and time in

comments in the Appendix (document reference alternative proposal which would outweigh the Scheme.

he intersection of Chevington Road and the dety such that Chevington Road and the new link priority route with the de-trunked A1 becoming Geometric Design of Major/ Minor Priority Il crossroads by a staggered junction with the own to reduce accidents by some 60% i.e. with a risk of traffic on side roads going straight across

Ref	Deadline 6 Submission	Applicant's Response
		 5. TD 42/95 has recently been superseded by CD12 signal-controlled junctions. Section 2.21 Note 2 c safer than crossroads where a significant proport flow. 6. As the alternative arrangement has not been more significant proportion of the flow would be a cross staggered junctions are safer. For the Fenrother arrangement would be retained, and the junction from Chevington Road in compliance with standa 7. The change in the priority of the junction from the safety risk until drivers who have regularly used t revised arrangement. 8. Cyclists and pedestrians travelling on the de-trun new priority route formed by an extension of Che 9. The respondent is proposing that northbound traffic leaving the A1. While the num the junction is expected to be relatively low in not traffic leaving the A1 due to a particular peak suc queue for the T junction extending back onto the carriageway itself with the consequent safety risk 10. The respondent is proposing that the re-aligned f proposed Causey Park Junction to Chevington R vehicles and non-motorised users of the PROW thas this PROW joining a footpath on the south si requirement for non-motorised users to cross the 11. There is a high-pressure gas main at Causey Pa accommodate the new A1 alignment. Providing a would require a further crossing of the gas main
5	With my proposal traffic on the detrunked A1would be dramatically reduced, from c.2,500 to c. 200 vehicles/day, based on NCC's table 36.2, and non-motorised N-S traffic would merely cross coastal access E-W traffic at Causey Bridge, leaving only very local traffic from Burgham Park and Tritlington on the narrowed detrunked A1.	 The Applicant acknowledges that implementation would further reduce the volume of traffic using the is necessary and appropriate to do so – the Appl The respondent has not supplied traffic modelling modelling of the proposed alternative junction loc flows from the SATURN strategic model of the Secon Chevington Road which goes on to access the 87% during weekday peak periods. The remaining Applicant considers that under the proposed alter trunked A1 between Chevington Road and Fenror per day rather than 200 as stated. However, the de-trunked A1 is a wide single carr alignment and good forward visibility and is more traffic flows following opening of the Scheme even No narrowing of the de-trunked A1 being a wide single



123 Geometric design of at-grade priority and of CD 123 states that staggered junctions are ortion of the flow on the minor roads is a cross

odelled it is not possible to confirm if a ss flow. However, it is clear from standards that r junction option the present T junction on affords good visibility when turning left or right dards.

the present arrangement will also increase the the junction become accustomed to the

Inked A1 will have to give way and cross the nevington Road increasing the safety risk. affic leaving the A1 at the proposed Causey ority over southbound traffic leaving the A1 with t results in a relatively short queuing length for mber of southbound vehicles leaving the A1 at ormal circumstances if there was an increase in uch as attending an event it could lead to the e A1 southbound diverge or onto the A1 sks.

PROW has to cross over the link road from the Road/ the de-trunked A1. This conflict between / creates a safety risk. The present arrangement side of Causey Park Road so there is no he carriageway.

ark which has already been diverted to a junction and access road at Causey Park with the potential for protection works.

on of the proposal presented by the respondent the de-trunked A1. The question is whether it plicant concludes not.

ng. The Applicant has not undertaken detailed ocation, but an inspection of forecast traffic Scheme indicates that the proportion of traffic he A1 at Fenrother varies between 65% and hing 13%-35% of traffic is local. Therefore, the ernative arrangement traffic, flows on the derother may reduce to around 300-900 vehicles

rriageway with good horizontal and vertical re than capable of safely carrying the projected ren if NCC decides to incorporate a cycle lane. as part of the Scheme. Given the current gle carriageway with good alignment and

Ref	Deadline 6 Submission	Applicant's Response
		visibility there is no design requirement to further the Scheme. even if NCC were to incorporate a c 4 above with the respondent's alternative propose trunked A1 would have to cross the priority route and this conflict would create an additional safety Scheme.
6	I also believe the Fenrother junction should be inverted N-S WHETHER IT IS SITUATED AT FENROTHER OR CAUSEY PARK, as the current layout causes all the coastal/A1 south traffic to needlessly cross itself at the east side T junction, thus increasing the risk of collisions	 The Applicant confirms that if the Fenrother junction be required on the east side of the junction. The proposed a change in the junction priority in his s Causey Park. However as set out in the response requires a T junction and results in additional pote traffic approaching the T junction.
7	I therefore ask the Planning Inspectorate to reconsider HE's proposal and the need for HE to show their design is the optimum one and not just an adequate one, which I still do not believe they have demonstrated, ON ROAD SAFETY ASPECTS ALONE.	 It is not incumbent upon Highways England to de design, neither is it necessary to disprove the supparties. The Applicant has set out in detail in the Applican Submissions [REP4-033] that following public cor Route Announcement in September 2017 include overbridge at Causey Park. The selection of the junction location prior to P a number of factors. These are set out in the F (https://highwaysengland.citizenspace.com/he/northumberland_pramorpeth-to-ellingham_v Consultation feedback Cost Cost benefit ration based on economic Ease of construction Impacts on road user satisfaction Impacts on local communities and land Environmental impacts The Technical Appraisal Report (ref B2104700-O B2104700-OD-2470 were available on request as document sets out the assessment of the overall junction strategy aims under section 4.8. Regarding the choice of junction location at Fenror several factors other than traffic flows which have The western connection to the A697 at Fenro 4.4km), less sinuous (straighter) and of a hi way traffic) than the connection at Causey F connectivity for vehicles using the A1 and F Junction. Local journeys can still use the processing the section at causey for the connection to the connection.



er reduce traffic flows following completion of cycle route. As set out in the response to point sal cyclists and pedestrians using the dee formed by the extension of Chevington Road ty risk which doesn't arise with the proposed

ction were inverted then a T junction would still e Applicant notes that the respondent has sketch for the alternative junction location at se to point 4 above this arrangement still otential safety issues with the queue lengths for

lemonstrate that its design is the optimum uperiority of other designs put forward by third

ant's Response to Further Deadline 2 onsultation and assessment the Preferred ded for the Fenrother Junction and an

Preferred Route Announcement was based on PRA area of the Applicant's project website e/a1-in-northumberland/results/n170030_a1-_v3_digital.pdf) and as follows:-

nic assessment

geometric standards

ndowners

OD-051) and Scheme Assessment Report (ref as part of the non-statutory consultation. This Il routes for Parts A and B and includes the

rother rather than Causey Park, there are ve been taken into consideration:

enrother is more direct (2.4km compared to higher standard (generally wider permitting twov Park. This will improve the east-west Fenrother Junction compared to a Causey Park proposed Causey Park bridge if preferred.

Ref	Deadline 6 Submission	Applicant's Response
		 There are no environmental constraints with Fenrother Junction. However, applying a s would encroach onto a number of environm locations (which could have the potential fo and release of hazardous mine gas), a Pub non-designated heritage assets. There would also likely be direct adverse vi Causey Park Hag Lodge, which are likely to significant effects during construction and in With respect to the agricultural land classifie within the Order Limits at the Fenrother junc 4) than the land within the Order Limits at O lesser proportion of Grade 3a, BMV and Gr The Applicant has set out in response to the varior reference 7.27.1) that a junction located at Fenron located at Causey Park and that with an alternation junction of Chevington Road with the de-trunked would be required together with a change in prior
8	To help you challenge them, here is my summary of implications for the two locations for what is easily the busiest junction on Part A i.e. between Morpeth and Felton:	 The Applicant has provided a response to each of connection with the choice of junction location in respondent has not considered in his table such a the existing properties adjacent to the de-trunked and the vertical alignment of the new A1 at the lo issues are: As set out in the response to point 4 above a junct impact on the existing high-pressure gas main we accommodate the Scheme. If the junction were provided at Causey Park rath residents in the properties adjacent to the de-trunt Tritlington together with Tritlington School would south. At the location of the Fenrother junction, the vertis same level as existing ground as shown on shee 011]. While this results in a higher embankment to over the new carriageway no significant earthwor lanes leading onto and off the A1, at the slip road road comprising Fenrother Lane East. At the location of the alternative junction at Cause approximately 3m deep as shown on sheet 7 of t would reduce the height of the embankment lead level, significant additional excavation would be r leading onto and off the A1, the slip roads at the Chevington Road. The existing ground level with need to be lowered to provide adequate visibility



ithin the Order limits around the proposed similar footprint for a junction at Causey Park mental constraints including mine entry or impacts associated with ground instability blic Right of Way (PRoW) and potentially two

visual impacts on 2no. residential properties at to be subject to additional impacts, resulting in in winter Year 1.

fication at each location, the agricultural land nction is predominantly of a lower grade (Grade Causey Park (predominantly Grade 3b with a Grade 4).

rious points in the Appendix (document rother would be no less safe than a junction tive junction located at Causey Park the d A1 would be less safe because a crossroads ority from the present arrangement.

of the points raised by the respondent in n Appendix A. There are other factors which the n as the impact on public utilities, the impact on ed A1 between Chevington Road and Tritlington location of the junctions. The key additional

nction at Causey Park would have an adverse which has already been diverted to

ther than Fenrother then the journey time for unked A1 between Chevington Road and d increase when travelling to and from the

rtical alignment of the A1 is approximately at the set 4 of the Engineering Section Drawings [APPt to carry the connector road and overbridge orks are required along the merge and diverge ads connecting to Fenrother lane or the new link

isey Park the main A1 is in a cutting f the Engineering Section Drawings. While this ading to the overbridge above existing ground e required to create the merge and diverge lanes e junctions and the new link road connecting to thin the loops of the connecting road would also by in accordance with standards.

Ref	Deadline 6 Submission	Applicant's Response
		 The alternative junction would require the acquisit accommodated within the current Scheme. The Applicant's comments on each of the points is confirm that for all the points raised the alternative an improvement on the junction location at Fenror alternative location has disadvantages in comparisonsidered above also confirm the further disadvantages
9	I realise HE have more facts available than I do, and that traffic is not the only design factor, but it is surely the main reason for any road scheme, with road safety close behind. The Causey Park junction is clearly a better option than Fenrother Junction ON BOTH COUNTS, and should be considered under item 6 at the Issue Specific Hearing 3 on 21 April 20231	 The Applicant has set out the factors justifying the Fenrother rather than Causey in the response to the Appendix A. The Applicant confirms that the proposed junction network can readily accommodate the expected to with minimal delays, that the design and impleme roads and junctions are safe to use and that the ju an alternative at Causey Park for the reasons set comments in Appendix A (document reference 7.2)



sition of additional land and cannot be

s raised by the respondent in the Appendix ive location of the junction at Causey Park is not rother and for a number of the points the arison to Fenrother. The additional points dvantages of the alternative location.

he location of the grade separated junction at o the various points above and in the table at

on location at Fenrother and the adjacent road d traffic flows following opening of the Scheme nentation of the Scheme will ensure that the e junction location at Fenrother is preferable to et out in the foregoing and the Applicant's 7.27.1).

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