

## A303 Sparkford to Ilchester Dualling Scheme TR010036

### 9.13 Summary of In-combination Effects on Cultural Heritage

APFP Regulation 5(2)(q)  
Planning Act 2008  
Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009  
February 2019



Infrastructure Planning

Planning Act 2008

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

**A303 Sparkford to Ilchester Dualling  
Scheme**

Development Consent Order 201(X)

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<b>Regulation Number:</b>	Regulation 5(2)(q)
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## 1. Summary of In-Combination Effects on Cultural Heritage

### 1.1 Introduction

- 1.1.1 This technical note has been prepared by the Applicant in response to question 1.1.9 of the written questions issued by the examining authority (REP2-004):
- 1.1.2 *“ES Volume 6.3 Appendix 3 paragraph 7.3.1 [APP-067] states that “effects of Moderate to Very Large are considered significant”. From this, all heritage assets identified within the study area and included within the ES Volume 6.3 Appendix 6.1 Table 7.2 with a less than “Moderate” level of significance has been scoped out.*
- 1.1.3 *However, it is possible that less than moderate effects may, in combination, result in moderate or greater level of effects which should, using this approach, have been scoped in.*
- 1.1.4 *Could the Applicant please re-assess the effects to ascertain whether or not in combination effects of “less than moderate” would have a moderate or greater effect? This may be easiest to explain in tabular form.*
- 1.1.5 *If the results of these in combination effects would have a moderate or greater effect, could these please be assessed and if any conclusions amended as appropriate?”*
- 1.1.6 This technical note will assess in-combination effects and where appropriate put forward amended conclusions.

### 1.2 Methodology

- 1.2.1 The assessment of in-combination effects looks at those cultural effects expected to last the lifetime of the scheme. These are initially assessed separately as permanent construction effects and operational effects. These assessments can be found in Table 7.2 and 7.3 respectively of Appendix 6.1 Cultural Heritage DBA (APP-067) of the ES.
- 1.2.2 In-combination effects are where the operational effects of the scheme will change the permanent construction effects. In-combination effects can be beneficial or adverse. The assessment has been made using professional judgement as to whether the combined impacts of the permanent construction and operational impacts will result in an overall better, worse or the same level of effect as the individual assessments.

### 1.3 In-combination effects assessment

- 1.3.1 **Error! Reference source not found.** Table 1.1 below sets out the assets being assessed, the permanent construction effects and operational effects as assessed in Appendix 6.1 Cultural Heritage DBA (APP-067) of the ES. A full description of the effects can be found in Tables 7.2 and 7.3 of Appendix 6.1 Cultural Heritage DBA (APP-067) of the ES. It then describes the in-combination effect and concludes the level of effect.

Table 1.1 Assessment of in-combination effects

Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
<b>GR01</b>	MM01	Eyewell Group	Grade II	1039625; 1258875; 1258884	Medium	Neutral	Slight Adverse	There are no permanent construction impacts from the scheme. The potential for the increase in traffic noise during operation has resulted in slight adverse effect.	Slight Adverse
<b>GR03</b>	MM08	Glebe Farm Group	Grade II	1056773; 1056774	Medium	Slight Adverse	Slight Adverse	The rural setting will remain dominant with only limited impacts from the appearance of the scheme and traffic noise. This is due to the distance of the assets from the realigned A303 and the landscape planting which will screen the route and help retain the rural character.	Slight adverse
<b>N/A</b>	MM09	Henderson's Cottage	Grade II	1056775	Medium	Slight Adverse	Slight Adverse	The rural setting will remain	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								dominant with only limited impacts from the appearance of the scheme and traffic noise. This is due to the distance of the assets from the realigned A303, intervening buildings, and the landscape planting which will screen the route and help retain the rural character.	
<b>N/A</b>	MM09	The Cottage	Grade II	1295480	Medium	Slight Adverse	Slight Adverse	The rural setting will remain dominant with only limited impacts from the appearance of the scheme and traffic noise. This is due to the distance of the assets from the realigned A303, intervening buildings, and the landscape	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								planting which will screen the route and help retain the rural character.	
<b>N/A</b>	MM13	Milestone on B3151 at NGR ST 5638 2471	Grade II	1056780	Medium	Neutral	Neutral	No impacts are expected as the milestone's setting is not related to the A303 and it will not be physically impacted.	Neutral
<b>N/A</b>	MM25	Sparkford Hall	Grade II	1272898	Medium	Neutral	Neutral	The change in alignment along with the traffic noise and movement associated with this will not impact the setting of asset due to the distance of the scheme from the hall.	Neutral
<b>GR05</b>	MM26;	Hazlegrove House Group	Grade II	1277545; 1248865	Medium	Moderate Adverse	Moderate Adverse	The combination of traffic movements, lighting impacts and appearance of the scheme will significantly	Moderate Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								impact the parkland setting, particularly views south west from the asset across the park. However the majority of the parkland remains unaltered, and the value of the group as an 18 <sup>th</sup> century country house within a parkland setting will still be largely understood.	
<b>N/A</b>	MM27	Triumphal Arch Gateway to Hazlegrove House	Grade II*	1272919	High	Slight Adverse	Neutral	The increased severance of the asset increases the loss of setting and ability to understand the arch as the entrance to the park. However the severance has already occurred with significant traffic movement between the asset and the	Slight Adverse



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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								park. The increase in traffic movement is not considered to increase harm.	
<b>GR11</b>	MM42; MM68; MM92	Hazlegrove House RPG Group	Grade II	1000422; 11594; 19736	Medium	Large Adverse	Moderate Adverse	The combination of traffic movements, lighting impacts, appearance of the scheme and loss of 10.6 hectares of the RPG would result in a large adverse impact. The level of the harm would reduce as planting became established. However given the permanent harm from loss of parkland this would not reduce the in-combination effect.	Large adverse
<b>GR12</b>	MM65; MM66; MM91; MM97	Archaeological remains associated with Hazlegrove	N/A	54431; 17470; 31569; 28672	Low	Neutral	Neutral	There will be no physical impact on the asset.	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
		settlement							
<b>N/A</b>	MM29	Parson's Steeple (20 metres north east Steeple House)	Grade II	1345995	Medium	Neutral	Neutral	The contained woodland setting of the asset and the distance from the scheme means there will be no impacts. There does not appear to be any designed views or visual link to Naish's Farm.	Neutral
<b>N/A</b>	MM30	Milestone on A303 at NGR ST57892538	Grade II	1345996	Medium	Slight Adverse	Neutral	The milestone relocation will reinstate the ability to understand the heritage value of the asset. However it is acknowledged that its relocation will result in a limited loss of its original setting. The change in traffic movement passed the asset would not increase this impact, given its existing setting	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								alongside modern traffic.	
<b>GR06</b>	MM31; MM32; MM33; MM34; MM35; MM36; MM37; MM38; MM39; MM152	Podimore Group	One grade I, 1 grade II* and 9 grade II	1295400; 1056783; 1175211; 1345998; 1056784; 1056785; 1175237; 1175271; 1175296; 1295396; 1345999; 54792	Medium	Neutral	Neutral	There will be no change to the setting of the group as the alignment and traffic movements will be largely unaltered as it runs passed the asset.	Neutral
<b>GR07</b>	MM40; MM46; MM48; MM49; MM53; MM54; MM64; MM93; MM149; MM150	Queen Camel Conservation Area Group	One grade I and 35 grade II in a conservation area	19738; 52363; 52353; 18506; 54443; 54439; 54437; 54428; 54633	Medium	Neutral	Slight Adverse	The operational traffic noise, and movement of traffic through the conservation area in comparison with the existing situation, will be minimal. The realignment of the A303 will have no impact on the setting than the current situation.	Slight Adverse
<b>GR08</b>	MM41; MM56; MM57;	West Camel Conservation Area Group	One grade I, 2 grade II* and 9 grade II in a	17817; 57192; 55874; 54638	Medium	Neutral	Neutral	In comparison to the existing situation the	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
	MM59; MM60		conservation area					conservation area will not experience a significant difference in its setting from traffic noise, appearance of the scheme and additional traffic, and not to the extent where the ability to understand the heritage assets will be affected.	
<b>GR09</b>	MM43; MM45	Camel Hill SM group	Scheduled Monument	1020936; 17902	High	Moderate Adverse	Slight Adverse	There is potential for the construction of a temporary haul route to the north of the asset to permanently remove or disturb archaeological remains associated with the scheduled monument. However mitigation has reduced the risk of disturbance.	Moderate Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								Following evaluation trenching a WSI is being prepared to ensure an appropriate level of archaeological recording. During operation there is potential for higher traffic noise however this has to be assessed in the context of the already busy road, reducing the overall impact.	
<b>N/A</b>	MM44; MM271	Medieval settlement remains 100m and 250m north of Downhead Manor Farm	Scheduled Monument	1021260; 54640	High	Neutral	Neutral	The distance of the A303 from the asset means that the rural setting will remain dominant with no impacts from traffic movement and the appearance of the scheme. The work and operation related ecological	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								mitigation area will respect the character of the setting of the monument.	
<b>N/A</b>	MM270	Area of High Archaeological Potential	N/A	N/A	Medium	Slight Adverse	Neutral	Impacts will only occur during construction where archaeological remains would be removed.	Slight Adverse
<b>N/A</b>	MM55	Eight Petter-Nissen experimental houses	N/A	50296; 50297	Low	Slight Adverse	Neutral	The realignment of the A303 will bring the road slightly closer to the asset. The asset is already viewed in the context of the modern road and as such the movement of traffic will not increase the overall impact.	Slight Adverse
<b>N/A</b>	MM62	Turnpike Road Sparkford Hill, Sparkford, to Marston Inn, Marston Magna	N/A	24643	Low	Neutral	Neutral	The physical and operational relationship between the asset and scheme will not change	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
<b>N/A</b>	MM71	Coages Park, west of Hazlegrove House, Queen Camel	N/A	54434; 54435; 54444	Low	Slight Adverse	Slight Adverse	The combination of the increase in traffic movements and appearance of the scheme will have a limited impact on the setting of the asset. The rural setting of the asset will remain dominant.	Slight Adverse
<b>N/A</b>	MM73	Radio Receiver site, Camel Hill, West Camel	N/A	15747	Low	Neutral	Neutral	The location of the asset, along the route of the busy, modern A303, and therefore its setting will not change.	Neutral
<b>N/A</b>	MM74	ROC observation post, Camel Hill, Queen Camel	N/A	56969	Low	Neutral	Neutral	The location of the asset, along the route of the busy, modern A303, and therefore its setting will not change.	Neutral
<b>N/A</b>	MM88	Milestone, Ridge Hill, Queen Camel	N/A	19735	Medium	Neutral	Neutral	No impacts are expected as the milestone's setting is not	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								related to the A303 and it will not be physically impacted.	
<b>N/A</b>	MM103	Turnpike Road, Petherton Bridge, Martock, to Sparkford Bridge, Sparkford	N/A	24641	Medium	Neutral	Neutral	There is a limited extent of the asset which is being altered and its current character is already one of a modern road.	Neutral
<b>N/A</b>	MM116	Milestone, west of Camel Cross, West camel	N/A	14793	Medium	Neutral	Neutral	The asset was not visible during a site walkover so it assumed removed.	Neutral
<b>N/A</b>	MM128	Inhumation cemetery, West Camel Hill, West Camel	N/A	54634	Medium	Neutral	Neutral	Archaeological remains associated with this asset will not be removed as part of the development.	Neutral
<b>N/A</b>	MM135;	Podimore shrunken village	N/A	54802	Low	Neutral	Neutral	There will be no further impact from the appearance and operation of the scheme than that already experienced from the current	Neutral



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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								alignment of the A303.	
<b>N/A</b>	MM273a	West Camel Methodist Church	N/A	N/A	Low	Slight Adverse	Slight Beneficial	The location on a busy main route is intrinsic to understanding its historic value as a place of worship positioned to serve travellers. Its loss of its setting on the main road will reduce the ability to understand its historic function. However, the current location with access from the busy main road has impacted the viability of the chapel with it no longer in use for worship. Removing from this setting has the potential to increase the viability of the building as either	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								a community building or alternative, as a location down a safer, quieter local road may be more attractive to new uses.	
<b>N/A</b>	MM273b	Bakery of West Camel	N/A	N/A	Low	Slight Adverse	Slight Adverse	The loss of the setting of the asset and the location, on a busy main road, will have a direct impact on the ability to understand the asset as a trading post on a main route. This coupled with the potential indirect impact of loss of historic bakery use.	Slight Adverse
<b>N/A</b>	MM274	House to the south of Glebe Farm, Downhead	N/A	N/A	Low	Slight Adverse	Slight Adverse	The rural setting will remain dominant with only limited impacts from the appearance of the scheme and	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								traffic noise. This is due to the distance of the asset from the realigned A303 and the landscape planting which will screen the route and help retain the rural character.	
<b>N/A</b>	MM275	The Spinney	N/A	N/A	Low	Slight Adverse	Slight Adverse	The alignment and Downhead Junction will move closer to the asset. There will be traffic movements and associated noise in closer proximity to the asset. However, the visual character of a property surrounded by high hedgerows and trees will remain unchanged.	Slight Adverse
<b>N/A</b>	MM276	The Hollies and Appletree	N/A	N/A	Low	Slight Beneficial	Slight Beneficial	The alignment and traffic	Slight Beneficial

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
		Cottage, Plowage, West Camel						<p>movement will be moved away from the assets. They will be located on a local road junction reducing the amount of traffic movement and associated noise experienced from the asset.</p> <p>Planting and the road being in cutting will reduce the intervisibility between the assets and the road increasing the ability to understand the historic rural setting of the assets. However, there will still be noise from the main alignment which will impact on the rural setting of the assets.</p>	
<b>N/A</b>	MM277	Camel Hill	N/A	N/A	Low	Slight Adverse	Slight Adverse	The alignment	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
		Cottage, Camel Hill						will be slightly closer to the asset than the current A303. This will bring traffic movement closer to the asset and potentially increase road noise. However, this should be taken in the context of the disruption to setting of the appearance and operation of the current A303, and the landscaping and planting which will retain the visual setting of the asset.	
<b>N/A</b>	MM278	Camel Hill Farm, Camel Hill	N/A	N/A	Low	Neutral	Slight Adverse	The alignment will be slightly closer to the asset than the current A303. This will bring traffic movement closer to the	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								asset and potentially increase road noise. However, this should be taken in the context of the disruption to setting of the appearance and operation of the current A303, and the landscaping and planting which will retain the visual setting of the asset.	
<b>N/A</b>	MM279	Pepper Hill Cottage, Camel Hill	N/A	N/A	Low	Moderate Adverse	Slight Adverse	The alignment will be closer to the asset than the current A303. This will bring traffic movement closer to the asset and potentially increase road noise. However, this should be taken in the context of the disruption to	Moderate Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								setting of the appearance and operation of the current A303, and the landscaping and planting which will reduce the impact to visual setting of the asset.	
<b>N/A</b>	MM295	Glastonbury Tor	Scheduled Monument	1019390	High	Neutral	Neutral	The permanent appearance of the scheme and operational traffic movements and lighting will not be appreciable in the wider landscape from important views south from Glastonbury Tor.	Neutral
<b>N/A</b>	MM296	Cadbury Castle	Scheduled Monument	1011980	High	Neutral	Neutral	The permanent appearance of the scheme, operational traffic and lighting will not change the visibility of the scheme, or its relationship with the asset.	Neutral

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
<b>N/A</b>	MM297	St Michael's Hill	Scheduled Monument	1008466	High	Neutral	Neutral	The permanent appearance of the scheme, operational traffic and lighting will not change the visibility of the scheme, or its relationship with the asset.	Neutral
<b>N/A</b>	MM298	Prehistoric unknown archaeological remains	N/A	N/A	High	Large Adverse	Neutral	Prehistoric archaeological remains within the footprint of the scheme will be removed. A scheme of archaeological recording will be instigated, although under the NPS NN this will not mitigate any loss. Remains will have been removed therefore there will be no operational impacts.	Large Adverse
<b>N/A</b>	MM299	Roman unknown archaeological	N/A	N/A	High	Moderate Adverse	Neutral	Roman archaeological	Moderate Adverse



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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
		remains						remains within the footprint of the scheme will be removed. A scheme of archaeological recording will be instigated, although under the NPS NN this will not mitigate any loss. Remains will have been removed therefore there will be no operational impacts.	
<b>N/A</b>	MM300	Early medieval unknown archaeological remains	N/A	N/A	Medium	Large Adverse	Neutral	Early medieval archaeological remains within the footprint of the scheme will be removed. A scheme of archaeological recording will be instigated, although under the NPS NN this will not mitigate any loss.	Large Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								Remains will have been removed and will not be resented during the operation therefore there will be no in combination impacts.	
<b>N/A</b>	MM301	Medieval unknown archaeological remains	N/A	N/A	High	Large Adverse	Neutral	Medieval archaeological remains within the footprint of the scheme will be removed. A scheme of archaeological recording will be instigated, although under the NPS NN this will not mitigate any loss. Remains will have been removed and will not be resented during the operation therefore there will be no in combination	Large Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
N/A	MM302	Post-medieval unknown archaeological remains	N/A	N/A	Low	Slight Adverse	Neutral	Post medieval archaeological remains within the footprint of the scheme will be removed. A scheme of archaeological recording will be instigated, although under the NPS NN this will not mitigate any loss. Remains will have been removed and will not be resent during the operation therefore there will be no in combination impacts	Slight Adverse
N/A	MM303	Modern unknown archaeological remains	N/A	N/A	Low	Slight Adverse	Neutral	Modern archaeological remains within the footprint of the scheme will be removed. A scheme of archaeological	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								recording will be instigated, although under the NPS NN this will not mitigate any loss. Remains will have been removed and will not be resented during the operation therefore there will be no in combination impacts.	
<b>N/A</b>	N/A	Historic Landscape Character	N/A	N/A	Medium	Slight Adverse	Neutral	The dominant historical agricultural character with dispersed settlements will remain following the realignment of the route. However, there will be limited permanent truncation of the landscape, especially around Hazlegrove House RPG. The	Slight Adverse

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Group No.	MM No.	Name	Designation	NHLE/HER No	Heritage Value	Permanent construction effect	Operational effect	In-combination effect description	In-combination effect
								change in traffic movements will not impact the Historic Landscape Character any further than the existing A303.	

## 1.4 Conclusion

1.4.1 The in-combination effects have not changed the overall assessment of significant effects for the majority of assets. The following assets have reported in-combination significant effects:

- Hazlegrove House Group (GR05) Moderate Adverse
- Hazlegrove House RPG Group (GR11) Large Adverse
- Camel Hill Scheduled Monument Group (GR09) Moderate Adverse
- Pepper Hill Cottage (MM279) Moderate Adverse
- Prehistoric unknown archaeological remains (MM298) Large Adverse
- Roman unknown archaeological remains (MM299) Moderate Adverse
- Early medieval unknown archaeological remains (MM300) Large Adverse
- Medieval unknown archaeological remains (MM301) Large Adverse

1.4.2 These assets have already reported the same significant effect as either a permanent construction effect or an effect during operation. As such the conclusions of the assessment and mitigation proposed remains unchanged from that set out in Chapter 6 Cultural Heritage (APP-043) and Appendix 6.1 Cultural Heritage DBA (APP-067) of the ES.