

Scottish Power Renewables

CARRICK WINDFARM

Appendix 4.1 - Proposed Offsite Access Route: Appraisal





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CARRICK WINDFARM - PROPOSED OFFSITE ACCESS ROUTE: APPRAISAL

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1 CARRICK WINDFARM - PROPOSED OFFSITE ACCESS ROUTE: APPRAISAL

1.1 INTRODUCTION

- 1.1.1. Onshore windfarm developments typically require minor highways upgrade works to allow abnormal loads and construction vehicles access to the remote locations. These minor works are not assessed as part of an Environmental Impact Assessment (EIA), as they are rarely likely to lead to significant effects. In this instance, ScottishPower Renewables (hereafter referred to as 'the Applicant'), have considered that it would be prudent to undertake a discrete appraisal to determine whether any potential significant effects are likely, in relation to any potential highways upgrades to the proposed offsite access route associated with Carrick Windfarm (hereafter referred to as the 'Proposed Development').
- 1.1.2. This Appraisal identifies any potential likely significant effects as a result of the proposed offsite access route to the Proposed Development.

1.2 ACCESS TO SITE

- 1.2.1. It is proposed that the wind turbines for the Proposed Development would be delivered to the King George V Dock in Glasgow. The wind turbines would be moved from the dock to the Site under escort. From the King George V Dock, the wind turbines would be moved west along Kings Inch Drive to the M8, where they would travel east before travelling south along the M74/M6 to Carlisle. Here, the vehicles would turn and continue to travel north along the M6 to the A75 and U52w then on to the A714 where they would travel north and onto the C46W public road before accessing the Site.
- 1.2.2. Permanent access into the Site is proposed from two existing entrances to the Carrick Forest from the C46W public road. Both the access points will be constructed to the appropriate standards required, to facilitate access by both construction vehicles and abnormal loads.

1.3 PROPOSED OFFSITE ACCESS ROUTE TO BE APPRAISED

- 1.3.1. For the purposes of this Appraisal, the proposed offsite access route has been assessed from just after Bargrennan Bridge, running from the junction of the C46W and the A714 north to the junction of the C46W and the southernmost entrance to the Proposed Development (as illustrated on Figure 1, Appendix A). The route is approximately 25 kilometres (km) in length.
- 1.3.2. The C46W is a single carriageway road starting in the Dumfries and Galloway Council (D&GC) area and crossing into South Ayrshire Council (SAC) area as it travels north. The carriageway has the national speed limit in place, with inter-visible passing places located throughout its length. The carriageway width varies throughout, ranging from approximately 3 metres (m) up to 6.8m.
- 1.3.3. The C46W is a council road which is used by FLS for timber traffic. FLS manage the National Forests and land on either side of the road on behalf of the Scottish Government.

1.4 METHODOLOGY

- 1.4.1. The Appraisal methodology is as follows:
 - identification of points of interest (POI);



- identification of works required;
- identification of design parameters;
- identification of existing environmental baseline;
- identification of potential impacts;
- identification of embedded mitigation; and
- Appraisal.

POINTS OF INTEREST

- 1.4.2. A route survey report was undertaken prior to this Appraisal. The route survey report identified POI along the C46W where potential highways upgrades may be required to accommodate the delivery of wind turbine components (shown within Figure 2, Appendix A and in greater detail in Appendix B). This proposed offsite access route has been considered due to the existing characteristics of the route through this section i.e., changes in carriageway widths and changes in both the horizontal and vertical alignments of the running surface.
- 1.4.3. The proposed offsite access route has been split by Local Authority areas in the first instance, before being split into 5km sections, as shown in **Figure 2, Appendix A:**
 - D&GC Section A (POI 36 to POI 43);
 - D&GC Section B (PO 44 to POI 58);
 - SAC Section A (POI 59 to POI 74);
 - SAC Section B (POI 75 to POI 84); and
 - SAC Section C (POI 85 to POI 94).
- 1.4.4. Following the identification of the POI and the potential works at the POI, design parameters were developed (as detailed in **paragraphs 1.4.9 1.4.10** below) and were considered within the Appraisal (see **Table 2-1**).

POTENTIAL WORKS

- 1.4.5. At this stage, the exact detail of the specific highways upgrade at each POI is unknown, however, it is anticipated that the majority of the works will occur in the highway boundary and would typically comprise of the following:
 - trimming and removal of vegetation and trees;
 - carriageway widening in verge areas and regrading;
 - removing / lowering of stone walls;
 - removal of lighting column;
 - removal of telegraph pole and stay cables;
 - removal of road signs; and;
 - potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.
- 1.4.6. In addition to the above temporary construction compounds will be required to accommodate the works. The location and dimensions are unknown at this time and will be agreed with the council ahead of any works commencing.
- 1.4.7. Further detail on the works required at each POI are summarised in **Section 3** below and are also provided in detail in **Appendix C**. It should be noted that while there are works identified at each POI, environmental impacts are not anticipated as a result of these works at each POI.



1.4.8. With regards to bridges on the proposed access route, a review of the Electronic Service Delivery for Abnormal Loads (ESDAL) database has been undertaken and this did not highlight any known issues or constraints on the proposed access route. To confirm this, information on the likely vehicle set up for the abnormal loads was provided to all relevant stakeholders to confirm the suitability of the structures on the proposed route, with no issues identified. Further assessment of any affected structures would be undertaken at the appropriate time to assess their suitability for the candidate turbine and following confirmation of the component transportation method. This would be undertaken in full consultation with the relevant stakeholders.

DESIGN PARAMETERS

- 1.4.9. Until such time as a candidate wind turbine has been selected, it has been necessary to make a number of assumptions in relation to the design parameters of the potential works. As such, general design parameters for the proposed offsite access route have been identified to aid the Appraisal process. These include the following:
 - new surface materials for widening sections will be made up to the appropriate standard as required by the Local Roads Authority, with all works undertaken to tie in with existing carriageway construction details;
 - widening on straight sections has been assumed at 4.5m (absolute minimum). Depending on carriageway gradient, curvature and method of transport, this can increase up to 6m at locations. With regards to widening on bends, again this will vary depending on carriageway gradient, bend radii and method of transport, this can vary between 5m and 7m;
 - a minimum clearance of 1.5m has been assumed on both sides of the carriageway running surface through straight sections. This is to allow for a clear running channel from obstructions such as vegetation and street furniture;
 - following agreement with the Local Authority, all walls and signage will only be temporarily removed and will be reinstated;
 - telegraph poles and other above ground utilities will be relocated or undergrounded as necessary; and
 - any earthworks associated with sections where the road is widened will be graded back to tie in with existing levels.
- 1.4.10. Following confirmation of the candidate wind turbine, all work on both site and public roads will adhere to the approved roads and transportation design guidelines. These guidelines will specify design criteria including, but not limited to road widths, acceptable gradients, running channel clearance, vertical curvature of the carriageway running surface and lateral crossfall. Any deviation from these guidelines would be agreed with both the wind turbine manufacturer, the Local Roads Authority and haulage contractor (if appointed at that time).

EXISTING ENVIRONMENTAL BASELINE

- 1.4.11. The existing environmental baseline was identified along the proposed offsite access route via a desktop exercise. Each environmental topic reviewed the following information to undertake this appraisal:
 - Carrick Windfarm Route Survey Report (WYG, 2019);
 - Carrick Windfarm Abnormal Load and Construction Access Route Review;



- WSP route review of the offsite access was undertaken by video survey on 29 September 2020¹; and
- Environmental Constraints Plan (**Figures 3a-b, Appendix A**).
- 1.4.12. The existing environmental baseline is detailed in **Table 3-1** below and also shown within the Environmental Constraints Plan (**Figures 3a-b, Appendix A**).

EMBEDDED MITIGATION

1.4.13. Embedded mitigation specific to the proposed offsite access route was identified, as shown in Table
 2-1 and also detailed in Appendix C.

APPROACH TO APPRAISAL

- 1.4.14. Following a review of the environmental constraints and taking into consideration the embedded mitigation (as detailed in **Table 2-1**), potential impacts were identified arising from the works required to upgrade the carriageway to facilitate access to the Proposed Development. The findings of this are captured in the Appraisal table, included in **Appendix C**.
- 1.4.15. A four-point scale was used to rate the likely potential effects. This scale follows the methodology set out in the EIAR and is as described below:
 - negligible where the Proposed Development would result in no discernible improvement or deterioration of the existing environment;
 - minor adverse effect where the Proposed Development would result in a small deterioration of the existing environment;
 - moderate adverse effect where the Proposed Development would result in a noticeable deterioration of the existing environment; and
 - major adverse effect where the Proposed Development would result in a significant deterioration of the existing environment.
- 1.4.16. The potential for likely significant effects were identified in the Appraisal table (**Appendix C**) using a RAG (red, amber, green) rating as per the following definitions:
 - red: Major adverse effect and therefore significant;
 - amber: Moderate adverse effect and therefore significant; and
 - green: Minor adverse effect and therefore not significant.
- 1.4.17. Any additional mitigation was applied where potential likely significant effects were highlighted.
- 1.4.18. The assessment considers significant effects of '**moderate and greater**' significance to be significant (in line with the methodology presented within the EIAR). Any likely potential significant effects identified of **moderate or above** following additional mitigation will be carried into the EIAR.
- 1.4.19. The Appraisal allows for different POI along the offsite access works to be appraised against the following EIA disciplines:
 - Landscape and Visual;

¹ It should be noted that this video is more recent than using Google Streetview.



- Hydrology, Hydrogeology and Geology and Soils;
- Ecology and Biodiversity;
- Ornithology;
- Noise; and
- Archaeology and Cultural Heritage.
- 1.4.20. Within this Appraisal, forestry is not being regarded as a receptor for EIA purposes.
- 1.4.21. Works to the proposed offsite access route is assessed in **Chapter 11: Traffic and Transport** chapter of the EIAR.

2 MITIGATION

EMBEDDED MITIGATION

2.1.1. Embedded mitigation comprises both design features and standard construction practices or legislative requirements including recommended published guidance from statutory bodies. These measures are assumed to be in place prior to assigning potential effects as part of the EIAR and effectively form part of the Proposed Development.

Table 2-1 below outlines the embedded mitigation proposed per environmental topic.

Environmental Topic	Embedded Mitigation / Further Survey Requirements
Landscape and Visual	 widening should be kept to the minimum width necessary - no excess;
	 no kerbs - keep informal edge appearance to reduce impact on rural character;
	 consider use of mounding/lips on sensitive side (generally south east) which will help screen views of the widened road from elevated locations within the Wild Land Area (WLA);
	 in less remote parts of the route, the reinstatement of stone walling where removed for access may also help reduce visibility of the widened route and integrate into the existing landscape character;
	 where parts of the route need to be unavoidably straightened going against the grain of the landscape, use of mounding / lips could be used to follow the natural contours to reduce the visual impacts;
	- grade out new earthwork slopes to tie into the existing landform;
	 in areas where broadleaf trees need to be potentially removed or cut back, an Arborculturalist will need to survey the trees to identify the quality and condition and advise on mitigation or avoidance; and
	 have regard to the guidance within NatureScot's² 'Constructed Tracks in the Scottish Uplands' (2nd Edition 2013, updated Sept 2015). Whilst focussing on new tracks, it still has valuable landscape and visual advice (as well as for biodiversity and geodiversity) relevant for this project.
Hydrology, Hydrogeology and Geology and Soils	 the adoption of the applicable good practice measures will be detailed in the Outline Construction Environmental Management Plan (CEMP) to reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation;
	- the adoption of the applicable good practice measures will be summarised in the Outline CEMP to reduce the probability of a

Table 2-1 – Embedded Mitigation / Further Survey Requirements

² Formerly known as Scottish Natural Heritage.

Environmental Topic	Embedded Mitigation / Further Survey Requirements
	sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures;
	 the design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect; and
	 any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change.
Ecology and Biodiversity, Ornithology	 the undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects;
	 any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and Scottish Environmental Protection Agency (SEPA), would reduce the potential adverse effects; and
	 avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works Ecological Clerk of Works (ECoW) checks for nesting birds.
Noise	 during construction, works to be undertaken in accordance with the principle of Best Practicable Means (BPM) as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).
Archaeology and Cultural Heritage	 to avoid impacts on the subsoil interface, no tree stump/root removal to take place; and
	 demarcation of assets and potential works required to avoid any direct impacts to the identified assets.



3 APPRAISAL SUMMARY

- 3.1.1. **Table 3-1** provides the following an overview:
 - identifies the POI along each section of the proposed offsite access route;
 - identifies potential works required at each POI;
 - identifies the existing environmental baseline and any environmental constraints;
 - identifies any embedded mitigation required;
 - identifies any potential impacts (following embedded mitigation);
 - details any likely potential significant effects as a result of the proposed offsite access route on the environment; and
 - identifies any additional mitigation measures envisaged to avoid, prevent or reduce what might otherwise have been significant adverse effects on the environment.
- 3.1.2. Further details on the Appraisal can be found in Appendix C.
- 3.1.3. In summary, the information presented within this Appraisal demonstrates that the works required for the proposed offsite access route, with the embedded mitigation considered (as detailed Table 2-1, are unlikely to give rise to likely potential significant effects (moderate or above). Therefore, no likely potential significant effects have been carried forward into the Carrick Windfarm EIAR, as summarised in Table 3-2.



Table 3-1 – Appraisal Overview

Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additiona Mitigation Required
D&GC – Section A	POI 36 to POI 43	Carriageway width at or above minimum requirements on straight sections based on on-site observations. Potential requirement for localised widening at bends and at other locations of mitigation works. Potential removal / relocation of street furniture / telegraph poles. Vegetation / trees lining carriageway, likely requirement for this to be cut back or removed. Changes in both the vertical and horizontal alignment of the carriageway at locations through this section. Potential for localised carriageway widening,	 Within the Dumfries and Galloway Council administrative boundary. This section of the C46W joins onto the A714. This section of the proposed offsite access route goes through Glentrool Forest. Northern extent of this section is within the Galloway Forest Park. Pockets of Ancient Woodland to the south, east and west of the route, near Glentrool Village. Within the Dumfries and 	See Table 2-1 above for topic specific embedded mitigation.	 Landscape and Visual: At POI 36, due to extent of widening this may result in some minor loss / cut back of broadleaf / mixed woodland and potentially small sections of stone walls which are a characteristic of this part of the route. However, it is considered it would be very localised and unlikely to create significant effects. At POIs 37, 38, 39, 40, 42 and 43 there is the potential for minor impacts as tree works will be within commercial forestry edges. At POI 41, there is the potential for very localised impacts on character and visual amenity of local residents through the road widening and loss of stone wall, plus tree canopy to be cut back. 	Following applying the embedded mitigation as identified in Table 2-1 above, there are no likely potential significant effects are anticipated.	None



Section of Proposed Offsite Access Route	ΡΟΙ	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
		over-run areas, embankment re-grading and carriageway re- grading.	Galloway Scenic Area. - National Cycle Network (NCN) Route 7 runs along this stretch of the proposed offsite access route. – Pockets of peatland habitat (importance category 1) located to the south west of the proposed offsite access route. - A number of watercourses cross this section of the proposed offsite access route. - There are a number of residential properties within Glentrool Village (see Figure 3b, Appendix A).		 Hydrology, Hydrogeology, Geology and Soils: No adverse impacts are anticipated as a result of the proposed works. Ecology and Biodiversity: No adverse impacts are anticipated as a result of the proposed works. Ornithology: Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. Noise: At POIs 36, 37, 38, 39, 40 and 41, there is potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors Archaeology Cultural Heritage: It is anticipated to have no or negligible benefit or negative impact on cultural heritage features. 		



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
			Glentrool campsite is also located within this section of the proposed offsite access route.		Forestry: Tree removal may be required dependant on the extent of works required.		
D&GC – Section B	POI 44 to POI 58	For the majority if this section, the carriageway width at or above minimum requirements on straight sections based on on-site observations, until POI58 where it drops to circa. 3.5m. Widening required at these locations. Potential requirement for localised widening at bends and at other locations of mitigation works. Potential removal / relocation of street furniture / telegraph poles. Vegetation / trees lining carriageway, likely	 Within the Dumfries and Galloway Council administrative boundary. Located within the Galloway Forest Park. Within the Dumfries and Galloway Scenic Area. Pockets of native woodland to the west of the proposed offsite access route. Schedule 1 breeding species (osprey) located within this area. 	See Table 2-1 above for topic specific embedded mitigation.	 Landscape and Visual: At POI 46, potential impacts due to potential widening and re-grading works resulting in removal of forestry. This would potentially slightly open up this part of the route which already has an open aspect to the east so is quite visible from the wider landscape, albeit within commercial forestry extents. At the other remaining POIs, there is potential for minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents. Hydrology, Hydrogeology, Geology and Soils: No adverse impacts are 	Following applying the embedded mitigation as identified in Table 2-1 above, there are no likely potential significant effects are anticipated.	None



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
		requirement for this to be cut back or removed. Changes in both the vertical and horizontal alignment of the carriageway at locations through this section. Potential for localised carriageway widening, over-run areas, embankment re-grading and carriageway re- grading.	 Scheduled Monument: Suie Tollhouse (NX 3572 8655) located directly under the road of the proposed offsite access route. Two undesignated assets: Suie Linn, Corn Drying Kiln (NX 36165 85966) located directly under the road of the proposed offsite access route. NCN Route 7 runs along this stretch of the proposed offsite access route. A Scottish Hill Track crosses the proposed offsite access route to the 		 anticipated as a result of the proposed works. Ecology and Biodiversity: No adverse impacts are anticipated as a result of the proposed works. Ornithology: Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. At POIs 55, 56, 57, 58 and 59 vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the legislative compliance of works (such as postponement/prohibition of 		



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
			north of Loch Moan. - Pockets of peatland habitat (importance category 1) to the east of the proposed offsite access route. - A number of watercourses cross this section of the route. Loch Moan is located to the west of the proposed offsite access route.		 works with a nest exclusion zone), negligible impacts on ornithological features are anticipated. Noise: There are no potential impacts anticipated. Archaeology Cultural Heritage: without mitigation there is the potential to have direct impacts on a number of assets including; Scheduled Monument (Suie Tollhouse and an undesignated asset (Suie Linn, Corn Drying Kiln). Impacts from the potential works may result in a significant deterioration of the cultural heritage resource prior to mitigation. Forestry: Tree removal may be required dependant on the extent of works required. 		
SAC – Section A	POI 59 to POI 74	Carriageway width varies through this section, evidence of previous carriageway widening works at locations. Minimum width measured at circa. 3.5m at locations. Widening	 Within the South Ayrshire Council administrative boundary. Located within the Galloway Forest Park. 	See Table 2-1 above for topic specific embedded mitigation.	Landscape and Visual: - There is the potential for minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Following applying the embedded mitigation as identified in Table 2-1 above, there are no	None



Section of Proposed Offsite Access Route	ΡΟΙ	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
		required at locations below required standard. Potential requirement for localised widening at bends and at other locations of mitigation works. Potential removal / relocation of street furniture / telegraph poles. Vegetation / trees lining carriageway, likely requirement for this to be cut back or removed. Changes in both the vertical and horizontal alignment of the carriageway at locations through this section. Potential for localised carriageway widening, over-run areas, embankment re-grading and carriageway re- grading.	 A small pocket of Ancient Woodland is located adjacent to the east of the proposed offsite access route. Schedule 1 breeding species (osprey) located within this area. The Rig of Shalloch is located to the east of the proposed offsite access route. Scheduled Monument: Rowantree Tollhouse and Inn (NX 3528 9040) located directly under the road of the proposed offsite access route. Two 		 At POI 72, there is the potential for localised impact from widening and tree loss, due to sensitivity of visitor destination (Bell's Memorial), stone bridge and open character of this part of the route. Hydrology, Hydrogeology, Geology and Soils: No adverse impacts are anticipated as a result of the proposed works. Ecology and Biodiversity: No adverse impacts are anticipated as a result of the proposed works. Ornithology: At POI 59, vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the 	likely potential significant effects are anticipated.	
			undesignated		legislative compliance of		



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
		Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	assets (Water of Minnnock, Ree (NX 3573 8794) and Laigh Rowantree Bridge (NX 3530 9063) crossing the proposed offsite access route. - A core path runs along this section of the proposed offsite access route. - South Ayrshire Local Landscape Area is located to the east of the proposed offsite access route. - A watercourse crosses this section of the proposed offsite access route at Laigh Rowantree Bridge. - There are three residential		 works (such as postponement/prohibition of works with a nest exclusion zone), negligible impacts on ornithological features are anticipated. At the other remaining POIs, vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. At POIs 67, 68, 71, 72 and 73, there is the potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors Archaeology Cultural Heritage: without mitigation there is the potential to have direct impacts on a number of assets including: Scheduled Monument (Rowantree 		



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
			properties located along the proposed offsite access route in this section (see Figure 3b , Appendix A).		 Tollhouse and Inn) and two undesignated assets (Laigh Rowantree Bridge, Water of Minnoch, Ree). Impacts from the potential works considered may result in a significant deterioration of the cultural heritage resource prior to mitigation. Forestry: Tree removal may be required dependant on the extent of works required. 		
SAC – Section B	POI 75 to POI 84	Carriageway width varies through this section, evidence of previous carriageway widening works at locations. Minimum width measured at circa. 3.5m at locations. Widening required at locations below required standard. Potential requirement for localised widening at bends and at other locations of mitigation works.	 Within the South Ayrshire Council administrative boundary. Located within the Galloway Forest Park. Located within the Carrick Forest. A Wild Land Area is located to the east of the proposed offsite access route. 	See Table 2-1 above for topic specific embedded mitigation.	 Landscape and Visual: The potential widening and regrading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route. Hydrology, Hydrogeology, Geology and Soils: No adverse impacts are anticipated as a result of the proposed works. Ecology and Biodiversity: No adverse impacts are anticipated as a result of the proposed works. 	Following applying the embedded mitigation as identified in Table 2-1 above, there are no likely potential significant effects are anticipated.	None



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
		Potential removal / relocation of street furniture / telegraph poles. Vegetation / trees lining carriageway, likely requirement for this to be cut back or removed. Changes in both the vertical and horizontal alignment of the carriageway at locations through this section. Potential for localised carriageway widening, over-run areas, embankment re-grading and carriageway re- grading. Localised drainage issues lining the carriageway through this section.	 This section of the proposed offsite access route is within the South Ayrshire Local Landscape Area. The proposed offsite access route traverses through peatland habitat (importance category 1). A watercourse runs parallel to the east of the proposed offsite access route. There is one residential property located directly to the south of the proposed offsite access route in this section (see Figure 3b, Appendix A). 		 Ornithology: At POIs 75, 76, 79a and b, 80, 81, 82, 83 and 84, Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. At the other remaining POIs, there is the potential for negligible impacts on ornithological features. Noise: At POIs 75 and 76, there is the potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors. Archaeology Cultural Heritage: It is anticipated to have no or negligible benefit or negative impact on cultural heritage features. 		



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
					Forestry: Tree removal may be required dependant on the extent of works required.		
SAC – Section C	POI 85 to POI 94	Carriageway width varies through this section, which has been subject to widening works. Below required width at locations. Potential requirement for localised widening at bends and at other locations of mitigation works. Potential removal / relocation of street furniture. Vegetation / trees lining carriageway, likely requirement for this to be cut back or removed. Changes in both the vertical and horizontal alignment of the carriageway at locations through this section.	 Within the South Ayrshire Council administrative boundary. Within the Galloway Forest Park. A Wild Land Area is located to the east of the proposed offsite access route. This section of the proposed offsite access route is within the South Ayrshire Local Landscape Area. Native woodland located to the east of the proposed offsite access route (near the entrance 	See Table 2-1 above for topic specific embedded mitigation.	 Landscape and Visual: At POIs 85, 86 and 87, the potential widening and regrading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route. At POIs 88, 89, 90, 91, 92, 93 and 94, there is a potential for a minor effect due to works largely within existing road corridor and tree works would be within commercial forestry extents. Hydrology, Hydrogeology, Geology and Soils: No adverse impacts are anticipated as a result of the proposed works. 	Following applying the embedded mitigation as identified in Table 2-1 above, there are no likely potential significant effects are anticipated.	None



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
		Potential for localised carriageway widening, over-run areas, embankment re-grading and carriageway re- grading. Localised drainage issues lining the carriageway through this section.	to the Proposed Development). - A Cornish Hill Track crosses the proposed offsite access route and runs to the east. - A Scottish Hill Track crosses the proposed offsite access route and one of the tracks follows the route north along the C46W. - A Core Path and Carrick Forest Drive cross the proposed offsite access route. - Pockets of peatland habitat (importance category 1) to the east and west of the proposed offsite access route.		 Ornithology: Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. Noise: At POI 94, there is the potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors. Archaeology Cultural Heritage: At POI 88, there is potential for a minor adverse impact on the existing Stinchar Bridge. Forestry: Tree removal may be required dependant on the extent of works required. 		



Section of Proposed Offsite Access Route	POI	Overview of Proposed Offsite Access Route / Potential Works	Environmental Constraints (see Figures 3a and 3b, Appendix A)	Embedded Mitigation	Potential Impacts	Potential Likely Significant Effects	Additional Mitigation Required
			 A number of watercourses cross this section and / or run parallel to the proposed offsite access route. There is one residential property located near the entrance to the Proposed Development in this section (see Figure 3b, Appendix A). 				

3.1.4. **Table 3-2** below provides a summary of the potential significant effects of the whole route for each environmental topic.

Table 3-2 – Cumulative Appraisal

Environmental Topic	Cumulative Appraisal of the Whole Route
Landscape and Visual	No greater than minor landscape and visual effects have been identified for localised areas and the route as a whole, following application of the embedded mitigation. Whilst there will be localised minor changes, particularly outwith the commercial forestry in the more sensitive northern open moorland sections of the route, the type and limited extent of development combined with the embedded mitigation would ensure that when

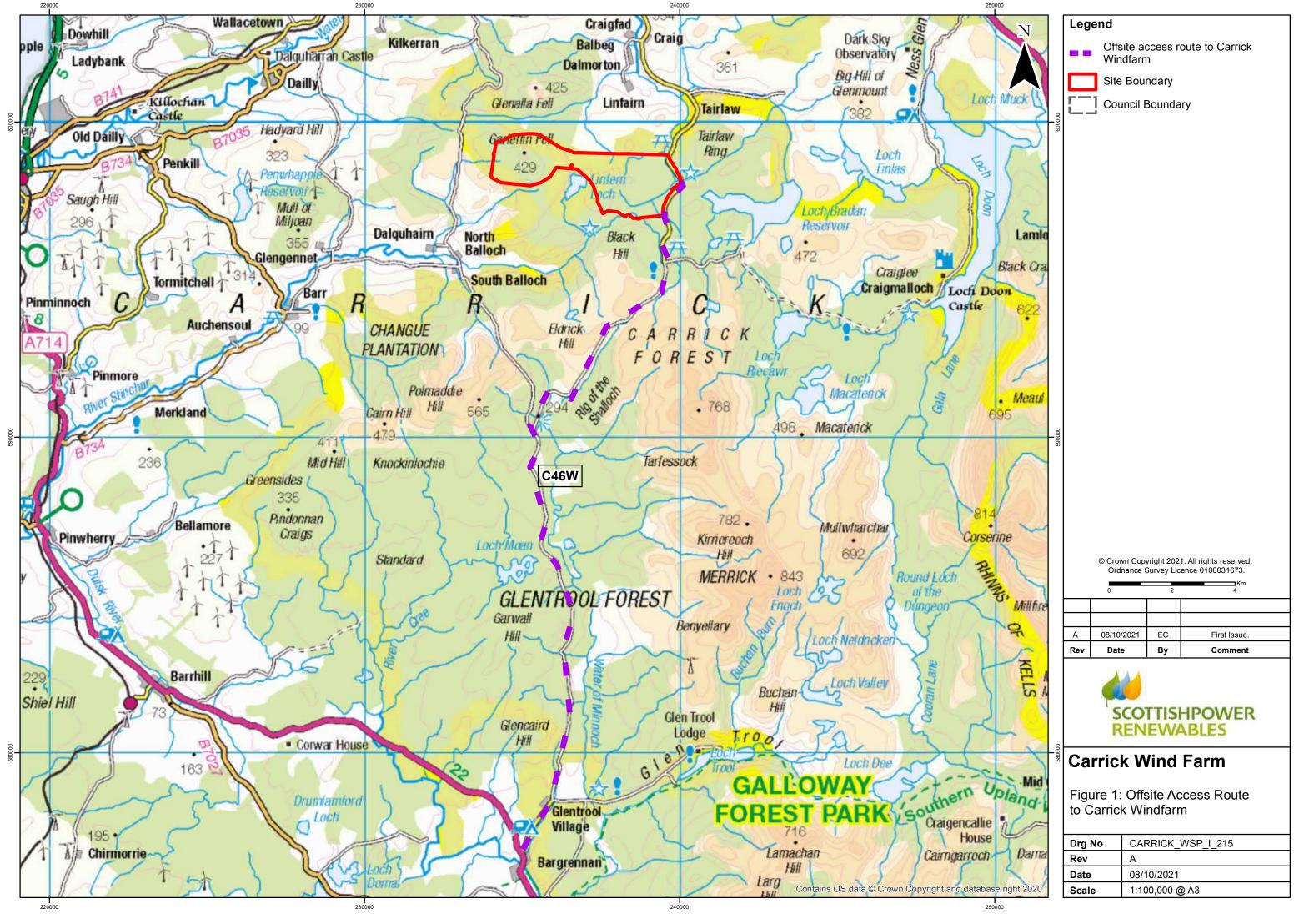
Environmental Topic	Cumulative Appraisal of the Whole Route
	considered cumulatively across the full length of the route there would not be any significant effects on landscape character or visual amenity.
Hydrology, Hydrogeology, Geology and Soils	Considering the works anticipated on the full length of the route, there are no potential significant cumulative effects anticipated to Hydrology, Hydrogeology, Geology and Soils.
Ecology and Biodiversity	Considering the works anticipated on the full length of the route, there are no potential significant cumulative effects anticipated to Ecology and Biodiversity.
Ornithology	Considering the works anticipated on the full length of the route, there are no potential significant cumulative effects anticipated to Ornithology.
Noise and Vibration	Considering the works anticipated on the full length of the route, there are no potential significant cumulative effects anticipated for Noise and Vibration.
Archaeology and Cultural Heritage	Considering the works anticipated on the full length of the route, there are no potential significant cumulative effects anticipated to Archaeology and Cultural Heritage.
Forestry	Considering the works anticipated on the full length of the route, there are no potential significant cumulative effects anticipated to Forestry.

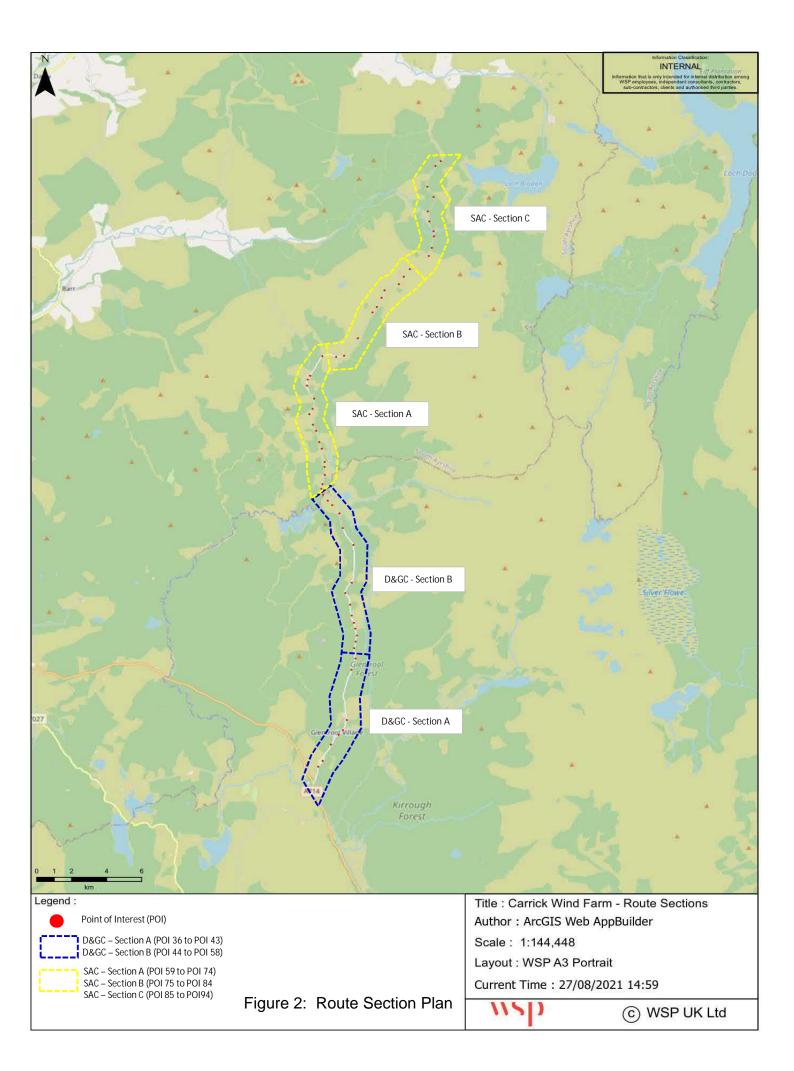
Appendix A

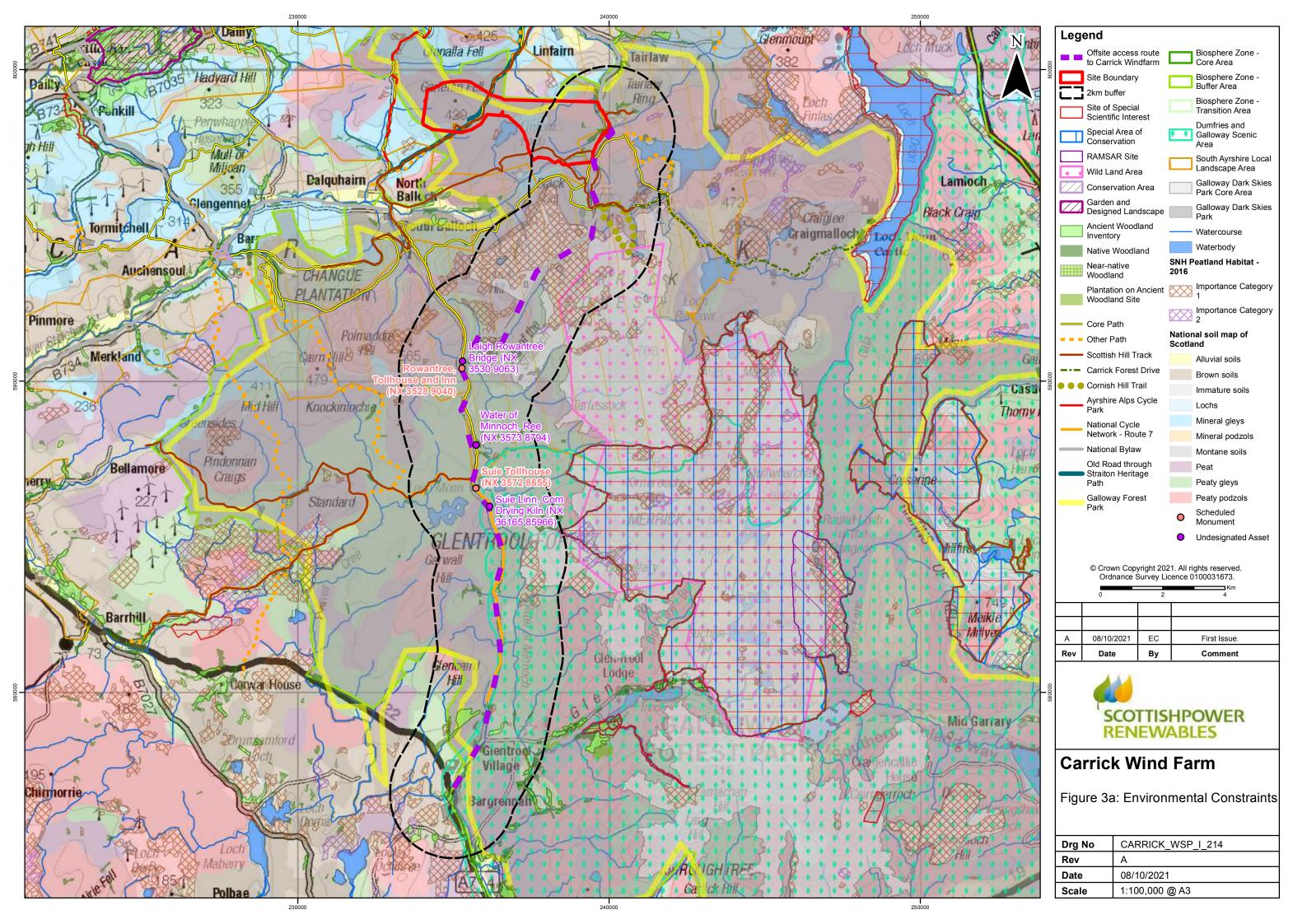
FIGURES

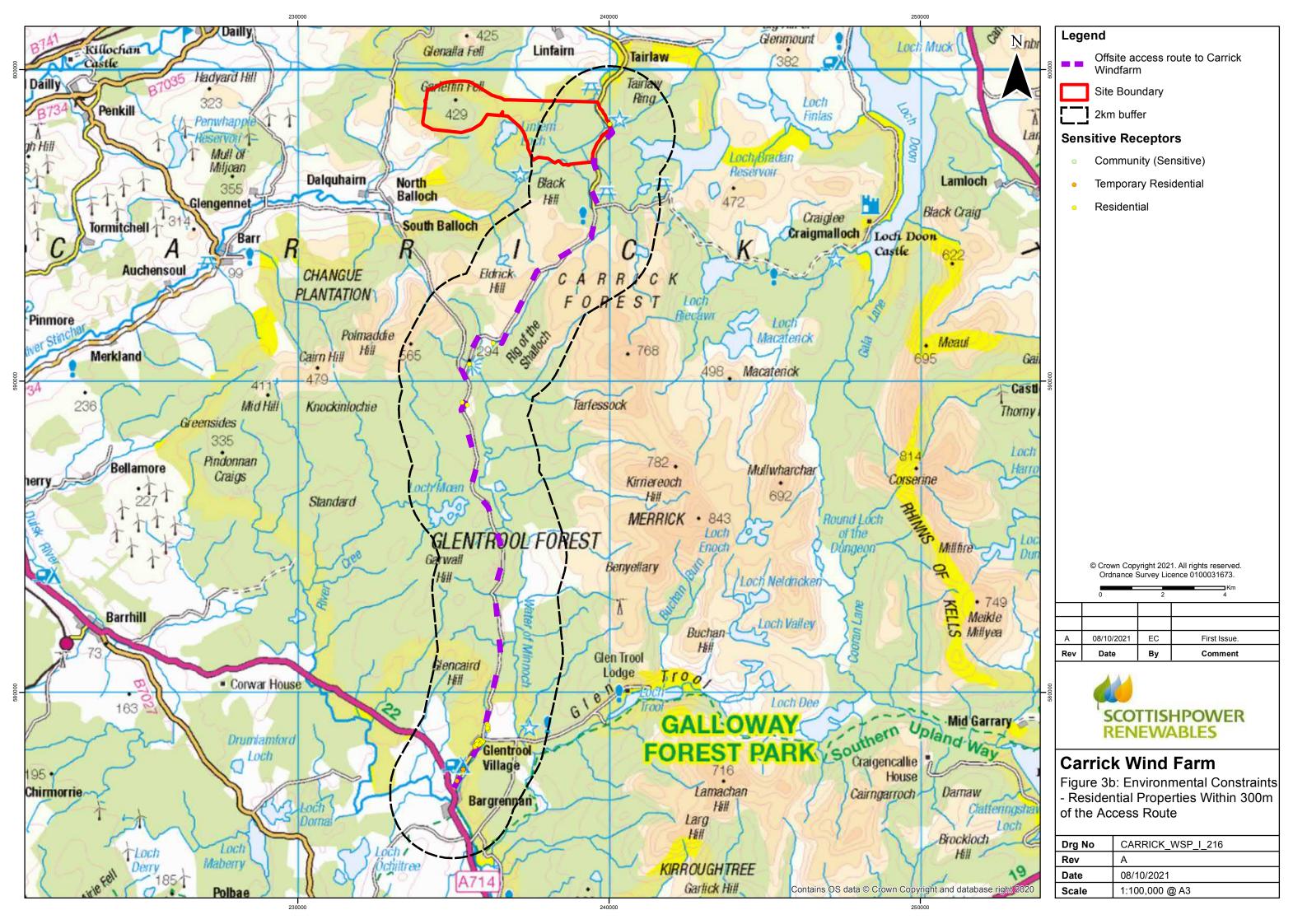
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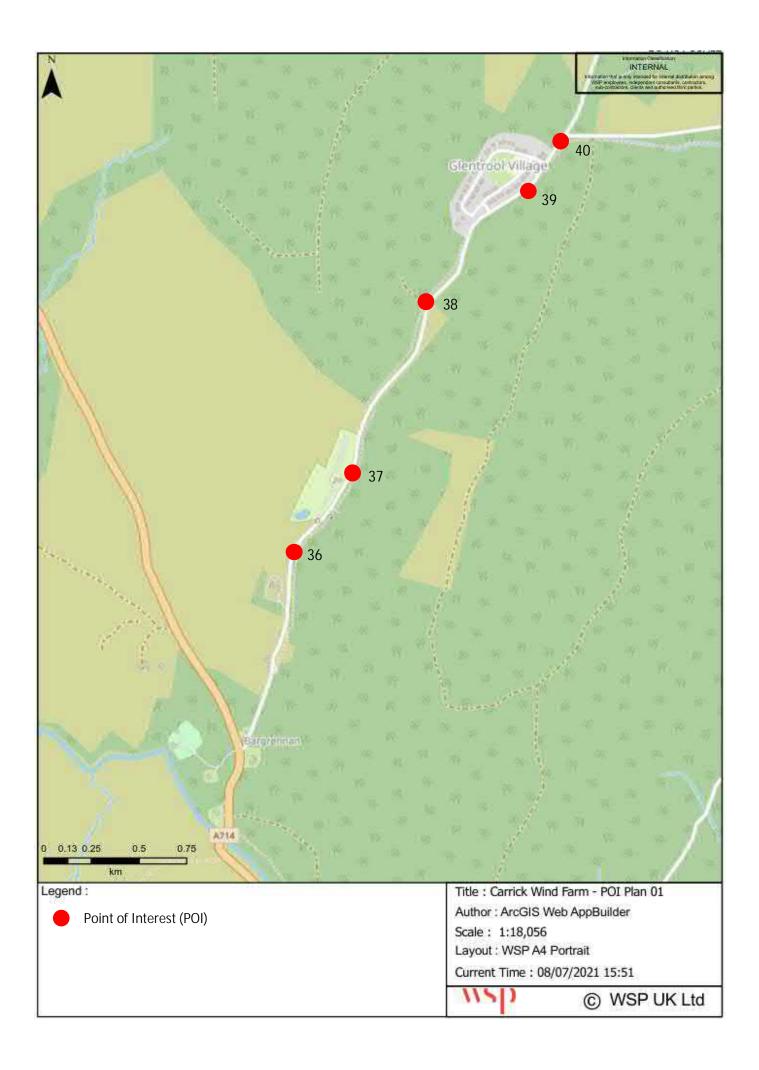


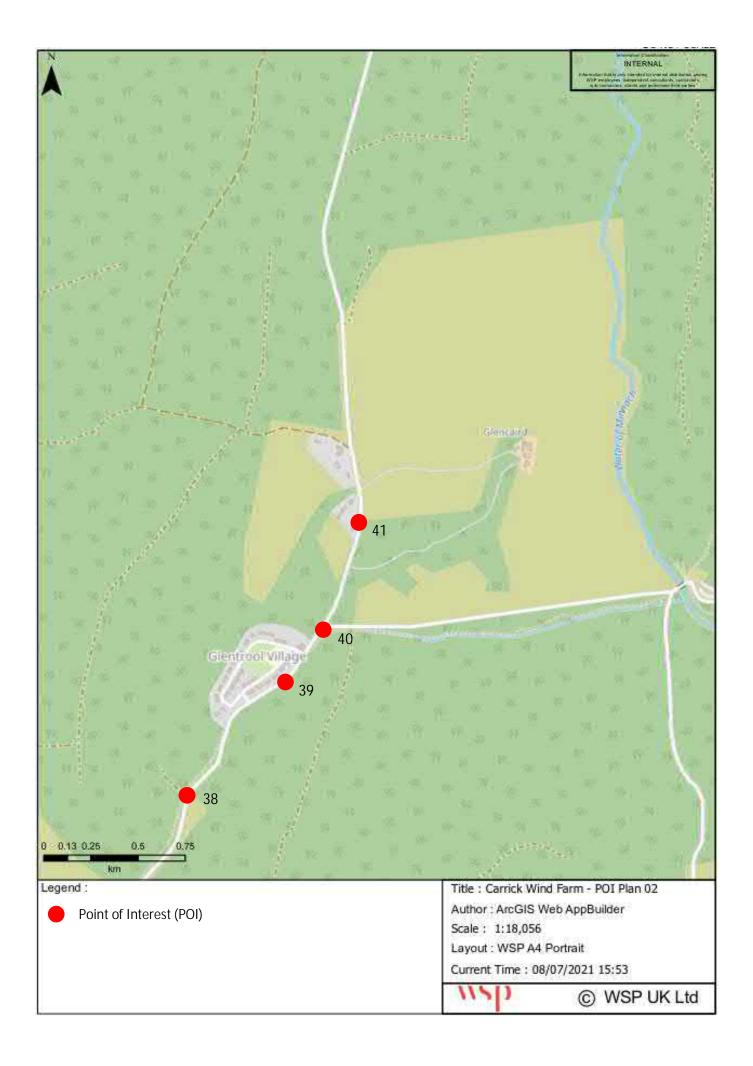


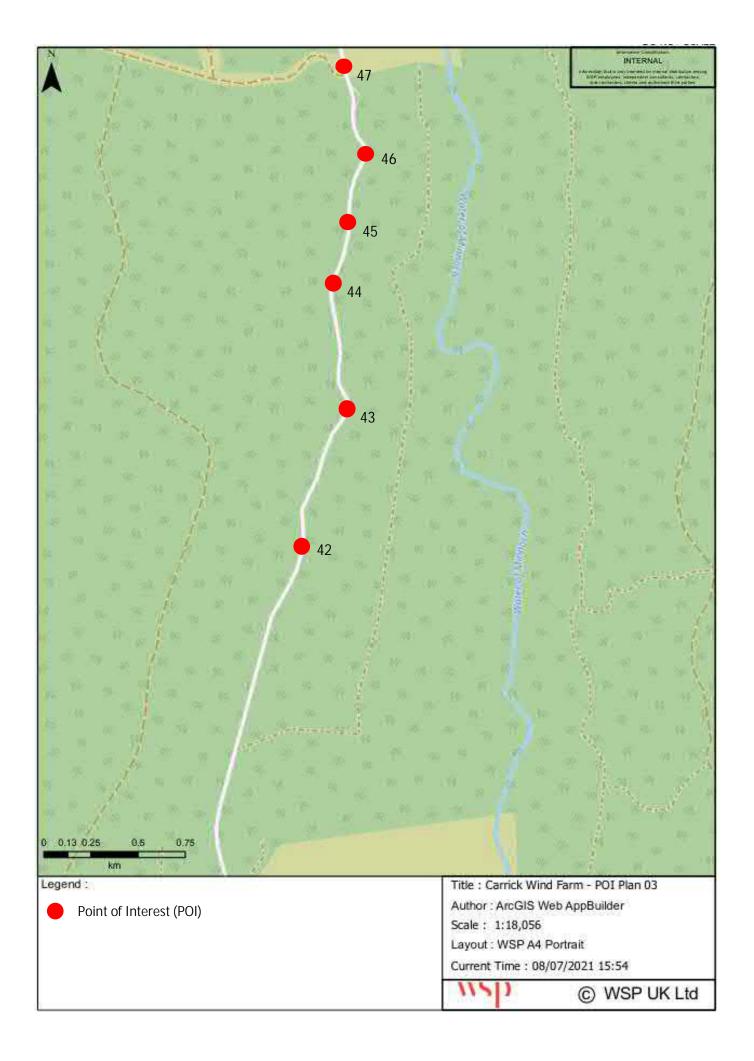
Appendix B

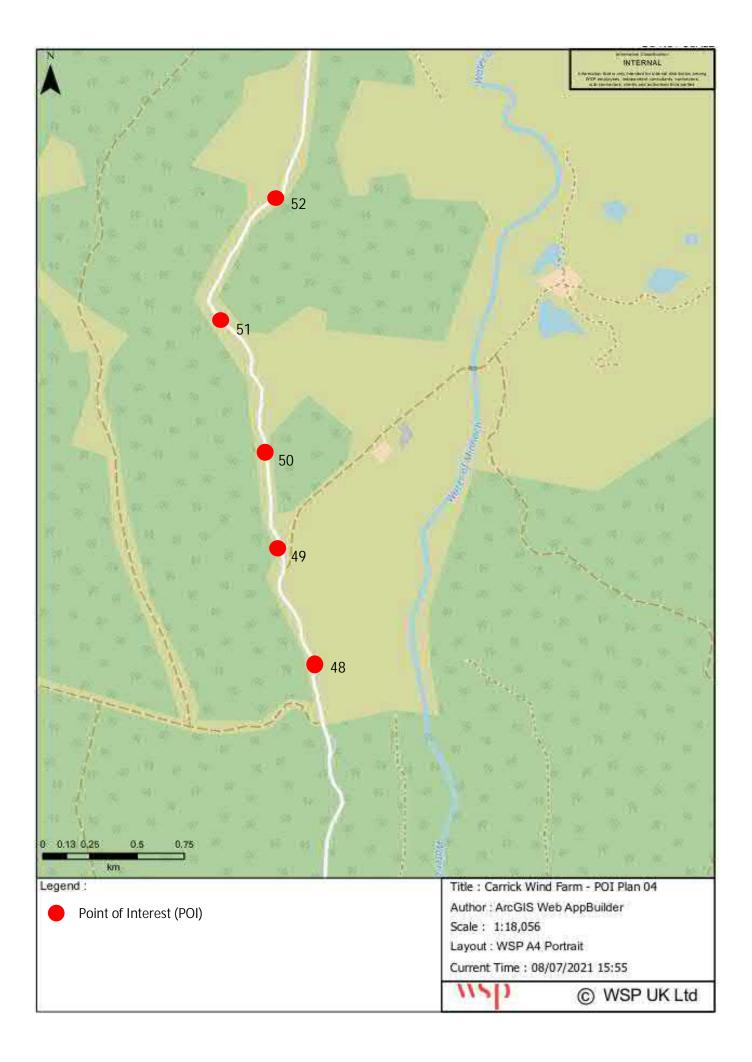
POINT OF INTEREST LOCATIONS

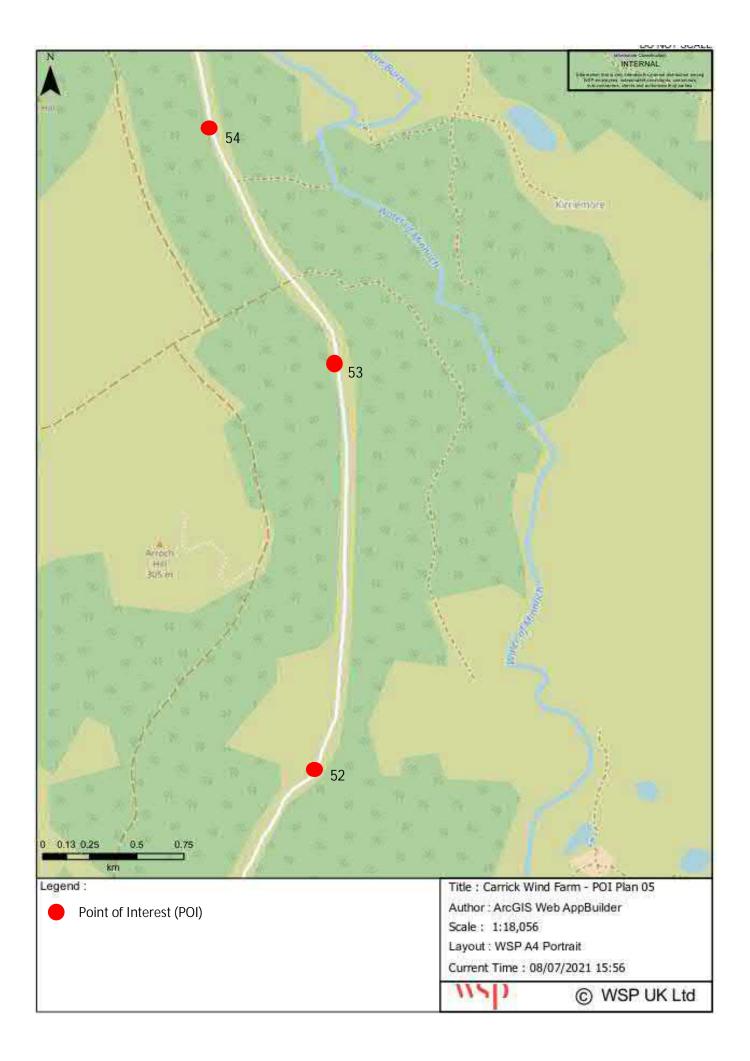
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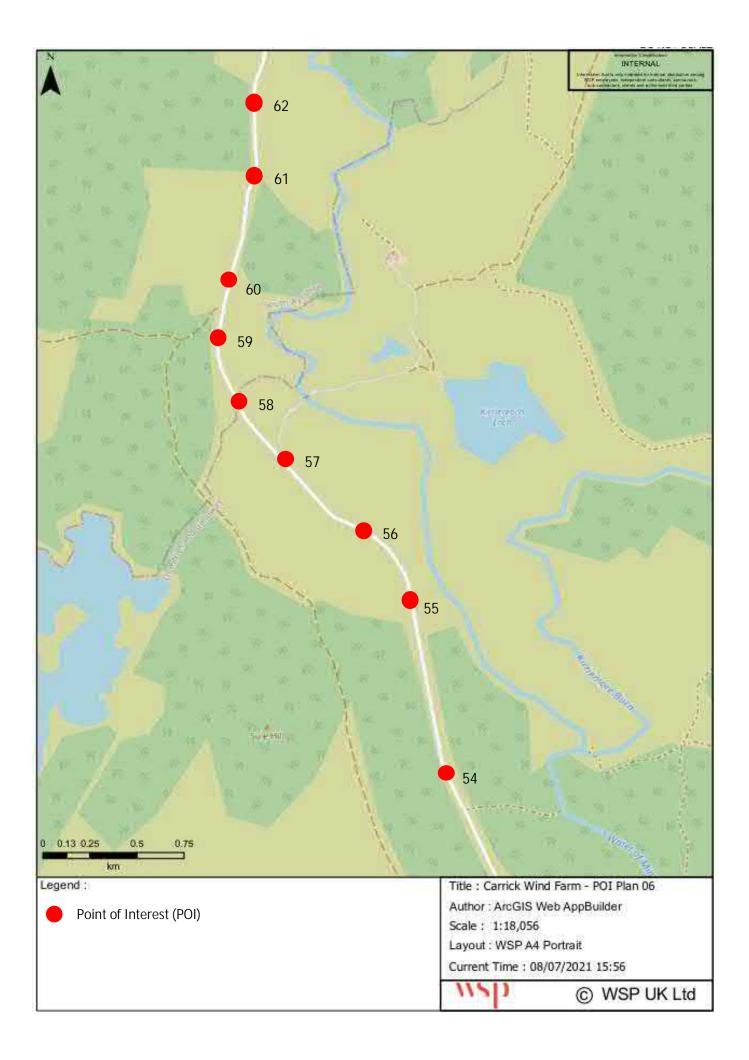


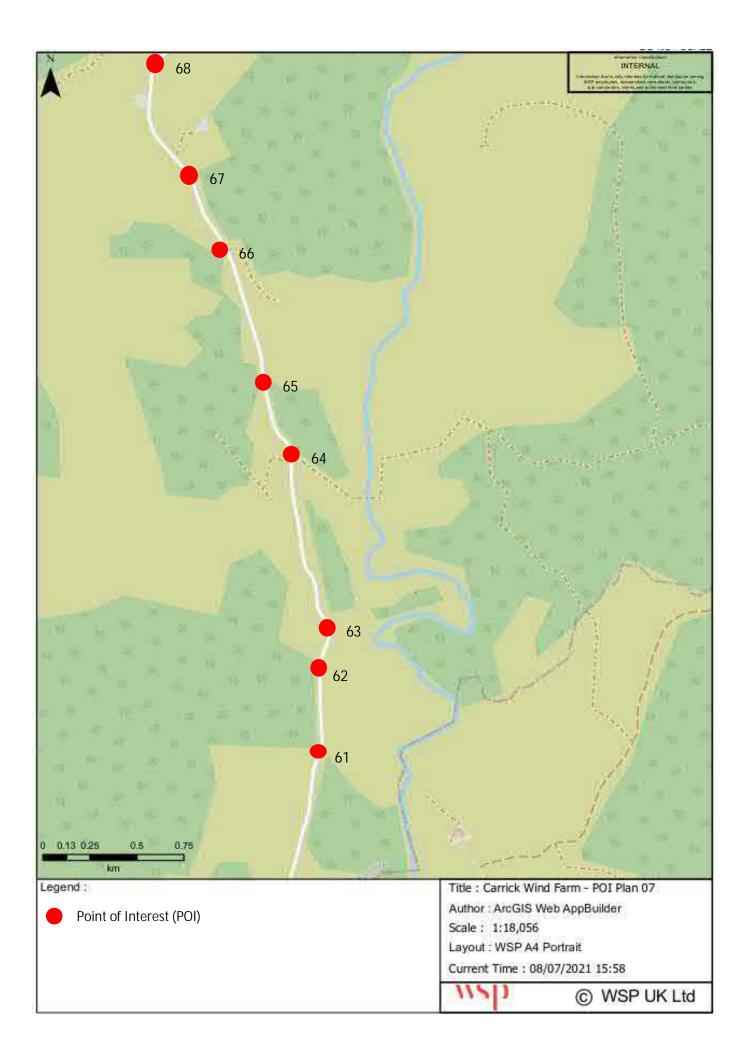


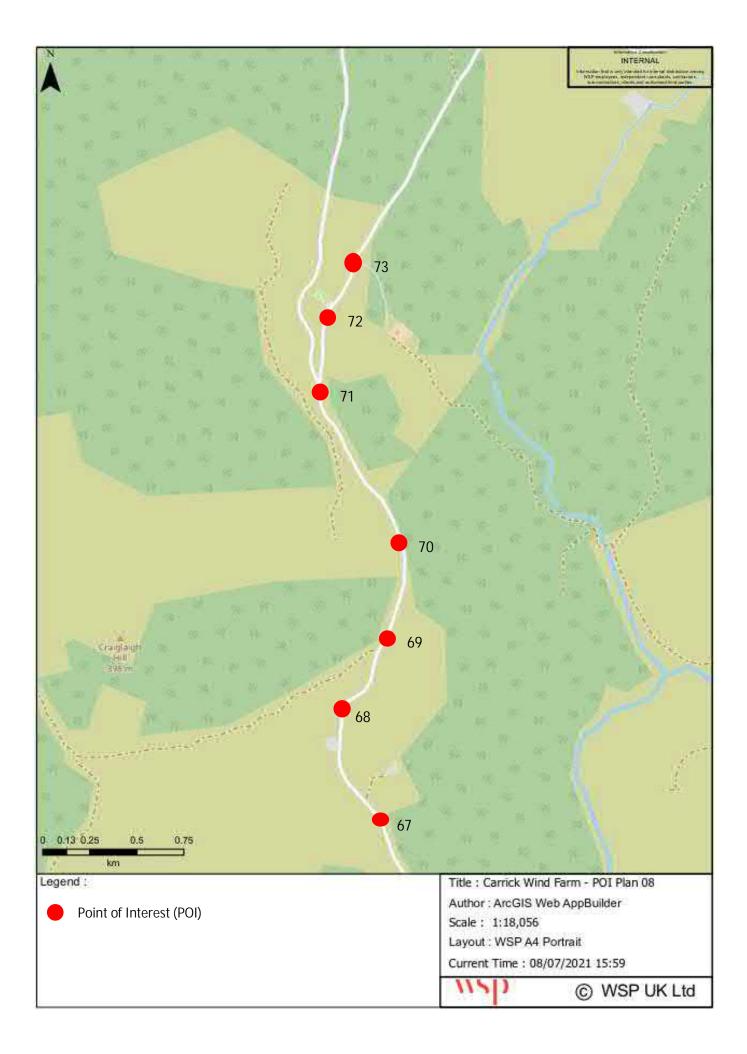


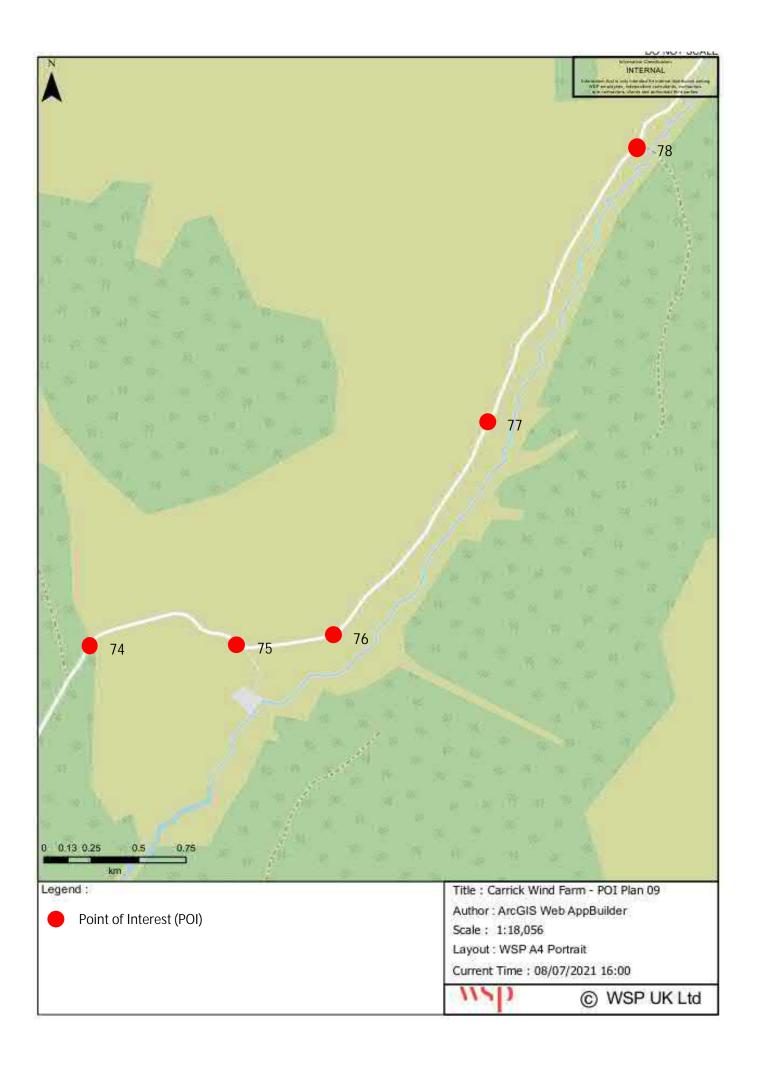


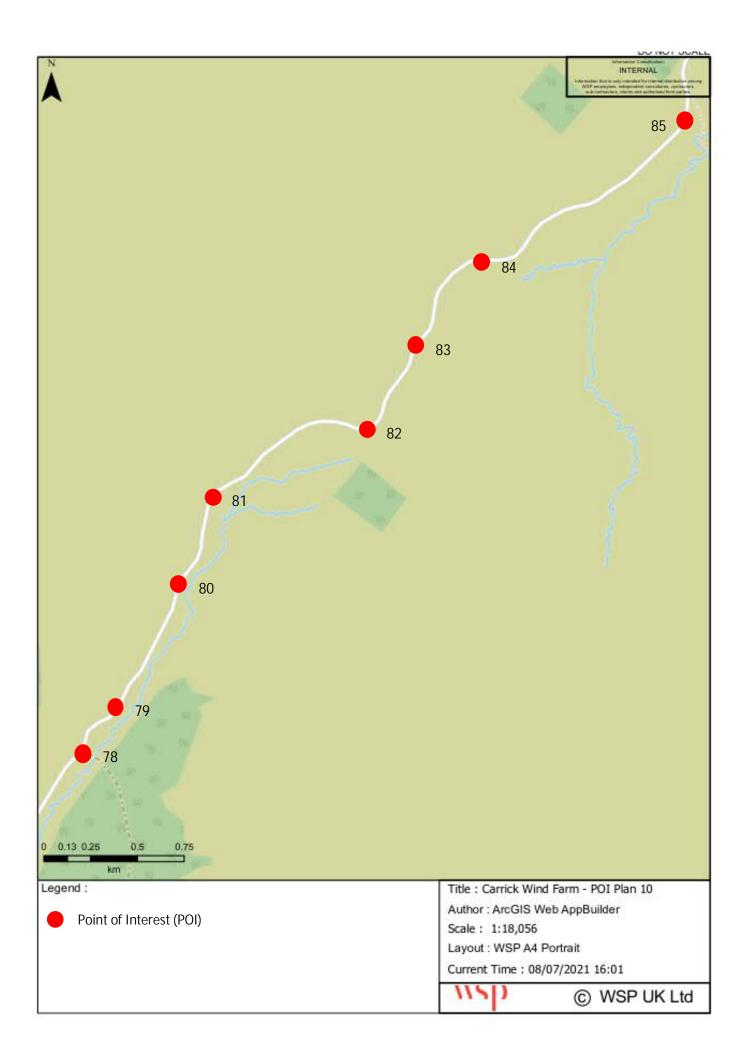


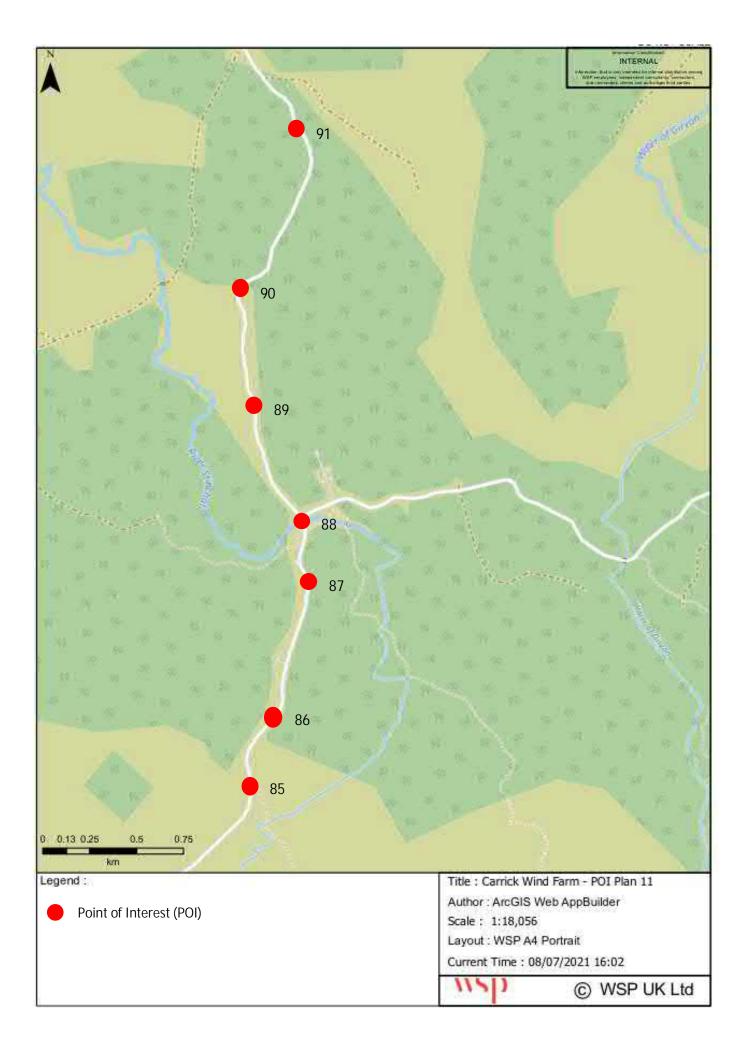


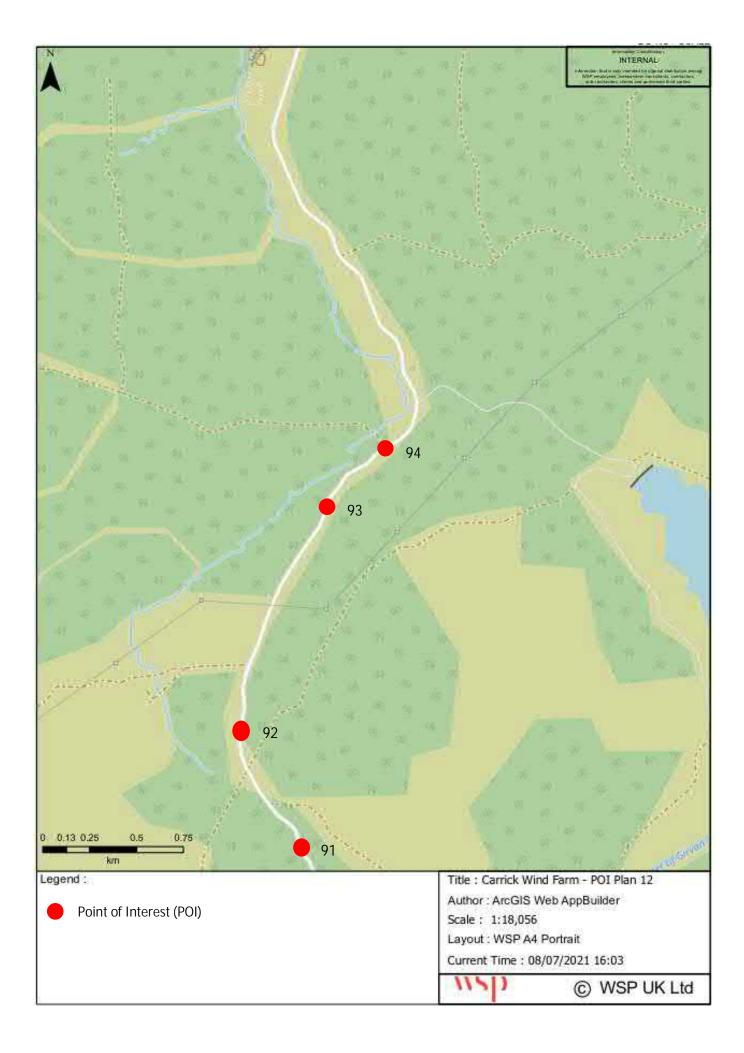












Appendix C

OFFSITE ACCESS APPRAISAL

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DI WYG DWG No. Location / Constraint	Image	Potential Works for Consideration	Embedded Mitigation / Further Survey Requirements	Potential Impacts	Likely Potential Effects
neral Works					
			Landscape and Visual - The design will need to show that it is carefully integrated into the existing topography, minimising any cut and fill. See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - The parts of the routes within forested areas are less sensitive and any widening works will only create a minor impact. Works in the more exposed uplands in the north have the potential to create significant landscape and visual impacts.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
General widening of	Hydrology, Hydrogeology, Geology and Soils - The adoption of the applicable good practice measures in the Outline Construction Environmental Management Plan (CEMP) would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would resu in no discernible improvement or deterioration of the existi environment.		
A N/A C46W whole route	N/A	to accomodate the works.	Ecology and Biodiversity -The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and Scottish Environmental Protection Agency (SEPA), would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would rest in no discernible improvement or deterioration of the existi environment.
		will be agreed with the council ahead of any works commencing.	Ornithology: N/A	Ornithology - This would result in negligible impacts on ornithological features.	Negligible – where the Proposed Development would rest in no discernible improvement or deterioration of the existi environment.
			Noise: Construction: Works to be undertaken in accordance with the principle of Best Practicable Means (BPM) as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Potential for direct, short term, temporary, negative negligible to minor noise and vibration impacts during construction works at nearby sensitive receptors.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
		Archaeology and Cultural Heritage: Demarcation of assets and potential works to avoid any direct impacts to the following assets: - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966).	Archaeology and Cultural Heritage - without mitigation there is the potential to have direct impacts on a number of assets including: - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966). Impacts from the potential works considered may result in a significant deterioration of the cultural heritage resource prior to mitigation.	Negligible – where the Proposed Development would resu in no discernible improvement or deterioration of the existi environment.	
			Forestry: N/A	Forestry - It is anticipated that works within highway boundary will have little or no impact on forestry. Subject to clarification of boundary extents.	Negligible – where the Proposed Development would resu in no discernible improvement or deterioration of the existi environment.
			Landscape and Visual: N/A	Landscape and Visual - Visual effect of re-grading likely to be within existing areas (not associated with widening) and won't be particularly noticeable.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing
			Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would res in no discernible improvement or deterioration of the exist environment.

7	VA N/J	/A	C46W whole route	N/A	Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects. Ornithology: N/A Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline. Ornithology - This would result in negligible impacts on ornithological features. Noise - Construction: Potential for direct, short term, temporary, negative negligible to minor noise and vibration impacts during construction works at nearby sensitive receptors.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
						Archaeology and Cultural Heritage: Demarcation of assets and potential works to avoid any direct impacts to the following assets. - Laigh Rowantree Bridge (IXX 3530 9063); - Water of Minnoch, Ree (IXX 3573 8794); - Rowantree, Tollhouse and Inn (IXX 3528 9040); - Suie Tollhouse (IXX 3572 8655); and - Suie Linn, Corn Drying Kiln (IXX 36165 85966).	Archaeology and Cultural Heritage - without mitigation there is the potential to have direct impacts on a number of assets including: - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966). Impacts from the potential works considered may result in a significant deterioration of the cultural heritage resource prior to mitigation.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
							Forestry - It is anticipated that works within highway boundary will have little or no impact on forestry. Subject to clarification of boundary extents.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
F						Landscape and Visual: N/A	Landscape and Visual - Visual effect of re-grading likely to be within existing areas (not associated with widening) and won't be particularly noticeable.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing
				N/A		Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
٦	j/A N/,	/A	C46W whole route		Potential localised carriageway re-grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at logifican of consistence of co	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Ornithology: N/A	Ornithology - This would result in negligible impacts on ornithological features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					embankment regrading		Noise - Construction: Potential for direct, short term, temporary, negative negligible to minor noise and vibration impacts during construction works at nearby sensitive receptors.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
						Archaeology and Cultural Heritage: Demarcation of assets and potential works to avoid any direct impacts to the following assets. - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966).	Archaeology and Cultural Heritage - without mitigation there is the potential to have direct impacts on a number of assets including: - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966). Impacts from the potential works considered may result in a significant deterioration of the cultural heritage resource prior to mitigation.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Forestry: N/A	Forestry - It is anticipated that works within highway boundary will have little or no impact on forestry. Subject to clarification of boundary extents.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

					Landscape and Visual: A tree survey should be undertaken by a qualified arboriculturist prior to	
					any works so that any particularly valuable trees are identified and the health and growth of the trees is not compromised. See recommended landscape and visual mitigation options (Appendix C.1).	Landscape and Visual - Anticipate temporary localised landscape and visual et that trees/plants will be allowed to regrow.
					Hydrology, Hydrogeology, Geology and Soils: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
					Ecology and Biodiversity: N/A	Ecology and Biodiversity - it is anticipated that the proposed works could resul impacts to the existing ecological baseline.
					Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ecological clerk of works (ECoW) checks for nesting birds (to avoid legal non- compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
A N	N/A	C46W whole route	N/A	vegetation and tree canopy. No removal of trees / hedges	Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Potential for direct, short term, temporary, negative neglinoise and vibration impacts during construction works at nearby sensitive rece
					Archaeology and Cultural Heritage: Demarcation of assets and potential works to avoid any direct impacts to the following assets. - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966).	Archaeology and Cultural Heritage - without mitigation there is the potential to impacts on a number of assets including: - Laigh Rowantree Bridge (NX 3530 9063); - Water of Minnoch, Ree (NX 3573 8794); - Rowantree, Tollhouse and Inn (NX 3528 9040); - Suie Tollhouse (NX 3572 8655); and - Suie Linn, Corn Drying Kiln (NX 36165 85966). Impacts from the potential works considered may result in a significant deterior cultural heritage resource prior to mitigation.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Point of Interest (POI) Locations	
				Tree and vegetation removal.	Landscape and Visual: A tree survey should be undertaken by a qualified arboriculturist prior to any works so that any particularly valuable trees are identified and the health and growth of the trees is not compromised. See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - due to extent of widening this may result in some mino of broadleaf/mixed woodland and potentially small sections of stone walls whic characteristic of this part of the route. However, it is considered it would be ver unlikely to create significant effects.
					Hydrology, Hydrogeology, Geology and Soils: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
6	SPAnge	· ·			removal.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.
				of stone wall.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences a nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on A data) and POI is ~120m. Potential for direct, short term, temporary, negative m impacts during construction works at nearby sensitive receptors.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.
					Hydrology, Hydrogeology, Geology and Soils: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
					Ecology and Biodiversity: N/A	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.
7	N/A	C46W Left bend north of Glentrool Campsite		Tree canopy to be cut back.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
6		SPA028	SPA028 C46W right turn adjacent to Glentrool Campsite	SPA028 C46W right turn adjacent to SPA028 C46W right turn adjacent to SPA028 C46W right turn adjacent to	^ V/A CHOV WHORE Fould V/A No removal of trees / heiging etc. required. SPA028 CHOV WHORE fould V/A Image: second seco	No. Definition Definit Definition Definition

ffects only and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
l as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
elated to ible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gible to minor ptors.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
have direct	
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ation of the	
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
r loss/cut back	
h are a y localised and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
l as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to ible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ddressBase inor noise	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
l as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
elated to ible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as	
					defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on A data) and POI is ~50m. Potential for direct, short term, temporary, negative minimpacts during construction works at nearby sensitive receptors.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.
					Hydrology, Hydrogeology, Geology and Soils: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
38 N/A					Ecology and Biodiversity: N/A	Ecology and Biodiversity - it is anticipated that the proposed works could resul impacts to the existing ecological baseline.
	N/A	C46W series of bends	Not a second second	Tree canopy to be cut back.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences of nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
		south of Glentrool Village			Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on A data) and POI is ~260m. Potential for direct, short term, temporary, negative m impacts during construction works at nearby sensitive receptors.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.
					Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect. Carriageway widening will be undertaken within 20m of the Black Burn, which has a High risk of surface water flood risk at this location.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
39	SPA029	C46W Glentrool Village		Vegetation / tree canopy to be cut back. Minor carriageway widening / load bearing surface. Potential removal of lighting column.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could resul impacts to the existing ecological baseline.
					Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences nesting birds, however following the application of embedded mitigation negligorithological features are anticipated.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on A data) and POI is ~30m. Potential for direct, short term, temporary, negative mot and vibration impacts during construction works at nearby sensitive receptors.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
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Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
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Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Propo in no discernible improveme environment.
						Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where would result in a small deteri environment.
						Hydrology, Hydrogeology, Geology and Soils: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Propo in no discernible improveme environment.
				19 (M) (M) (M)		Ecology and Biodiversity: N/A	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Propo in no discernible improveme environment.
40			C46W left bend directly		Tree canopy to be cut back.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Propo in no discernible improveme environment.
			north of Glentrool Village			Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on AddressBase data) and POI is ~90m. Potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors.	Negligible – where the Propo in no discernible improveme environment.
						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Propo in no discernible improveme environment.
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Propo in no discernible improveme environment.
			C46W left bend 400m north of Glentrool Village	om north Om	Potential general carriageway widening in verge areas. Removal of telegraph pole and stay cables. Potential removal / lowering of stone wall.	Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - potential very localised impacts on character and visual amenity of local residents through the road widening and loss of stone wall, plus tree canopy to be cut back.	Minor adverse effect – where would result in a small deteri environment.
4	1 5	SPA030				Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change. Carriageway widening will be undertaken within 20m of the Black Burn, which has a High risk of surface water flood risk at this location.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Propr in no discernible improveme environment.
						Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Propo in no discernible improveme environment.
						Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Propo in no discernible improveme environment.
						Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on AddressBase data) and POI is ~25m. Potential for direct, short term, temporary, negative minor noise and vibration impacts during construction works at nearby sensitive receptors.	Minor adverse effect – where would result in a small deteri environment.

ey. Tree removal may be required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
works largely within existing road corridor and ry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
- No adverse impacts anticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t the proposed works could result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
otential to result in legal offences related to on of embedded mitigation negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
est sensitive receptor (based on AddressBase nort term, temporary, negative minor noise sensitive receptors.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
on is anticipated to have no or negligible benefit es.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ey. Tree removal may be required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ed impacts on character and visual amenity of I loss of stone wall, plus tree canopy to be cut	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
- No adverse impacts anticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t the proposed works could result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
otential to result in legal offences related to on of embedded mitigation negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
est sensitive receptor (based on AddressBase nort term, temporary, negative minor noise and tt nearby sensitive receptors.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

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						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Pr in no discernible improve environment.
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Pr in no discernible improve environment.
						Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – wh would result in a small de environment.
						Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Pr in no discernible improve environment.
4	2 \$	SPA031	C46W bends 2km north of Glentrool	The second s	Vegetation / tree canopy to be cut back.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Pr in no discernible improve environment.
					widening in verge areas.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Pr in no discernible improve environment.
						Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Pr in no discernible improve environment.
						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Pr in no discernible improve environment.
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Pr in no discernible improve environment.
						Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – wł would result in a small de environment.
					Vegetation / tree canopy to be cut back and removed at locations. Minor carriageway widening / load bearing surface at bends. General carriageway	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening/new carriageway section, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Pr in no discernible improve environment.
4	43 SI	SPA032	C46W Series of bends 2.7km north of Glentrool	Series of bends north of Glentrool Potential carriag grading. Potential verge embankment re- Potential physic works to existing locations of carr	widening in verge areas. Potential carriageway re-	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Pr in no discernible improve environment.
				A - The second	embankment regrading. Removal of road sign.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Pr in no discernible improve environment.
						Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Pr in no discernible improve environment.
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ticipated to have no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e removal may be required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
rgely within existing road corridor and ts.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
verse impacts anticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
oposed works could result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
o result in legal offences related to bedded mitigation negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
om location. Is.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ticipated to have no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e removal may be required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
rgely within existing road corridor and ts.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
verse impacts anticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
oposed works could result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
o result in legal offences related to abedded mitigation negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
om location. Is.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negorial or negorial to have no or neg	
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required extent of works required.	
				Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road of tree works would be within commercial forestry extents.	
44 SPA033	C46W right bend 3.2km north of Glentrool	nt bend 3.2km	Vegetation / tree canopy to be cut back and removed at locations. Minor carriageway widening / load bearing surface at bends. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Assessment of bridge required to confirm suitability.	Vegetation / tree canopy to be cut back and removed at locations. Minor carriageway widening / load bearing surface at bends. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge /	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result o the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect.	the proposed works.
					Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.	
				Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.	
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.	
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required extent of works required.	
				Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.	
		B		Hydrology, Hydrogeology, Geology and Soils: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.	
		the second se		Ecology and Biodiversity: N/A	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.	
45 N/A	C46W 3.4km north of Glentrool		Vegetation / tree canopy to be cut back.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.	
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negorial or negative impact on cultural heritage features.	

gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
t as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to jible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result
	in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
l as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to jible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - potential impacts due to potential widening and re-grading works resulting in removal of forestry. This would potentially slightly open up this part of the route which already has an open aspect to the east so is quite visible from the wider landscape, albeit within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
46	SPA034	C46W bends 3.6km north of Glentrool	Vegetation / tree canopy to be cut back and removed at locations. Minor carriageway widening / load bearing surface at bends. General carriageway widening in verge areas. Potential carriageway re- grading.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening/new carriageway section, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			Potential verge / embankment regrading. Potential physical upgrade	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. t Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts or ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
				Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
47	N/A	C46W bends 4km north of Glentrool	Vegetation / tree canopy to be cut back. General carriageway widening in verge areas.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts or ornithological features are anticipated.	Negligible – where the Proposed Development would result n no discernible improvement or deterioration of the existing environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the P in no discernible improve environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the P in no discernible improve environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – w would result in a small d environment.
				Vegetation / tree canopy to be cut back and removed at locations. Potential general carriageway widening in verge areas.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the P in no discernible improve environment.
48	SPA035	C46W bends 4.3km north of Glentrool, approach to junction towards Palgowan		Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the F in no discernible improv environment.
			Endite in	Removal of telegraph pole and stay cables.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the F in no discernible improve environment.
			and the second sec		Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the F in no discernible improve environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the F in no discernible improve environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the F in no discernible improve environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – w would result in a small d environment.
				Vegetation / tree canopy to be cut back and removed at locations.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the F in no discernible improv environment.
49	SPA036	C46W bends 4.4km north of Glentrool, approaching Butter Burn	W bends 4.4km north Jentrool, approaching ter Burn Potential carriageway re- grading. Potential verge / embankment regrading. Any bespoke n measures relations	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the F in no discernible improv environment.	
				works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the F in no discernible improv environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the F in no discernible improv environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the F in no discernible improv environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the F in no discernible improve environment.

no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ing road corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
nticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
uld result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ffences related to on negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ing road corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
nticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
uld result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
offences related to on negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result
e required dependent on	in no discernible improvement or deterioration of the existing environment.

					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.
				Vegetation / tree canopy to be cut back and removed at locations. Potential general	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
	50		C46W bends 4.9km north of Glentrool, approaching Butter Burn	carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading /	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could resul impacts to the existing ecological baseline.
				embankment regrading. Removal of road sign.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences nesting birds, however following the application of embedded mitigation neglic ornithological features are anticipated.
					Noise Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
_					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.
				Vegetation / tree canopy to be cut back and removed at locations. Potential general	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
ţ	51	SPA038	C46W at Butter Burn	carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could resul impacts to the existing ecological baseline.
				Potential physical upgrade works to existing drainage at locations of carriageway	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences nesting birds, however following the application of embedded mitigation neglic ornithological features are anticipated.
				widening / regrading / embankment regrading. Assessment of bridge required to confirm suitability.	Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.

corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
d as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to pible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
d as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to gible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

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No No<					Forestry: N/A		in no discernible improvement or deterioration of the existing
No. No. <td></td> <td></td> <td></td> <td rowspan="4"> Vegetation / tree canopy to be cut back and removed at locations. Potential general carriageway widening in verge areas. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. </td> <td>Landscape and Visual: N/A</td> <td></td> <td>would result in a small deterioration of the existing</td>				 Vegetation / tree canopy to be cut back and removed at locations. Potential general carriageway widening in verge areas. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. 	Landscape and Visual: N/A		would result in a small deterioration of the existing
2 3/2 8/2					measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination	the proposed works.	in no discernible improvement or deterioration of the existing
No. No. <td>Ę</td> <td></td> <td rowspan="2"></td> <td>allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice</td> <td>Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible</td> <td>in no discernible improvement or deterioration of the existing</td>	Ę				allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible	in no discernible improvement or deterioration of the existing
Image: Note that is a second or control of the second of the se						nesting birds, however following the application of embedded mitigation negligible impacts on	in no discernible improvement or deterioration of the existing
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Name Name Name Calcispace and Visual: NAA Calcispace and Visual					Forestry: N/A		in no discernible improvement or deterioration of the existing
53 No.	-				Landscape and Visual: N/A		would result in a small deterioration of the existing
53 8AW CAW, 1.7km north of Butter Burn Negligible - where the Proposed Development would result in no discomptile pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in bird breading season (March-August), or underate pre-works ECoW checks for nesting birds, calearance in birds, calearance in birds (to avoid legal non-compliance). Noise - Sensitive receptors more than 300m away from location. Negligible - where the Proposed Development would result in no discomplie improvement or deterioration of the existing environment. No Archaeology and Cultural Heritage: N/A Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benee or negligible improvement or deterioration of the existing environment. Negligible - where the Proposed Development would result in no discemplie improvement o					Hydrology, Hydrogeology, Geology and Soils: N/A		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing
53 SPA040 C4W, I. XM horh of a Vegetation beer dealog with the catalog with a space and y with a small deterioration of the existing 53 SPA040 C4W, I. XM horh of a Butter Bum Wegetation beer dealog with a space and y with a small deterioration of the existing In no discernible improvement or deterioration of the existing 63 SPA040 Euter Bum Butter Bum In no discernible improvement or deterioration of the existing provinces are antipological leatances are					Ecology and Biodiversity: N/A		in no discernible improvement or deterioration of the existing
Image: series of the series	Ę					nesting birds, however following the application of embedded mitigation negligible impacts on	in no discernible improvement or deterioration of the existing
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Landscape and Visual: N/A Lengescape and visual: N/A would result in a small deterioration of the existing					Forestry: N/A		in no discernible improvement or deterioration of the existing
environment.					Landscape and Visual: N/A		

				Vegetation / tree canopy to be cut back and removed at locations. Potential general carriageway widening in verge areas.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Prop in no discernible improveme environment.
5	4 N/A	C46W at Black Burn		Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Prop in no discernible improveme environment.
			and the second	Assessment of bridge required to confirm suitability.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Prop in no discernible improveme environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Prop in no discernible improveme environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Prop in no discernible improveme environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Prop in no discernible improveme environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where would result in a small deter environment.
				Vegetation / tree canopy to be cut back and removed at locations.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Prop in no discernible improveme environment.
5	5 SPA041	C46W 700m north of Black Burn		Potential general carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Prop in no discernible improveme environment.
				works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Removal of road sign.	Ornithology: Avoid vegetation clearance and major works in bird breeding season (March- August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non- compliance) including nesting osprey.	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the legislative compliance of works (such as postponement/prohibition of works with a nest exclusion zone), negligible impacts on ornithological features are anticipated.	Negligible – where the Prop in no discernible improveme environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Prop in no discernible improveme environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Prop in no discernible improveme environment.

nticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ould result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ting road corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
nticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ould result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
offences related to elating to a Schedule 1 edded mitigation to obibition of works with a e anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
no or negligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing
	environment.

				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
			Vegetation / tree canopy to be cut back and removed at locations. Potential general carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
S	6 SPA042 C46W 1km north of Black Burn			Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Ornithology: Avoid vegetation clearance and major works in bird breeding season (March- August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non- compliance) including nesting osprey.	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the legislative compliance of works (such as postponement/prohibition of works with a nest exclusion zone), negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 800m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
			Potential general carríageway widening in	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
57	7 N/A C46W, priority junction 1.3km north of Black Burn	Potentia grading Potentia embank Potentia embank Potentia works to location widenin	verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			widening / regrading / embankment regrading.	Ornithology: Avoid vegetation clearance and major works in bird breeding season (March- August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non- compliance) including nesting osprey.	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the legislative compliance of works (such as postponement/prohibition of works with a nest exclusion zone), negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 700m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
				General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
58	N/A	C46W, 1.7km north of Black Burn Grid Ref 235673 586624			Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Ornithology: Avoid vegetation clearance and major works in bird breeding season (March- August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non- compliance) including nesting osprey.	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the legislative compliance of works (such as postponement/prohibition of works with a nest exclusion zone), negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 600m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
				General carriageway	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
59	N/A	C46W, approaching priority junction 1.9km north of black burn		grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Ornithology: Avoid vegetation clearance and major works in bird breeding season (March- August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non- compliance) including nesting osprey.	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds and major ground works could result in legal offences relating to a Schedule 1 breeding species (osprey). However, following the application of embedded mitigation to inform the legislative compliance of works (such as postponement/prohibition of works with a nest exclusion zone), negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 600m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing
				Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge /	Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
60	SPA043	C46W, bends 2.1km north of Black Burn			Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Potential impact on existing drainage.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 500m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
					Hydrology, Hydrogeology, Geology and Soils: The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
61	SPA044	C46W, bends 2.3km north of Black Burn		Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Removal of road sign.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors are ~490m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.	
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

62	N/A	C46W, Priority junction 2.4km north of Black Burn		General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result
			Carlot and the second		Ornithology: N/A	nesting birds, however following the application of embedded mitigation negligible impacts or ornithological features are anticipated.	
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors are ~580m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
				Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential carriageway re-	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
63	SPA045	C46W, bends 2.5km north of Black Burn		grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Removal of road sign.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				removal or road sign.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts or ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 700m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					IFORESTLY: IN/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

64	SPA046	C46W, staggered crossroad junction 2.6km north of Black Burn				Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing	
				embankment regrading. Potential impact on existing water course due to potential works. Potential removal of telegraph pole and stay cables.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. Noise - Distance between closest sensitive receptor (based on Address Base data) and POI is -600m. Construction: Potential for neutral construction impacts. Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in Negligible – where the Proposed Development would result	
	-				Landscane and Visual: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required. Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	in no discernible improvement or deterioration of the existing environment. Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing	
65				Vegetation / tree canopy to be cut back.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.	
	N/A	C46W, crossroads junction 3.2km north of Black Burn		General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading.	widening in verge areas. Potential carriageway re- grading. Potential verge /	Biodiversity and Conservation: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.
					Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.	
						Noise - Sensitive receptors more than 600m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.	
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.	
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.	

					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
66				Vegetation / tree canopy to be cut back. General carriageway widening in verge areas. Potential carriageway re-	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	N/A	C46W, crossroads junction 3.5km north of Black Burn			Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				widening / regrading / embankment regrading.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing
					pre-works ECoW checks for nesting birds (to avoid legal non-compliance). Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	ornithological features are anticipated. Noise - Sensitive receptors are ~400m away from location. Construction: Potential for neutral construction impacts.	environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Vegetation / tree canopy to be cut back. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading.	Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
					The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
67	N/A	C46W, crossroads junction 3.7km north of Black Burn			widening in verge areas. Potential carriageway re- grading. Potential verge /	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.
				Potential physical upgrade works to existing drainage a locations of carriageway widening / regrading /	^t Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				embankment regrading.	Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on Address Base data) and POI is ~165m. Potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

68 SPA047	C46W, at Craigenrae	Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Potential relocation of telegraph pole and stay cables.	 would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the new section of carriageway/carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The good practice measures would also reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect. Ecology and Biodiversity. The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures effects. Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance). Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA). Forestry: N/A Landscape and Visual: N/A 	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works. Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline. Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. Noise - Construction: Distance between closest sensitive receptor (based on Address Base data) and POI is –115m. Potential for direct, short term, temporary, negative minor noise and vibration impacts during construction works at nearby sensitive receptors. Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features. Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required. Landscape and Visual - Minor effects due to works largely within existing road corridor and	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
69 N/A	C46W, at Craigenrae	Vegetation / tree canopy to be cut back. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	 Landscape and visua: N/A The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures recommended by CIRIA and SEPA, would reduce the potential adverse effects. Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance). Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA). 	tree works would be within commercial forestry extents. Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			Archaeology and Cultural Heritage: N/A Forestry: N/A	or negative impact on cultural heritage features. Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corr tree works would be within commercial forestry extents.
				Vegetation / tree canopy to	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as the proposed works.
70	0	N/A	C46W, 850m north of Craigenrae	be cut back. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in t impacts to the existing ecological baseline.
				Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	t Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences relate nesting birds, however following the application of embedded mitigation negligible ornithological features are anticipated.
				yy-	Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 600m away from location. Construction: Potential for neutral construction impacts.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligi or negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required de extent of works required.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corr tree works would be within commercial forestry extents.
				Vegetation / tree canopy to be cut back.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as the proposed works.
7	1	SPA048	Unclassified Road, 1.2km north of Craigenrae	General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in N impacts to the existing ecological baseline.
				widening / regrading / embankment regrading.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences relat nesting birds, however following the application of embedded mitigation negligible ornithological features are anticipated.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on Addre data) and POI is ~275m. Potential for direct, short term, temporary, negative minor impacts during construction works at nearby sensitive receptors.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligi or negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required de extent of works required.
					Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1), if implemented these would likely reduce effects.	Landscape and Visual - potential localised impact from widening and tree loss, due sensitivity of visitor destination (Bell's Memorial), stone bridge and open character of the route.
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corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
elated to ble impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
elated to ble impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ddress Base nor noise	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	in no discernible improvement or deterioration of the existing

			Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change.	Hydrology, Hydrogeology, Geology and Solis - No adverse impacts anticipated as a result of the proposed works	Negligible – where the f in no discernible improv environment.
72	SPA049	Unclassified Road, at Bell Memorial Car Park	Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Relocation of road sign. Assessment of bridge required to confirm suitability.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline	Negligible – where the l in no discernible improv environment.
				Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	nesting birds, however following the application of embedded mitigation negligible impacts on	Negligible – where the F in no discernible improv environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on Address Base data) and POI is ~230m. Potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors.	Negligible – where the f in no discernible improv environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features	Negligible – where the F in no discernible improv environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the F in no discernible improv environment.
				Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – v would result in a small o environment.
				The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the f in no discernible improv environment.
73	N/A	Unclassified Road, priority junction 150m north of Bell Memorial Car Park	Vegetation / tree canopy to be cut back. General carriageway widening in verge areas. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline	Negligible – where the f in no discernible improv environment.
			locations of carriageway widening / regrading / embankment regrading.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	nesting birds, however following the application of embedded mitigation negligible impacts on	Negligible – where the l in no discernible improv environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on AddressBase data) and POI is ~260m. Potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors.	Negligible – where the I in no discernible improv environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the l in no discernible improvenvironment.

dverse impacts anticipated as a result of in no discernible improvement or deterioration of the exienvironment.	
roposed works could result in Negligible – Where the Proposed Development would re in no discernible improvement or deterioration of the exi environment.	
to result in legal offences related to Negligible - where the Proposed Development would re	
mbedded mitigation negligible impacts on in no discernible improvement or deterioration of the exi environment.	isting
sitive receptor (based on Address Base rm, temporary, negative minor noise re receptors.	
nticipated to have no or negligible benefit Negligible – where the Proposed Development would re in no discernible improvement or deterioration of the exi- environment.	
ee removal may be required dependent on Negligible – where the Proposed Development would re in no discernible improvement or deterioration of the exi environment.	
argely within existing road corridor and nts. Minor adverse effect – where the Proposed Developme would result in a small deterioration of the existing environment.	nt
dverse impacts anticipated as a result of in no discernible improvement or deterioration of the exervironment.	
roposed works could result in Negligible in no discernible improvement or deterioration of the exi environment.	
to result in legal offences related to Negligible – where the Proposed Development would re in no discernible improvement or deterioration of the exitension environment.	
sitive receptor (based on AddressBase rm, temporary, negative minor noise /e receptors.	

						Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
		Unclassified Road, 900m		Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Potential carriageway re- grading. Relocation of road sign. Assessment of bridge required to confirm suitability. Removal of bridge guardrail.		Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
74	SPA050	north of Bell Memorial Car Park				Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Ornithology: N/A	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Noise - Sensitive receptors more than 500m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeolody and Cultural Heritade: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					It is planned to retain this area as open moorland or it torestry is planned will help determine	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
					The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of	Negligible – where the Proposed Development would result
				Vegetation / tree canopy to be cut back and removed at locations.		the proposed works.	in no discernible improvement or deterioration of the existing environment.

7	75 (SPA051	Unclassified Road, 1.4km northeast of Bell Memorial Car Park		Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Removal of road signs.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.
						Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
				Maria M		Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on A data) and POI is ~175m. Potential for direct, short term, temporary, negative m impacts during construction works at nearby sensitive receptors. Operation: Potential for direct, long term, permanent, negative minor noise imp operation at nearby sensitive receptors.
						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
						Landscape and Visual: See recommended Landscape and Visual mitigation options (Appendix C.1), if implemented these would likely reduce effects. In addition, an understanding of whether it is planned to retain this area as open moorland or if forestry is planned will help determine potential effects further – in terms of landscape character and screening.	Landscape and Visual - the potential widening and re-grading works would be creating a localised change to the character of this open and remote moorland route.
76					Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential carriageway re- grading. Potential verge / embankment regrading.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
	76 \$	SPA052	Unclassified Road, 1.7km northeast of Bell Memorial Car Park			Biodiversity and Conservation: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.
						Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
					widening / regrading / embankment regrading. Relocation of road sign.	Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on A data) and POI is ~320m. Potential for direct, short term, temporary, negative m impacts during construction works at nearby sensitive receptors.
						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negoring or negative impact on cultural heritage features.
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required extent of works required.
						Landscape and Visual: See recommended Landscape and Visual mitigation options (Appendix C.1), if implemented these would likely reduce effects. In addition, an understanding of whether it is planned to retain this area as open moorland or if forestry is planned will help determine potential effects further – in terms of landscape character and screening.	Landscape and Visual - the potential widening and re-grading works would be creating a localised change to the character of this open and remote moorland route.
						The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.

t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to gible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
AddressBase hinor noise	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
oacts during	
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ed dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e discernible, section of the	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
d as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to gible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
AddressBase ninor noise	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ed dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e discernible, section of the	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
d as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

;	77	N/A	Unclassified Road, bends 2.2km northeast of Bell Memorial Car Park	100 mg	General carriageway widening in verge areas. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.	
						Ornithology: N/A Noise: Construction: Works to be undertaken in accordance with the principle of BPM as	Ornithology - This would result in negligible impacts on ornithological features.	
						defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	
						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negative impact on cultural heritage features.	
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required extent of works required.	
						Landscape and Visual: See recommended Landscape and Visual mitigation options (Appendix C.1), if implemented these would likely reduce effects. In addition, an understanding of whether it is planned to retain this area as open moorland or if forestry is planned will help determine potential effects further – in terms of landscape character and screening.	Landscape and Visual - the potential widening and re-grading works would be creating a localised change to the character of this open and remote moorland route.	
78			Priority Junction 300m south of proposed site access 1	Priority Junction 300m south of proposed site			The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
	78	N/A			widening in verge areas. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.	
						Ornithology: N/A	Ornithology - This would result in negligible impacts on ornithological features.	
						Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	
						Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or neg or negative impact on cultural heritage features.	
						Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required extent of works required.	
						Landscape and Visual: See recommended Landscape and Visual mitigation options (Appendix C.1), if implemented these would likely reduce effects. In addition, an understanding of whether it is planned to retain this area as open moorland or if forestry is planned will help determine potential effects further – in terms of landscape character and screening.	Landscape and Visual - the potential widening and re-grading works would be creating a localised change to the character of this open and remote moorland route.	

lt in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result
	in no discernible improvement or deterioration of the existing environment.
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ed dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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d as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
lt in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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egligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ed dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e discernible, section of the	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

79a	N/A	Series of Bends East of Aldric Hill	Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential verge / embankment regrading. Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the new section of carriageway/carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The good practice measures would also reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect. Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects. Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance). Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA). Archaeology and Cultural Heritage: N/A	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment. Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: See recommended Landscape and Visual mitigation options (Appendix C.1), if implemented these would likely reduce effects. In addition, an understanding of whether it is planned to retain this area as open moorland or if forestry is planned will help determine potential effects further – in terms of landscape character and screening.	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
			Vegetation / tree canopy to be cut back and removed at	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
79B	SPA053	Series of Bends East of Aldric Hill		Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			embankment regrading. Removal of road sign.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1).	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

80 SPA054 Series of Bends East of Editick Hill 2 Series of Bends East of Editick Hill 2 Eventsing the company regrading of an ecological walkover, together with standard measures are sing in the desting way widening, and a series to the existing comment. In o discernibile environment. 80 SPA054 Series of Bends East of Editick Hill 2 Eventsing the company regrading and a series to the existing comment. In eadoptic destines. In o discernibile environment. In o discernibile environment. 80 SPA054 Series of Bends East of Editick Hill 2 Eventsing the company regrading environment. Eventsing the company regrading environment. In o discernibile environment. In o discernibile environment. 80 Series of Bends East of Editick Hill 2 Series of Bends East of Editick Hill 2 Eventsing the company regrading environment. Eventsing the company regrading environment. Eventsing the company regrading environment. In o discernibile environment. 80 Series of Bends East of Editick Hill 2 Eventsing the company regrading environment. Eventsing the company regrading environment.<	where the Proposed Development would result nible improvement or deterioration of the existing
80 SPA054 Series of Bends East of Eldrick Hill 2 Potential verg / embankment regrading. Potential carriageway regrading. Potential carriageway regrading. Potential carriageway regrading. 	ible improvement or deterioration of the existing
embankment regrading. Road sign to be removed. Noise: Construction: Works to be undertaken in accordance with the principle of BPM as Noise - Sensitive receptors more than 1000m away from location.	
Noise: Construction: Works to be undertaken in accordance with the principle of BPM as Noise - Sensitive receptors more than 1000m away from location.	
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Archaeology and Cultural Heritage - Lois option is anticipated to have no or negligible benetit	where the Proposed Development would result lible improvement or deterioration of the existing .
Forestry - Impact dependent on detailed subjey - I ree removal may be required dependent on L 👘 🔭	where the Proposed Development would result ible improvement or deterioration of the existing .
I and some and Visual. Cas recommanded land some and visual mitigation entions (Annandix Editorial and regional and regiona and regional and regiona	se effect – where the Proposed Development in a small deterioration of the existing
	where the Proposed Development would result ible improvement or deterioration of the existing
Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	where the Proposed Development would result ible improvement or deterioration of the existing
embankment regrading. Road sign to be removed. Road sign to be removed.	
	where the Proposed Development would result lible improvement or deterioration of the existing .
	where the Proposed Development would result ible improvement or deterioration of the existing .
Forestry: N/A Fo	
	se effect – where the Proposed Development in a small deterioration of the existing

				Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential verge / embankment regrading.	The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the new section of carriageway/carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The good practice measures would also reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
82	SPA056	Series of Bends Northeast of Eldrick Hill 2	P State	Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. 3x road signs to be removed.		impacts to the existing ecological baseline	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				3x posts to be removed.		Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						CONSTRUCTION, FOTEILIAI TOI NEULIAI CONSTRUCTION IMPACTS.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
						Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					C.1)	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
				Vegetation / tree canopy to be cut back and removed at locations. General carriageway		the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
83	SPA057	Series of Bends East of Cairnadloch		widening in verge areas. Potential verge / embankment regrading. Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				widening / regrading / embankment regrading. 2x posts to be removed.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	nesting birds, however following the application of embedded mitigation negligible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
							Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Chitural Heritage. N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					FORESTLY: N/A	extent of works required	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					(L.1)	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

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			Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
84	SPA058	Series of Bends East of Cairnadloch 2	Potential verge / embankment regrading. Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading /	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			embankment regrading. 2x road signs to be	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			removed.	Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				See recommended landscape and visual mitigation options (Appendix C.1).	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
			Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
85	SPA059	Series of Bends Crawberry Rock Cairns	Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Biodiversity and Conservation: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
			2x road signs to be removed. 2x posts to be removed.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
				Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1).	Landscape and Visual - the potential widening and re-grading works would be discernible, creating a localised change to the character of this open and remote moorland section of the route.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
			Vegetation / tree canopy to be cut back and removed at locations.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

8	SPA060	Series of Bends Crawberry Rock Cairns 2		General carriageway widening in verge areas. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.
				1x road signs to be removed.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or ne or negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Landscape and Visual: See recommended landscape and visual mitigation options (Appendix C.1).	Landscape and Visual - the potential widening and re-grading works would be creating a localised change to the character of this open and remote moorland route.
				Vegetation / tree canopy to be cut back and removed at locations. Creation of over-run area on bend.	The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the new carriageway section/carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. The good practice measures would also reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The design principles and adoption of the applicable good practice measures summarised in the Outline CEMP would reduce the soils losses and compaction of soil effects. Site monitoring would identify any areas where soil effects are noted and enable a fast response to minimise effect.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated the proposed works.
8	7 SPA061	Series of Bends Approaching Stinchar Bridge		General carriageway widening in verge areas. Potential verge / embankment regrading. Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading /	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result impacts to the existing ecological baseline.
				embankment regrading / enviolent regrading. 1x road signs to be removed.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences r nesting birds, however following the application of embedded mitigation neglig ornithological features are anticipated.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negor negative impact on cultural heritage features.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be require extent of works required.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road tree works would be within commercial forestry extents.
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t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
related to jible impacts on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
gligible benefit	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
e discernible, section of the	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
d as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
t in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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d dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.

		Series of Bends Stinchar		Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential verge / embankment regrading. Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	High risk of river flooding is noted at this location within the River Stinchar. The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where in no discernible im environment.
88	SPA062	Bridge		Assessment of bridge required to confirm suitability. 2x road signs to be removed. 1x post to be removed. Depending on transport method and works required to the carriageway on		Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where in no discernible in environment. Negligible – where
				approach to and exit from the bridge, their may be a requirement to temporarily alter the parapet walls to allow loads to negotiate the	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance). Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated. Noise - Sensitive receptors more than 1000m away from location.	
				bridge.		Construction: Potential for neutral construction impacts.	environment.
			and the second		Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - potential for a minor adverse impact on the existing Stinchar Bridge.	Negligible – where in no discernible im environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where in no discernible im environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect would result in a sm environment.
				Vegetation / tree canopy to be cut back and removed at locations.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where in no discernible im environment.
89	SPA063	Series of Bends North of Stinchar Bridge		General carriageway widening in verge areas. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading /	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where in no discernible in environment.
				embankment regrading.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where in no discernible im environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where in no discernible im environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where in no discernible im environment.

se impacts anticipated as a result of	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
sed works could result in Negligible	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
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					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the F in no discernible improv environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – v would result in a small o environment.
				Vegetation / tree canopy to be cut back and removed at locations.	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.	Hydrology, Hydrogeology, Geology and Soils - No adverse impacts anticipated as a result of the proposed works.	Negligible – where the l in no discernible improv environment.
90) SPAC	Double Bend West of Loch Skelloch		General carriageway widening in verge areas. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage al locations of carriageway widening / regrading / embankment regrading.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the I in no discernible improv environment.
				1x road signs to be removed.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts or ornithological features are anticipated.	Negligible – where the I in no discernible improv environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Sensitive receptors more than 1000m away from location. Construction: Potential for neutral construction impacts.	Negligible – where the I in no discernible improv environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the F in no discernible improv environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent or extent of works required.	Negligible – where the F in no discernible improv environment.
					Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – v would result in a small o environment.
				Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential verge / embankment regrading. Potential carriageway re-	The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. A The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures. Any bridge upgrades would be designed and constructed following good practice techniques and would be of sufficient capacity to receive storm flows with an allowance for increased flows due to climate change.	the proposed works.	Negligible – where the F in no discernible improv environment.
91	SPAC	Series of Bends Tairlaw Burn Dam		grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading. Assessment of bridge required to confirm suitability.	Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the F in no discernible improv environment.
			and the second	2x road signs to be removed.	Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts or ornithological features are anticipated.	Negligible – where the I in no discernible improvenvironment.
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32 SPA066 Series of Bends West of Linshalloch widening in verge areas. Potential verge / embankment regrading. Potential organization of any beblative to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation measures a to be designed to reduce the potential adverse effects. Any bespoke mitigation dearance in bird breading season (March-Auguet), or undetake in estimation adverse effects. Noise: Construction: Works to be undetaken in accordance with the principle of BPM as defined in section 72 of the Control of Pollution never adverse and incipated to reduce the potential for neutral construction impacts. Archaeology and Cultural Heritage: N/A Archaeology and Cultural Heritage for undetaken to never. Archaeology and Cultural Heritage foreatur	in no discernible imp
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93 SPA067 Series of Bends Cairnwhapple Stone Series of Bends General carriageway widening in verge areas. General carriageway widening in verge areas. Potential verge / embankment regrading. Potential verge / embankment regrading. Potential verge / embankment regrading. Potential physical upgrade works to existing drainage at locations of carriageway Potential physical upgrade works to existing drainage at locations of carriageway Potential physical upgrade measures relating to pollution prevention, biosecurity and other environmental good practice Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures relating to pollution prevention, biosecurity and other environmental good practice Ecology and Biodiversity - it is anticipated that the proposed works could result in measures relating to pollution prevention, biosecurity and other environmental good practice	Negligible – where t in no discernible imp environment.
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e required dependent on	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
ng road corridor and	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
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94	N/A F	Proposed Site Access		Construction of access junction to manufacturers specifications. Vegetation / tree canopy to be cut back and removed at locations. General carriageway widening in verge areas. Potential verge / embankment regrading. Potential carriageway re- grading. Potential physical upgrade works to existing drainage at locations of carriageway widening / regrading / embankment regrading.	Landscape and Visual: N/A	Landscape and Visual - Minor effects due to works largely within existing road corridor and tree works would be within commercial forestry extents.	Minor adverse effect – where the Proposed Development would result in a small deterioration of the existing environment.
					The adoption of the applicable good practice measures in the Outline CEMP would reduce the impact of modification to surface water drainage patterns, with artificial drainage installed only where necessary and would, wherever practical, be installed in advance of ground being cleared of vegetation. The adoption of the applicable good practice measures as summarised in the Outline CEMP would reduce the probability of a sedimentation and/or pollution incident occurring as a result of the carriageway widening, and also reduce the magnitude of any incident due to a combination of good site environmental management procedures.		Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Ecology and Biodiversity: The undertaking of an ecological walkover in advance of works would allow the identification of any habitat, flora or fauna constraints and allow suitable mitigation measures to be designed to reduce the potential adverse effects. Any bespoke mitigation measures arising from the ecological walkover, together with standard measures relating to pollution prevention, biosecurity and other environmental good practice measures recommended by CIRIA and SEPA, would reduce the potential adverse effects.	Ecology and Biodiversity - it is anticipated that the proposed works could result in Negligible impacts to the existing ecological baseline.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Ornithology: Avoid vegetation clearance in bird breeding season (March-August), or undertake t pre-works ECoW checks for nesting birds (to avoid legal non-compliance).	Ornithology - Vegetation clearance has the potential to result in legal offences related to nesting birds, however following the application of embedded mitigation negligible impacts on ornithological features are anticipated.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Noise: Construction: Works to be undertaken in accordance with the principle of BPM as defined in Section 72 of the Control of Pollution Act 1974 (CoPA).	Noise - Construction: Distance between closest sensitive receptor (based on AddressBase data) and POI is ~255m. Potential for direct, short term, temporary, negative minor noise impacts during construction works at nearby sensitive receptors.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Archaeology and Cultural Heritage: N/A	Archaeology and Cultural Heritage - This option is anticipated to have no or negligible benefit or negative impact on cultural heritage features.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.
					Forestry: N/A	Forestry - Impact dependent on detailed survey. Tree removal may be required dependent on extent of works required.	Negligible – where the Proposed Development would result in no discernible improvement or deterioration of the existing environment.

Appendix C.1

LANDSCAPE AND VISUAL MITIGATION LIST



Potential Landscape and Visual Mitigation Options

- Widening should be kept to the minimum width necessary no excess;
- No kerbs keep informal edge appearance to reduce impact on rural character;
- Consider use of mounding/lips on sensitive side (generally south east) which will help screen views of the widened road from elevated locations within the WLA;
- In less remote parts of the route, the reinstatement of stone walling where removed for access may also help reduce visibility of the widened route and integrate into the existing landscape character;
- Where parts of the route need to be unavoidably straightened going against the grain of the landscape, use of mounding/lips could be used to follow the natural contours to reduce the visual impacts;
- Grade out new earthwork slopes to tie into the existing landform;
- In areas where broadleaf trees need to be potentially removed or cut back, an Arborculturalist will need to survey the trees to identify the quality and condition and advise on mitigation or avoidance; and
- Have regard to the guidance within NatureScot's 'Constructed tracks in the Scottish Uplands' (2nd Edition 2013, updated Sept 2015). Whilst focussing on new tracks, it still has valuable landscape and visual advice (as well as for biodiversity and geodiversity) relevant for this project.

wsp

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