

Volume 2: Chapter 18 - Summary of Significant Effects

VOLUME 2, CHAPTER 18: SUMMARY OF SIGNIFICANT EFFECTS

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Visualisations (Volume 4 of this EIAR)

There are no visualisations associated with this Chapter

Figures (Volume 3 of this EIAR)

There are no figures associated with this Chapter

Appendices (Volume 5 of this EIAR)

There are no appendices associated with this Chapter

18. SUMMARY OF SIGNIFICANT EFFECTS

18.1 Introduction

- 18.1.1 The findings of the environmental impact assessment (EIA) undertaken for the Proposed Development are presented in **Volume 2: Technical Chapters, Chapters 7-16** of this EIA Report (EIAR). The significance of identified environmental effects resulting from the construction and operation of the Proposed Development has been assessed using criteria defined in each of those chapters. Unless the technical assessments state otherwise, the significance of effects has been categorised as **Major, Moderate, Minor** or **Negligible**, with only effects assessed as being of **Major** or **Moderate** significance considered to be **Significant** effects in the context of the *Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017* ('the EIA Regulations').
- 18.1.2 As discussed in **Volume 1, Chapter 5: EIA Process and Methodology**, in this EIAR, mitigation has been developed and organised in a three-tier hierarchy as follows:
- Embedded Mitigation: design stage mitigation;
 - Applied Mitigation: standard/best practice for environmental topics and/or construction industry mitigation; and
 - Additional Mitigation: site-specific or bespoke mitigation identified through the impact assessments undertaken for each environmental topic of the EIAR.
- 18.1.3 Each technical Chapter in this EIAR details the measures required to mitigate any identified Significant effects, and a summary of those mitigation measures is provided in **Volume 2, Chapter 17: Schedule of Mitigation**. Any remaining Significant effects following the implementation of Additional Mitigation measures are known as 'residual Significant effects'.
- 18.1.4 The purpose of this Chapter is to provide a summary of the Significant environmental effects identified within **Volume 2, Chapters 7-16** of this EIA Report, with a more focused account of any residual Significant effects and cumulative Significant effects. All predicted Significant effects (pre and post-mitigation) are summarised below in **Table 18.1: Summary of Significant Effects**.

18.2 Significant Effects

- 18.2.1 Prior to the application of additional mitigation measures, Significant effects are predicted in relation to the following topics:
- Land Use and Prime Agricultural Land (**Chapter 7**);
 - Forestry (**Chapter 8**);
 - Landscape and Visual Amenity (**Chapter 9**);
 - Cultural Heritage (**Chapter 10**);
 - Hydrology, Hydrogeology, Geology and Soils (**Chapter 13**);
 - Traffic and Transport (**Chapter 14**);
 - Noise and Vibration (**Chapter 15**); and
 - Cumulative interactive effects (**Chapter 16**).
- 18.2.2 Prior to the application of additional mitigation measures, Significant effects are not predicted in relation to the following topics, and these are therefore not discussed further in this Chapter:
- Ecology (**Chapter 11**); and
 - Ornithology (**Chapter 12**).
- 18.2.3 Following the application of additional mitigation, residual Significant effects remain for the following topics:
- Land Use and Prime Agricultural Land (**Chapter 7**);
 - Forestry (**Chapter 8**);
 - Landscape and Visual Amenity (**Chapter 9**);
 - Cultural Heritage (**Chapter 10**); and

- Cumulative effects (**Chapter 16**).

18.2.4 The sections below present a summary of the Significant residual effects identified by each of the five topics noted immediately above, as applicable. Further detail on the nature of these residual Significant effects is found in the corresponding Chapters.

Land Use and Prime Agricultural Land (PAL)

- 18.2.5 During construction and continuing through operation, the residual effect of the Proposed Development is considered to be **Significant (Major)** with respect to effects on Gossesslie Airfield, Laurencekirk Airstrip and Fordoun Airfield. This is based on the judgement that the airfields are of High sensitivity and the aviation risk level is reported as High. The Applicant is in liaison with the owners and operators of the airfields to identify appropriate mitigation measures.
- 18.2.6 During construction and continuing through operation, the residual effect of the Proposed Development is considered to be **Significant (Moderate)** with respect to effects on recreational fisheries on the River South Esk, River North Esk (including the West Water) and the River Dee. This is based on the judgement that these are prime fishing resources of a High sensitivity but with a Low magnitude of change. The Applicant is in liaison with key stakeholders for the recreational fisheries to identify appropriate mitigation measures.
- 18.2.7 There are nine reasonably foreseeable Inter Developments that are likely to intersect with PAL in the study area that may result in cumulative effects on PAL when considered together with the Proposed Development and the Intra Developments. Further effects on PAL from these Inter Developments could potentially result in **Significant** cumulative effects on PAL based on the significance criteria adopted for this EIA.

Forestry

- 18.2.8 The potential for residual significant effects during construction on forestry is considered to be **Significant (Major)**. This is based on the judgement that there is a High sensitivity of the forestry and woodland resource given the presence of Class 2a and 2b ancient woodland, with a High magnitude of change as there would be permanent forestry and woodland loss within the Operational Corridor.
- 18.2.9 It is also concluded that there is a **Significant** cumulative effect on forestry during construction. There are 11 Inter Developments that have been predicted to have cumulative effects when considered together with the Proposed Development and the Intra Developments. The majority (eight) of the developments which are likely to have a cumulative effect are located within or near to Fetteresso Forest, with one development near Tealing. The other two developments identified are wind farms located west of the Proposed Development in Sections D and F.

Landscape and Visual Amenity

- 18.2.10 This section presents a summary of the significant residual effects and cumulative effects predicted on landscape and visual amenity. Owing to the complexity of the assessment and considerations associated with determining the significance of effects on specific landscape and visual receptors, landscape character and views experienced by people, it is strongly recommended to refer to **Volume 2, Chapter 9: Landscape and Visual Amenity** and its associated appendices for additional information.

Landscape

- 18.2.11 During operation, **Significant** residual effects are predicted on 12 Landscape Character Types (LCT) as follows. Note that with the exception of LCT379 Foothills - Tayside, all of the listed LCTs are also predicted to experience Significant residual effects during construction:
- LCT 387: Dipslope Farmland (Tealing Unit) (**Major, Significant**);
 - LCT 382: Lowland Hills Ranges (**Major, Significant**);
 - LCT 386: Low Moorland Hills (**Moderate, Significant**);
 - LCT 384: Broad Valley Lowlands - Tayside (Forfar Unit) (**Major, Significant**);
 - LCT 384: Broad Valley Lowlands – Tayside (Brechin Unit) (**Major, Significant**);
 - LCT 379: Foothills - Tayside (**Moderate, Significant**);
 - LCT 22: Broad Valley Lowlands – Aberdeenshire (**Major, Significant**);

- LCT 24: Coastal Farmed Ridges and Hills – Aberdeenshire (**Major, Significant**);
- LCT 29: Summits and Plateaux – Aberdeenshire (**Major, Significant**);
- LCT 31: Broad Wooded and Farmed Valley (**Major, Significant**);
- LCT 26: Wooded Estates – Aberdeenshire (Echt Unit) (**Major, Significant**); and
- LCT 26: Wooded Estates – Aberdeenshire (Kintore Unit) (**Major, Significant**);

18.2.12 **Significant** residual effects are also predicted on two landscape designations during operation:

- River South Esk LLA (**Major, Significant**); and
- Dee Valley SLA (**Major, Significant**).

18.2.13 During construction and operation, cumulative **Significant** effects are predicted on five LCTs:

- LCT 387: Dipslope Farmland (Tealing Unit);
- LCT 382: Lowland Hills Ranges;
- LCT 24: Coastal Farmed Ridges and Hills – Aberdeenshire;
- LCT 29: Summits and Plateaux – Aberdeenshire; and
- LCT 26: Wooded Estates – Aberdeenshire Kintore Unit.

Visual

18.2.14 During operation, **Significant** residual effects (either **Moderate or Major**) are predicted for a total of 115 Visual Receptor Areas (VRAs), while during construction **Significant** effects are predicted for a total of 106 VRAs, as listed in more detail in **Table 18.1: Summary of Significant Effects** owing to the number of VRAs impacted. In the main, the same VRAs are predicted to have **Significant** residual effects during both construction and operation, with the exception of the following VRAs:

- VRA A1: Downfield – predicted as Minor (not significant) during construction and **Moderate (Significant)** during operation.
- VRA A4: Tealing and Kirkton of Tealing – predicted as Minor (not significant) during construction and **Moderate (Significant)** during operation.
- VRA B13: North Quilkoe to Battledykes - predicted as Minor (not significant) during construction and **Moderate (Significant)** during operation.
- VRA B15: Murthill to Tobees – predicted as **Moderate (Significant)** during construction and Minor (not significant) during operation.
- VRA D14: Mains of Dellavaird – predicted as **Moderate (Significant)** during construction and Minor (not significant) during operation.
- VRA D26: The Wyndings – predicted as **Moderate (Significant)** during construction and Minor (not significant) during operation.
- VRA F12: North Eddieston, Little Eddieston, Meikle Eddieston, Upper Anguston, Easter Anguston – predicted as Minor (not significant) during construction and **Moderate (Significant)** during operation.
- VRA F18: Knockquharn, Easter Echt, Milton of Garlogie, and Lothead – Minor (not significant) during construction and **Moderate (Significant)** during operation.
- VRA F35: Cottown – Minor (not significant) during construction and **Moderate (Significant)** during operation.

18.2.15 During construction, cumulative **Significant** effects are predicted on 22 VRAs, while during operation cumulative **Significant** effects are predicted on 27 VRAs. These are further detailed in **Table 18.1: Summary of Significant Effects**. In the main, the same VRAs are predicted to have cumulative **Significant** effects during both construction and operation, with the following exceptions:

- VRA A7: – predicted as not significant during construction and **Significant** during operation.
- VRA F10: Hirn, Glashmore, and Rashenloch – predicted as not significant during construction and **Significant** during operation.

- VRA F11: Schoolhill – predicted as not significant during construction and **Significant** during operation.
- VRA F16: Meikle Tap and Wester Tillyshogle – predicted as **Significant** during construction and not significant during operation.
- VRA F17: South Kirkton, Mill of Echt, and Tilloch – predicted as not significant during construction and **Significant** during operation.
- VRA F21: Echt – predicted as not significant during construction and **Significant** during operation.
- VRA F23: Barmekin Hill, Barmekin Wood and surroundings – predicted as not significant during construction and **Significant** during operation.

Cultural Heritage

18.2.16 During operation, **Significant (Moderate)** residual effects are predicted on the setting of eight Scheduled Monuments. Scheduled monuments are considered to be of High Sensitivity and it is assessed that the setting of these designated heritage assets would be changed to some degree by the introduction of the Proposed Development:

- Effect on the setting of Balkemback Cottages Stone Circle (SM 2868) (Section A);
- Effect on the setting of Law of Baldoukie Ring Ditch (SM 6314) (Section B);
- Effect on the setting of Mill of Balrownie Ring Ditch (SM 6472) (Section C);
- Effect on the setting of Westside Barrows (SM 6367) (Section C);
- Effect on the setting of Westside Unenclosed Settlement (SM 6368) (Section C);
- Effect on the setting of East Finnercy Cairn (SM 6076) (Section F);
- Effect on the setting of New Wester Echt Stone Circle (SM 6074) (Section F); and
- Effect on the setting of South Leylodge Steading Stone Circle (SM 12350) (Section F).

18.2.17 **Significant** cumulative effects are predicted on the setting of four Scheduled Monuments during operation:

- Cumulative effect on the setting of Balkemback Cottages Stone Circle (SM 2868), associated with the Tie-In of the Alyth to Tealing 275 kV OHL to Emmock Substation;
- Cumulative effect on the setting of St Orland's Stone (SM 90270), associated with the proposed Cossans Solar & BESS Inter Development;
- Cumulative effect on the setting of East Finnercy Cairn (SM 6076), associated with the proposed Hare of Fare Wind Farm Inter Development; and
- Cumulative effect on the setting of South Leylodge Steading Stone Circle (SM12350), associated with the Kintore Hydrogen Production Facility Inter Development.

Cumulative Effects

18.2.18 **Volume 2, Chapter 16: Cumulative Effects Assessment**, summarised the potential significant cumulative effects predicted for the Proposed Development when considered alongside other future developments (known as 'in-combination effects'). In-combination cumulative effects are summarised in the technical chapter summaries above and **Table 18.1: Summary of Significant Effects**.

18.2.1 **Volume 2, Chapter 16: Cumulative Effects Assessment** considered the potential for effects to arise from the interaction of different impact types from the Proposed Development on common receptor groups (known as 'interactive effects'). Cumulative interactive effects on some residential properties (or groups), some key recreational routes (including Core Paths) and some accessible watercourses from Landscape and Visual Amenity, Traffic and Transport and Noise during construction from the Proposed Development are predicted to be **Significant**, effects on accessible watercourses would continue into the operational phase.

18.3 Summary of Significant Effects

18.3.1 **Table 18.1: Summary of Significant Effects** summarises the predicted significant effects as a result of the Proposed Development.

Table 18.1: Summary of Significant Effects

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Land Use and Prime Agricultural Land			
Construction			
Recreational Airfields	Major (Significant)	N/A	Major (Significant)
Fisheries (River South Esk, River North Esk and the River Dee)	Moderate (Significant)	N/A	Moderate (Significant)
Operation			
Recreational Airfields	Major (Significant)	N/A	Major (Significant)
Fisheries (River South Esk, River North Esk and the River Dee)	Moderate (Significant)	N/A	Moderate (Significant)
Cumulative – Construction			
Prime Agricultural Land	Major (Significant)	N/A	Major (Significant)
Forestry			
Construction			
Loss of Forestry	Major (Significant)	N/A	Major (Significant)
Cumulative – Construction			
Loss of Forestry	Significant	N/A	Significant
Landscape and Visual Amenity			
Construction			
Landscape			
Landscape Character Types			
LCT 387: Dipslope Farmland (Tealing Unit)	Moderate (Significant)	N/A	Moderate (Significant)
LCT 382: Lowland Hills Ranges	Moderate (Significant)	N/A	Moderate (Significant)
LCT 386: Low Moorland Hills	Moderate (Significant)	N/A	Moderate (Significant)
LCT 384: Broad Valley Lowlands - Tayside (Forfar Unit)	Moderate (Significant)	N/A	Moderate (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
LCT 384: Broad Valley Lowlands – Tayside (Brechin Unit)	Moderate (Significant)	N/A	Moderate (Significant)
LCT 22: Broad Valley Lowlands - Aberdeenshire	Moderate (Significant)	N/A	Moderate (Significant)
LCT 24: Coastal Farmed Ridges and Hills – Aberdeenshire	Moderate (Significant)	N/A	Moderate (Significant)
LCT 29: Summits and Plateaux – Aberdeenshire	Moderate (Significant)	N/A	Moderate (Significant)
LCT 31: Broad Wooded and Farmed Valley	Moderate (Significant)	N/A	Moderate (Significant)
LCT 26: Wooded Estates – Aberdeenshire Echt Unit	Moderate (Significant)	N/A	Moderate (Significant)
LCT 26: Wooded Estates – Aberdeenshire Kintore Unit	Moderate (Significant)	N/A	Moderate (Significant)
Landscape Designations			
River South Esk LLA	Moderate (Significant)	N/A	Moderate (Significant)
Dee Valley SLA	Moderate (Significant)	N/A	Moderate (Significant)
Visual			
Visual Receptor Areas			
VRA A2: Templeton, Gallowhill, Myreton of Claverhouse, and Inveraldie	Moderate (Significant)	N/A	Moderate (Significant)
VRA A3: Balnuth	Moderate (Significant)	N/A	Moderate (Significant)
VRA A6: Balkemback	Major (Significant)	N/A	Major (Significant)
VRA A7: Balluderon and Balkello	Moderate (Significant)	N/A	Moderate (Significant)
VRA A8: Ark Hill, Balkello, Craigowl and Gallow Hills	Major (Significant)	N/A	Major (Significant)
VRA A9: Prieston and Coldstream	Major (Significant)	N/A	Major (Significant)
VRA A10: Lumley Den to Happas	Moderate (Significant)	N/A	Moderate (Significant)
VRA A12: Upper Hayston Farm to Nether Hayston	Major (Significant)	N/A	Major (Significant)
VRA A13: Meikle Kilmundie to Arniefoul Mill	Major (Significant)	N/A	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA A17: Plans of Thornton	Major (Significant)	N/A	Major (Significant)
VRA A18: Douglstown and Kirkton	Moderate (Significant)	N/A	Moderate (Significant)
VRA A19: Ingliston and Mains of Brighton	Major (Significant)	N/A	Major (Significant)
VRA A20: Haughs of Cossans	Moderate (Significant)	N/A	Moderate (Significant)
VRA A21: Glamis, Leys of Cossans, and Kinalty Haughs	Moderate (Significant)	N/A	Moderate (Significant)
VRA B1: Westmuir, Drumshade, and Logie	Moderate (Significant)	N/A	Moderate (Significant)
VRA B2: Ballindarg	Moderate (Significant)	N/A	Moderate (Significant)
VRA B3: Upper Drumgley to Loch of Forfar	Moderate (Significant)	N/A	Moderate (Significant)
VRA B6: Padanaram	Major (Significant)	N/A	Major (Significant)
VRA B7: Baggerton, Bogside, and Lunanhead	Moderate (Significant)	N/A	Moderate (Significant)
VRA B8: Mossie of Ballinshoe to Over Bow	Major (Significant)	N/A	Major (Significant)
VRA B9: Redford to Woodside	Major (Significant)	N/A	Major (Significant)
VRA B11: Drumclune, Garlowbank, Forest Muir, and Bog	Moderate (Significant)	N/A	Moderate (Significant)
VRA B12: Blairfeddon to Craigeassie	Major (Significant)	N/A	Major (Significant)
VRA B15: Murthill to Tobeas	Moderate (Significant)	N/A	Moderate (Significant)
VRA B16: Cairnhill	Major (Significant)	N/A	Major (Significant)
VRA B17: Derachie, Downiepark, and Shielhill	Moderate (Significant)	N/A	Moderate (Significant)
VRA B18: Meikle Coull to Knowehead	Major (Significant)	N/A	Major (Significant)
VRA B19: Tannadice	Major (Significant)	N/A	Major (Significant)
VRA B20: Tannadice to Hill of Finavon	Moderate (Significant)	N/A	Moderate (Significant)
VRA B22: Noranbank to Careston	Moderate (Significant)	N/A	Moderate (Significant)
VRA B23: Hilton of Fern and Roughmount Wood	Moderate (Significant)	N/A	Moderate (Significant)
VRA B24: Wellford to Boggie Wood	Major (Significant)	N/A	Major (Significant)
VRA B25: South Noranside	Moderate (Significant)	N/A	Moderate (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA B26: Auchnacree, Glenogil, Ogil, and Fern	Moderate (Significant)	N/A	Moderate (Significant)
VRA B28: Balmadity to Blackhall	Major (Significant)	N/A	Major (Significant)
VRA B29: Montboy to Mill of Cruick	Major (Significant)	N/A	Major (Significant)
VRA C2: Belliehill to Balrownie	Major (Significant)	N/A	Major (Significant)
VRA C3: Maisondieu, Barewell, and Kintrockat	Moderate (Significant)	N/A	Moderate (Significant)
VRA C5: Little Brechin	Moderate (Significant)	N/A	Moderate (Significant)
VRA C7: Grosefield to Stracathro	Moderate (Significant)	N/A	Moderate (Significant)
VRA C8: Brathinch and Bankhead Wood	Moderate (Significant)	N/A	Moderate (Significant)
VRA C9: Inchbare	Moderate (Significant)	N/A	Moderate (Significant)
VRA C10: Lummington	Major (Significant)	N/A	Major (Significant)
VRA C11: Chapelton & Reidhall	Moderate (Significant)	N/A	Moderate (Significant)
VRA C15: Westside to Inveriscandye	Major (Significant)	N/A	Major (Significant)
VRA C16: Capo Plantation	Moderate (Significant)	N/A	Moderate (Significant)
VRA C18: Luthermuir	Major (Significant)	N/A	Major (Significant)
VRA C19: Mains of Drumhendry	Major (Significant)	N/A	Major (Significant)
VRA C20: Edzell Airfield	Moderate (Significant)	N/A	Moderate (Significant)
VRA C22: Black Burn and Craigmoston Burn	Moderate (Significant)	N/A	Moderate (Significant)
VRA C25: Mains of Thornton	Major (Significant)	N/A	Major (Significant)
VRA C26: North of Lady Jane's Plantation	Major (Significant)	N/A	Major (Significant)
VRA C27: Inchgray Farm to Auchcairnle Croft	Moderate (Significant)	N/A	Moderate (Significant)
VRA D4: Westerton / Waulkmill	Major (Significant)	N/A	Major (Significant)
VRA D5: Cammackmuir Plantation / Gallows Knap	Major (Significant)	N/A	Major (Significant)
VRA D6: West Cairnbeg / Scotch-haugh Burn	Moderate (Significant)	N/A	Moderate (Significant)
VRA D7: Woods of Redhall / Nursery Burn	Major (Significant)	N/A	Major (Significant)
VRA D8: Redhall / Pittengardner	Major (Significant)	N/A	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA D11: Herscha Hill / Stoneyfield Belt	Moderate (Significant)	N/A	Moderate (Significant)
VRA D14: Mains of Dellavaire	Moderate (Significant)	N/A	Moderate (Significant)
VRA D15: North Blairs to Burnhead of Monboddoo	Major (Significant)	N/A	Major (Significant)
VRA D16: Auchtochter	Major (Significant)	N/A	Major (Significant)
VRA D17: Glenbervie	Moderate (Significant)	N/A	Moderate (Significant)
VRA D20: Inches	Major (Significant)	N/A	Major (Significant)
VRA D21: Jacksbank	Major (Significant)	N/A	Major (Significant)
VRA D22: Newmill to Tannachie	Major (Significant)	N/A	Major (Significant)
VRA D23: Carmont Hill	Moderate (Significant)	N/A	Moderate (Significant)
VRA D24: Quithel	Major (Significant)	N/A	Major (Significant)
VRA D25: Elfhill	Major (Significant)	N/A	Major (Significant)
VRA D26: The Wyndings	Moderate (Significant)	N/A	Moderate (Significant)
VRA E2: Hill of Swanley, Cheyne, and Fetteresso	Moderate (Significant)	N/A	Moderate (Significant)
VRA E3: Cowie Water and Black Burn	Moderate (Significant)	N/A	Moderate (Significant)
VRA E4: Rickarton and Slug Road	Moderate (Significant)	N/A	Moderate (Significant)
VRA E5: Strathgyle Wood, Hill of Auquhollie, and Nerther Auquhollie	Moderate (Significant)	N/A	Moderate (Significant)
VRA E6: Cairn-mon-earn, Durris Forest	Major (Significant)	N/A	Major (Significant)
VRA E7: Tilquhillie, Blairydrine, and Crossroads	Moderate (Significant)	N/A	Moderate (Significant)
VRA E8: Balladrum Wood	Major (Significant)	N/A	Major (Significant)
VRA E9: Funach Wood	Major (Significant)	N/A	Major (Significant)
VRA E10: Calladrum Wood	Major (Significant)	N/A	Major (Significant)
VRA E13: Kirkton of Durris	Major (Significant)	N/A	Major (Significant)
VRA E15: A93 / West Park	Major (Significant)	N/A	Major (Significant)
VRA E16: Park House / A93	Major (Significant)	N/A	Major (Significant)
VRA F1: Upper Park/Beechgrove Cottages	Major (Significant)	N/A	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA F3: Loch of Park & Collonach Plantation	Moderate (Significant)	N/A	Moderate (Significant)
VRA F4: West of Drumoak	Moderate (Significant)	N/A	Moderate (Significant)
VRA F9: Quartains	Major (Significant)	N/A	Major (Significant)
VRA F10: Hirn, Glashmore, and Rashenlochy	Major (Significant)	N/A	Major (Significant)
VRA F11: Schoolhill	Major (Significant)	N/A	Major (Significant)
VRA F14: Hill of Braigie, Braigiewell, East Finnercy, Northton, and Templefold	Moderate (Significant)	N/A	Moderate (Significant)
VRA F15: Landerberry, Milton of Finnercy, and Tillyshogle	Major (Significant)	N/A	Major (Significant)
VRA F16: Meikle Tap and Wester Tillyshogle	Moderate (Significant)	N/A	Moderate (Significant)
VRA F17: South Kirkton, Mill of Echt, and Tillioch	Moderate (Significant)	N/A	Moderate (Significant)
VRA F19: Easter Culfosie, North Monecht, and Meanecht	Major (Significant)	N/A	Major (Significant)
VRA F20: North Mains, Myriewell, Kirk Cottages and South Monecht	Moderate (Significant)	N/A	Moderate (Significant)
VRA F21: Echt	Moderate (Significant)	N/A	Moderate (Significant)
VRA F23: Barmekin Hill, Barmekin Wood and surroundings	Major (Significant)	N/A	Major (Significant)
VRA F25: Dunecht Village and surroundings	Major (Significant)	N/A	Major (Significant)
VRA F29: Lauchintilly and Glack	Moderate (Significant)	N/A	Moderate(Significant)
VRA F30: Backhill of Glack to Leylodge	Major (Significant)	N/A	Major (Significant)
VRA F31: Westhill	Major (Significant)	N/A	Major (Significant)
VRA F32: Womblehill, Burnside, Upper Terryvale, and Glasgoforest	Moderate (Significant)	N/A	Moderate (Significant)
VRA F33: Leylodge and surroundings	Major (Significant)	N/A	Major (Significant)
Operation			
Landscape			
Landscape Character Types			

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
LCT 387: Dipslope Farmland (Tealing Unit)	Major (Significant)	Softening of forestry and woodland edges, including wayleaves.	Major (Significant)
LCT 382: Lowland Hills Ranges	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 386: Low Moorland Hills	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
LCT 384: Broad Valley Lowlands - Tayside (Forfar Unit)	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 384: Broad Valley Lowlands – Tayside (Breichin Unit)	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 379: Foothills - Tayside	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
LCT 22: Broad Valley Lowlands - Aberdeenshire	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 24: Coastal Farmed Ridges and Hills – Aberdeenshire	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 29: Summits and Plateaux – Aberdeenshire	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 31: Broad Wooded and Farmed Valley	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 26: Wooded Estates – Aberdeenshire Echt Unit	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
LCT 26: Wooded Estates – Aberdeenshire Kintore Unit	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
Landscape Designations			
River South Esk LLA	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
Dee Valley SLA	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
Visual			

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Visual Receptor Areas			
VRA A1: Downfield	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA A2: Templeton, Gallowhill, Myreton of Claverhouse, and Inveraldie	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA A3: Balnuith	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA A4: Tealing and Kirkton of Tealing	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA A6: Balkemback	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A7: Balluderon and Balkello	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA A8: Ark Hill, Balkello, Craigowl and Gallow Hills	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A9: Prieston and Coldstream	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A10: Lumley Den to Happas	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A12: Upper Hayston Farm to Nether Hayston	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A13: Meikle Kilmundie to Arniefoul Mill	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A17: Plans of Thornton	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A18: Douglastown and Kirkton	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA A19: Ingliston and Mains of Brighton	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA A20: Haughs of Cossans	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA A21: Glamis, Leys of Cossans, and Kinalty Haughs	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B1: Westmuir, Drumshade, and Logie	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B2: Ballindarg	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B3: Upper Drumgley to Loch of Forfar	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA 65: Padanaram	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B7: Baggerton, Bogside, and Lunanhead	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B8: Mossie of Ballinshoe to Over Bow	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B9: Redford to Woodside	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B11: Drumclune, Garlowbank, Forest Muir, and Bog	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B12: Blairyfeddon to Craigeassie	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B13: North Quilkoe to Battledykes	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B16: Cairnhill	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B17: Derachie, Downiepark, and Shielhill	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B18: Meikle Coull to Knowehead	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B19: Tannadice	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B20: Tannadice to Hill of Finavon	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA B22: Noranbank to Careston	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B23: Hilton of Fern and Roughmount Wood	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA B24: Wellford to Boggie Wood	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B25: South Noranside	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B26: Auchnacree, Glenogil, Ogil, and Fern	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B28: Balmadity to Blackhall	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA B29: Montboy to Mill of Cruick	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C2: Belliehill to Balrownie	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C3: Maisondieu, Barewell, and Kintrockat	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C5: Little Brechin	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C7: Grosefield to Stracathro	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C8: Brathinch and Bankhead Wood	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C9: Inchbare	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C10: Lummington	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C11: Chapelton & Reidhall	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C15: Westside to Inveriscandye	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA C16: Capo Plantation	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C18: Luthermuir	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C19: Mains of Drumhendry	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C20: Edzell Airfield	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C22: Black Burn and Craigmoston Burn	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA C25: Mains of Thornton	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C26: North of Lady Jane's Plantation	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA C27: Inchgray Farm to Auchcairnle Croft	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA D4: Westerton / Waulkmill	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D5: Cammackmuir Plantation / Gallows Knap	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D6: West Cairnbeg / Scotch-haugh Burn	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA D7: Woods of Redhall / Nursery Burn	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D8: Redhall / Pittengardner	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D11: Herscha Hill / Stoneyfield Belt	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA D15: North Blairs to Burnhead of Monboddoo	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D16: Auchtochter	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA D17: Glenbervie	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA D20: Inches	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D21: Jacksbank	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA D22: Newmill to Tannachie	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D23: Carmont Hill	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA D24: Quithel	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA D25: Elfhill	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E2: Hill of Swanley, Cheyne, and Fetteresso	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA E3: Cowie Water and Black Burn	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E4: Rickarton and Slug Road	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E5: Strathgyle Wood, Hill of Auquhollie, and Nerther Auquhollie	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA E6 ; Cairn-mon-earn, Durris Forest	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E7: Tilquhillie, Blairydrine, and Crossroads	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA E8: Balladrum Wood	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E9: Funach Wood	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E10: Calladrum Wood	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA E13: Kirkton of Durris	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E15: A93 / West Park	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA E19: Park House / A93	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F1: Upper Park/Beechgrove Cottages	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F3: Loch of Park & Collonach Plantation	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA F4: West of Drumoak	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F9: Quartains	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F10: Hirn, Glashmore, and Rashenlochy	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F11: Schoolhill	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F12: North Eddieston, Little Eddieston, Meikle Eddieston, Upper Anguston, Easter Anguston	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA F14: Hill of Braigie, Braigiewell, East Finnercy, Northton, and Templefold	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F15: Landerberry, Milton of Finnercy, and Tillyshogle	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F16: Meikle Tap and Wester Tillyshogle	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA F17: South Kirkton, Mill of Echt, and Tillioch	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA F18: Knockquharn, Easter Echt, Milton of Garlogie, and Lothead	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA F19: Easter Culfosie, North Monecht, and Meanecht	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F20: North Mains, Myriewell, Kirk Cottages and South Monecht	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F21: Echt	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F23: Barmekin Hill, Barmekin Wood and surroundings	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F25: Dunecht Village and surroundings	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F29: Lauchintilly and Glack	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F30: Backhill of Glack to Leylodge	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F31: Westhill	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F32: Womblehill, Burnside, Upper Terryvale, and Glasgoforest	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
VRA F33: Leylodge and surroundings	Major (Significant)	Softening of forestry and woodland edges, including wayleaves	Major (Significant)
VRA F35: Cottown	Moderate (Significant)	Softening of forestry and woodland edges, including wayleaves	Moderate (Significant)
Cumulative – Construction			
Landscape			
Landscape Character Types			
LCT 387: Dipslope Farmland (Tealing Unit)	Significant	N/A	Significant
LCT 382: Lowland Hills Ranges	Significant	N/A	Significant
LCT 24: Coastal Farmed Ridges and Hills – Aberdeenshire	Significant	N/A	Significant
LCT 29: Summits and Plateaux – Aberdeenshire	Significant	N/A	Significant

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
LCT 26: Wooded Estates – Aberdeenshire Echt Unit	Significant	N/A	Significant
LCT 26: Wooded Estates – Aberdeenshire Kintore Unit	Significant	N/A	Significant
Visual			
Visual Receptor Areas			
VRA A2: Templeton, Gallowhill, Myreton of Claverhouse, and Inveraldie	Significant	N/A	Significant
VRA A3: Balnuith	Significant	N/A	Significant
VRA A6: Balkemback	Significant	N/A	Significant
VRA A8: Ark Hill, Balkello, Craigowl and Gallow Hills	Significant	N/A	Significant
VRA A9: Prieston and Coldstream	Significant	N/A	Significant
VRA D22: Newmill to Tannachie	Significant	N/A	Significant
VRA D23: Carmont Hill	Significant	N/A	Significant
VRA D24: Quithel	Significant	N/A	Significant
VRA D25: Elfhill	Significant	N/A	Significant
VRA D26: The Wyndings	Significant	N/A	Significant
VRA E1: Fetteresso Forest	Significant	N/A	Significant
VRA E2: Hill of Swanley, Cheyne, and Fetteresso	Significant	N/A	Significant
VRA E3: Cowie Water and Black Burn	Significant	N/A	Significant
VRA E4: Rickarton and Slug Road	Significant	N/A	Significant
VRA E5: Strathgyle Wood, Hill of Auquhollie, and Nerther Auquhollie	Significant	N/A	Significant
VRA E6: Cairn-mon-earn, Durris Forest	Significant	N/A	Significant
VRA F16: Meikle Tap and Wester Tillyshogle	Significant	N/A	Significant
VRA F29: Lauchintilly and Glack	Significant	N/A	Significant
VRA F30: Backhill of Glack to Leylodge	Significant	N/A	Significant

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA F31: Westhill	Significant	N/A	Significant
VRA F32: Womblehill, Burnside, Upper Terryvale, and Glasgoforest	Significant	N/A	Significant
VRA F33: Leylodge and surroundings	Significant	N/A	Significant
Cumulative – Operation			
Landscape			
Landscape Character Types			
LCT 387: Dipslope Farmland (Tealing Unit)	Significant	N/A	Significant
LCT 382: Lowland Hills Ranges	Significant	N/A	Significant
LCT 24: Coastal Farmed Ridges and Hills – Aberdeenshire	Significant	N/A	Significant
LCT 29: Summits and Plateaux – Aberdeenshire	Significant	N/A	Significant
LCT 26: Wooded Estates – Aberdeenshire Echt Unit	Significant	N/A	Significant
LCT 26: Wooded Estates – Aberdeenshire Kintore Unit	Significant	N/A	Significant
Visual			
Visual Receptor Areas			
VRA A2: Templeton, Gallowhill, Myreton of Claverhouse, and Inveraldie	Significant	N/A	Significant
VRA A3: Balnuith	Significant	N/A	Significant
VRA A6: Balkemback	Significant	N/A	Significant
VRA A7: Balluderon and Balkello	Significant	N/A	Significant
VRA A8: Ark Hill, Balkello, Craigowl and Gallow Hills	Significant	N/A	Significant
VRA A9: Prieston and Coldstream	Significant	N/A	Significant
VRA D22: Newmill to Tannachie	Significant	N/A	Significant
VRA D23: Carmont Hill	Significant	N/A	Significant

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
VRA D24: Quithel	Significant	N/A	Significant
VRA D25: Elfhill	Significant	N/A	Significant
VRA D26: The Wyndings	Significant	N/A	Significant
VRA E1: Fetteresso Forest	Significant	N/A	Significant
VRA E2: Hill of Swanley, Cheyne, and Fetteresso	Significant	N/A	Significant
VRA E3: Cowie Water and Black Burn	Significant	N/A	Significant
VRA E4: Rickarton and Slug Road	Significant	N/A	Significant
VRA E5: Strathgyle Wood, Hill of Auquhollie, and Nerther Auquhollie	Significant	N/A	Significant
VRA E6: Cairn-mon-earn, Durris Forest	Significant	N/A	Significant
VRA F10: Hirn, Glashmore, and Rashesloch	Significant	N/A	Significant
VRA F11: Schoolhill	Significant	N/A	Significant
VRA F17: South Kirkton, Mill of Echt, and Tillioch	Significant	N/A	Significant
VRA F21: Echt	Significant	N/A	Significant
VRA F23: Barmekin Hill, Barmekin Wood and surroundings	Significant	N/A	Significant
VRA F29: Lauchintilly and Glack	Significant	N/A	Significant
VRA F30: Backhill of Glack to Leylodge	Significant	N/A	Significant
VRA F31: Westhill	Significant	N/A	Significant
VRA F32: Womblehill, Burnside, Upper Terryvale, and Glasgoforest	Significant	N/A	Significant
VRA F33: Leylodge and surroundings	Significant	N/A	Significant
Cultural Heritage			
Construction			
Direct effects on 29 heritage assets, where buried archaeological remains may survive and could potentially be encountered and disturbed during construction works:	Moderate adverse (Significant)	Archaeological watching briefs to be carried out during any groundbreaking works in archaeological sensitive areas.	Minor adverse residual effect (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
- Balkemback Farm Cists (NO33NE017) - Preiston Farm Souterrain (NO33NE019) - Jericho, Cropmark Site (NO44NW0021) - Douglastown (Buildings, Pits, Rig and Furrow (N044NW0092/HA038) - Cotton of Drumglay, Farmstead (N045SW0079) - Blackhall, Settlement (NO56SE0070) - Aureoch Settlement (331549) - Westside Enclosures (NO66NW0065) - Capo Field Boundary (263639) - Dalladies Enclosure (NO66NW0080) - Bent Pit Alignment (NO67SE0012) - Burnhead of Monboddo Ring Ditch (NO77NW0032) - Burnhead of Monboddo Burial Cist (NO77NW0009) - Burnhead of Monboddo 1 Enclosure and Ring Ditch (NO77NW0024) - Burnhead of Monboddo 2 Unenclosed Settlement (NO77NW0026) - Burnhead of Monboddo Rig Ditch and Souterrain (NO77NE0031) - West Durriss Stone Cist (NO79NE0003) - Murphiehow, Croft (NJ70SE0114) - Culfosie, Farmstead (NJ70NW0057) - Tilly Brig, Building (NJ70NW0088) - Corskiecroft, Croft (NJ70NW0135) - Hill of Corskie, Building (NJ71SW0147) - Hill of Corskie, Croft (NJ71SW0146) - Former buildings (HA042, HA045, HA062, and HA071) - Former field boundary (305995/HA077)		If significant discoveries are made during the watching brief, and preservation in situ is not possible, provision would be made for any appropriate amount of investigations and recording to be agreed in writing with Aberdeenshire Council Archaeology Service (ACAS).	

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Former garden (HA078)			
Potential direct effects on 20 heritage assets if the proposed towers or proposed access tracks were to be relocated in the LOD: - North Balluderon, Enclosure (N033NE0020) - Upper Hayston Enclosure (134404) - Auchenreouch Earthwork (34983) - Boonietown Spinning Mill (former) (NO66NW0087) - Bogmuir Enclosure (NO67SE0064) - Greenbottom Wood, Building (NO67SE0022) - Former Burial Cairn (Site of) (NO56SE0002) - Queel-a-Mundie Croft (NO78SE0048) - Quell-a-Mundie Building (NO78SE0064) - Former smithy (NO78SE0045) - Lochside Buildings (NO79NE0087) - the site of former burial cist (NO56SE0010) - rig and furrow/enclosure cropmark remains (NO66NW0042) - Former Buildings (HA039, HA046, HA048, HA055, HA063, HA090 and HA112)	Moderate adverse (Significant)	Archaeological watching briefs to be carried out during any groundbreaking works in archaeological sensitive areas. If significant discoveries are made during the watching brief, and preservation in situ is not possible, provision would be made for any appropriate amount of investigations and recording to be agreed in writing with ACAS.	Minor adverse residual effect (Not Significant)
Direct effects on the upstanding remains of a clearance cairn (HA013)	Moderate adverse (Significant)	Archaeological investigation and recording of the cairn prior to construction works carried out, to a specification and standard agreed in consultation with ACAS. If significant discoveries are made during any required archaeological monitoring, and preservation in situ of any sites or features is not possible, provision would be made for an appropriate amount of investigation and recording to be agreed in writing with ACAS.	Minor adverse residual effect (Not Significant)
Potential direct impact on any possible surviving remains of Second World War military aircraft crash sites at Tannchie and Fetteresso Forestry. It is assessed that there is a negligible potential for such remains to survive within the Site.	Major adverse (Significant)	Written guidelines will be set out outlining that remains of a military aircraft crash site may survive within the Site, and there is a need to avoid causing unnecessary damage to these remains should any be encountered. The guidelines will set out arrangements for calling upon an appointed Archaeological Clerk of Works (ACoW) if	Minor adverse residual effect (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		military aircraft crash site remains should be discovered during any construction activities.	
Potential direct impact on any hitherto unknown archaeological remains. It is assessed that there is a moderate to high potential for as yet undetected, buried archaeological remains to survive within the Site, particularly in Section B (inner study area) areas of open moorland, pasture.	Major adverse (Significant)	Archaeological planning condition. The scope of works would be agreed through consultation with ACAS and detailed in a Written Scheme of Investigation (WSI).	Minor adverse residual effect (Not Significant)
Operation			
Effect on the setting of Balkemback Cottages Stone Circle (SM 2868)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of Law of Baldoukie Ring Ditch (SM 6314)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of Mill of Balrownie Ring Ditch (SM 6472)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of Westside Barrows (SM 6367)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of Westside Unenclosed Settlement (SM 6368)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of East Finnercy Cairn (SM 6076)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of New Wester Echt Stone Circle (SM 6074)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Effect on the setting of South Leylodge Steading Stone Circle (SM 12350)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Cumulative			
Cumulative effect on the setting of Balkemback Cottages Stone Circle (SM 2868)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Cumulative effect on the setting of St Orland's Stone (SM 90270)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Cumulative effect on the setting of East Finnercy Cairn (SM 6076)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Cumulative effect on the setting of South Leylodge Steading Stone Circle (SM12350)	Moderate adverse (Significant)	None proposed.	Moderate adverse residual effect (Significant)
Hydrology, Hydrogeology, Geology and Soils			
Construction			
Effect on water quality (increased sediment/silt runoff and pollution and accidental spillage) to downstream watercourses and receptors: - Dean Water catchment (includes River Tay SAC and River Tay Drinking Water Protection Area (DWPA)) - River South Esk catchment, includes River South Esk Special Area of Conservation (SAC) - West Water catchment - Bervie Water catchment - Carron Water catchment - River Dee catchment (including River Dee SAC and DWPA)	Moderate (Significant)	Additional pollution control mitigation and Sustainable Urban Drainage Schemes (SuDS) (eg settlement ponds and silt fences) installed at locations where the recommended riparian buffers could not be achieved to reduce the risk of sediment/silt runoff and spills to the water environment during construction. Any required widening/upgrades to existing access tracks (within the buffer encroachments) will occur at the opposite side of the track to the watercourse. No construction materials (soils/ materials or fuels) will be placed within flood risk areas, where practical. Additional silt and sediment control will be put in place during forestry felling at OHL watercourse crossings of the River South Esk and the Noran Water and at the felling along the northern bank of the River South Esk. Additional silt and sediment control measures will be put in place during forestry felling at OHL watercourse crossings of the Burn of Sheechoch and the River Dee.	Negligible (Not Significant)
Effect on Private Water Supply (PWS) quality and quantity			
Coldstream Spring 2	Moderate (Significant)	Additional surface water run-off control (eg SuDS, silt fences); micro-siting of working area of tower S195; monitoring before, during and after construction; provide an alternative water supply if required, e.g. via the existing mains connection or portable bowsers.	Minor (Not Significant)
Mains of Drumhendry	Moderate (Significant)	Further investigation to establish whether there is a PWS at the assumed locality. Monitoring before, during and after construction; if required, install an alternative water supply, eg via a mains connection or portable bowsers.	Negligible to Minor (Not Significant)
Whins Farm	Moderate (Significant)	Further investigation to establish whether there is a PWS at the assumed locality. Monitoring before, during and	Negligible to Minor (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		after construction; if required, install an alternative water supply, eg via a mains connection or portable bowzers.	
Inches Farm and Cottage	Moderate (Significant)	Detailed investigation of the supply pipework prior to construction. Monitoring before, during and after construction; provide an alternative, suitable, water supply if required, e.g. portable bowzers, new PWS or new mains connection,	Minor (Not Significant)
Cotbank	Moderate (Significant)	Surface water run-off control (eg SuDS, silt fences); monitoring before, during and after construction; provide an alternative water supply if required, eg portable bowzers, new PWS or new mains connection.	Minor (Not Significant)
Park Estate including Lochwood Cottage (Well)	Moderate (Significant)	Investigation and cognisance of the distribution network before, and during construction; monitoring before, during and after construction; provide an alternative water supply if required, eg, portable bowzers, new PWS or new mains connection.	Negligible (Not Significant)
King's Well	Moderate (if still in use) (Significant)	Further investigation to establish whether the well is in use will be undertaken before construction. This will inform appropriate mitigation. Monitoring and mitigation; investigation and cognisance of the distribution network before, and during construction.	Negligible to Minor (to be confirmed once it is established whether well is in use) (Not Significant)
Stepsbrae Steading/Backhill of Glack	Moderate (Significant)	Monitoring before, during and after construction; provide an alternative water supply if required, eg portable bowzers, new PWS or new mains connection.	Negligible (Not Significant)
Wardes Farm and Cottage	Moderate (Significant)	Further investigation to establish whether there is a PWS at the assumed locality. Surface water run-off control (eg SuDS, silt fences); Monitoring before, during and after construction; provide an alternative water supply if required, eg portable bowzers, new PWS or new mains connection.	Negligible to Minor (Not Significant)
Leylodge Schoolhouse	Moderate (Significant)	Investigation and cognisance of the distribution network before, and during construction; Monitoring before, during and after construction; provide an alternative water supply if required, eg portable bowzers, new PWS or new mains connection.	Negligible to Minor (Not Significant)
Effects on Groundwater Dependent Terrestrial Ecosystems (GWDTE)			

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
GWDTE 1	Moderate (Significant)	Access track to tower S153 will be designed to enable subsurface flows to be maintained. Additional silt fences, silt traps and SuDS will be emplaced and utilised during construction on the east side of the tower S153 and along the east side of the access track.	Minor (Not Significant)
GWDTE 8	Moderate (Significant)	Access track will be designed to enable subsurface flows to be maintained. Additional SuDS, silt traps/fences on towers and access tracks north and south sides (different tracks). Pre- and post-construction monitoring of groundwater levels. Engineering mitigation if groundwater table is high, and adaption of tower and working area, if required.	Minor (Not Significant)
Traffic and Transport			
Construction			
Transport Section i			
Zc6 Residents/Visitors and Road Users	Moderate/Minor (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Zc30 Residents/ Visitors and Road Users	Major/Moderate (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
B957 Residents/Visitors and Road Users	Moderate (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Zc31 Residents/Visitors and Road Users	Major (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Transport Section ii			
B974 Residents/Visitors and Road Users	Moderate (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Glenbervie Road Residents/Visitor and Road Users	Major/Moderate (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as	Minor (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	
Unclassified Road Residents, north of Glenbervie Road and south of C1K Residents/Visitors and Road Users	Major (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
B966 Residents/Visitors and Road Users	Major (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Transport Section ii and iii			
C1K Residents/Visitors and Road Users	Major (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to	Minor (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	
Transport Section iii			
Couper's Road Residents/Users	Major (Significant)	Provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Transport Section i, ii and iii			
Minor Roads and Access Track Users	Major (Significant)	Provision of an Outdoor Access Management Plan; provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	Minor (Not Significant)
Core Path Users/NCN Users	Major (Significant)	Provision of an Outdoor Access Management Plan; provision of a more detailed and project bespoke (Enhanced) Construction Traffic Management Plan (CTMP); providing information to the public via the project website, local newsletters and social media as well as establishment of an information telephone line; and providing signage to warn drivers of the presence of public paths and cycling routes and providing signage to	Minor (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
		advise of dates and hours of construction activity on the core path network in advance of construction works. Proposed mitigation measures to be secured via planning conditions.	
Noise and Vibration			
Construction			
Construction noise associated with vegetation clearance and felling; access and enabling; piling; foundations; tower erection; stringing; scaffold and yard work; and dismantling	Significant	Provision of a Construction Noise Management Plan (CNMP) to set out proactive strategies to manage and minimise the noise and vibration impacts generated by construction. Equipment curtailment to reduce cumulative machinery noise within each phase will reduce impacts at 96% of receptors. The CNMP will ensure best practice so that noise levels are minimised and will consider Noise Sensitive Receptors (NSRs) predicted to experience significant impacts in more detail (Volume 5, Appendix 15.3: Construction Noise Impact Assessment). This will include measures to reduce active time of noisiest equipment over the working hours, reduce quantity of simultaneous equipment, prioritise noisiest activity in daytime, and increase community engagement.	Minor (Not Significant)
Cumulative			
18 of the Inter Developments has the potential to have a cumulative noise impact due to the equipment and increased traffic	Major (Significant)	Cumulative construction noise is required to be controlled through an updated assessment by the Principal Contractors, and a CNMP. Equipment curtailment to reduce cumulative machinery noise within each phase will reduce impacts at 96% of receptors. The CNMP will ensure best practice so that noise levels are minimised and will consider NSRs predicted to experience significant impacts in more detail (Volume 5, Appendix 15.3: Construction Noise Impact Assessment). This will include measures to reduce active time of noisiest equipment over the working hours, reduce quantity of simultaneous equipment, prioritise noisiest activity in daytime, and increase community engagement. Awareness of simultaneous operations of cumulative developments so manage traffic effects.	Minor (Not Significant)

Topic / Receptor	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Interactive Cumulative Effects			
Interactive cumulative effects were predicted on some residential properties, some key recreational routes including Core Paths during construction and accessible watercourses. Effects on accessible watercourses would continue into the operational phase.	Significant	In addition to those set out already in Volume 2, Chapter 17: Schedule of Mitigation , the Principal Contractors will appoint an Environmental Liaison Manager with specific responsibility to lead on managing and wherever possible reducing cumulative environmental effects (in-combination and interactive) during construction.	Significant