Scottish & Southern Electricity Networks

TRANSMISSION

Environmental Impact Assessment (EIA) Report

LT383 Alyth to Tealing Overhead Line (OHL) 400kV Upgrade

November 2024

VOLUME 2: CHAPTER 15 – SUMMARY OF EFFECTS

15.	**SUMMARY OF EFFECTS**	**15-1**
15.1	Introduction	15-1

Figures (Volume 3 of this EIA Report)

There are no Figures associated with this chapter.

Appendices (Volume 4 of this EIA Report)

There are no Appendices associated with this chapter.

15. SUMMARY OF EFFECTS

15.1 Introduction

15.1.1 The findings of the environmental impact assessment (EIA) for the Proposed Development are presented within the technical assessments contained within Volume 2 of this EIA Report.

15.1.2 The significance of these effects has been assessed using criteria defined in the topic chapters. Unless stated otherwise in the technical assessments, the significance of effects are adverse and have been categorised as major, moderate, minor or negligible, with effects assessed as being of 'major' or 'moderate' considered to be significant effects in the context of the Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017 ('the EIA Regulations').

15.1.3 Mitigation measures have been identified to prevent, reduce or remedy any potentially significant adverse environmental effects identified where practicable, beyond that already taken into account as normal good practice (i.e. embedded mitigation), such as the Construction Environment Management Document (CEMD). Such measures will be implemented during detailed design, construction and/ or operation of the Proposed Development. Each technical chapter of this EIA Report details the measures recommended to mitigate any identified significant effect, and a summary of the recommended mitigation measures is provided in Chapter 16 (Volume 2). Any remaining effects following implementation of available mitigation measures are known as 'residual effects'.

15.1.4 The purpose of this chapter is to provide a summary of the environmental effects identified within Chapters 7 to 13 (Volume 2) of this EIA Report.

15.1.5 Following implementation of available mitigation measures, no likely significant residual effects have been identified for the Proposed Development.

Table 15-1 Residual Effects and Significance

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Ecology				
Designated Sites				
River Tay SAC	Mainly, negligible pollution risk	Negligible	None required, embedded design mitigation at Tower 645 and pollution controls sufficient.	No effect (Not significant)
Auchterhouse Hill SSSI	Temporary loss of up to 100 m^2 of grassland and bracken within SSSI boundary to construct access track.	Negligible	Access track reduced as far as possible and microsited to avoid heathland. No works within SSSI boundary without NatureScot authorisation.	Negligible (Not significant)
	Pollution	No effect	None required, embedded mitigation sufficient.	No effect (Not significant)
Pitnappie Moss LNCS	Pollution (airborne or via run-off).	No effect	None required, embedded mitigation sufficient.	No effect (Not significant)
Habitats				
LEP woodland on AWI	Permanent habitat loss.	Minor permanent adverse effect of Local significance.	BNG enhancement measures as prescribed in the BNG Report.	Minor permanent adverse effect of Local significance (Not significant)
	Redesign of woodland to improve resilience.	Minor beneficial effect of site significance.	None.	Negligible (Not significant)
	Damage to ground flora / tree roots	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Pollution	No effect	None required, embedded mitigation sufficient.	Negligible (Not significant)
Woodland not listed on the AWI	Permanent habitat loss.	Minor permanent adverse effect of site significance.	BNG enhancement measures as prescribed in the BNG Report.	Minor permanent adverse effect of Site significance (Not significant)
	Damage to ground flora/ tree roots	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Other SBL Priority Habitats, Annex I Habitats, and GWDTE	Temporary habitat loss.	Negligible	Works to be planned to avoid important habitats where possible.	No effect (Not significant)
	Pollution risk.	Negligible	None required, embedded pollution controls sufficient.	Negligible (Not significant)
	Negligible pollution risk.	Negligible	None required, embedded pollution controls sufficient.	Negligible (Not significant)
	Loss of riparian / channel habitat	Negligible	None.	Negligible (Not significant)
Waterbodies and other watercourses outside of the River Tay SAC	Pollution	Negligible	None required, embedded pollution controls sufficient.	Negligible (Not significant)
	Loss or damage to riparian habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
Species				
Atlantic salmon	Barriers to migration.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Loss of spawning habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Pollution of watercourses	No effect	None required, embedded mitigation sufficient.	No effect (Not significant)
	Mortality of Atlantic salmon	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
Other fish species	Barriers to migration.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Loss of spawning habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Pollution of watercourses	No effect	None required, embedded mitigation sufficient.	No effect (Not significant)
	Mortality	Negligible	None required, embedded mitigation sufficient	Negligible (Not significant
Bats	Loss of foraging/commuting habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Loss of roosting habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Disturbance of foraging/commuting habitat.	No effect	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Disturbance of roosting habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Otter	Disturbance of resting otter.	Negligible	Maintain a 30 m buffer around otter refuges where possible and obtain a derogation licence where not possible.	Negligible (Not significant)
	Disturbance of commuting / foraging otter.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Loss of commuting/ foraging habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Pollution of watercourses	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Injury or mortality of otter	No effect	None required, embedded mitigation sufficient.	Negligible (Not significant)
Pine marten	Permanent loss of foraging / commuting habitat.	Negligible	BNG enhancement measures as prescribed in the BNG Report.	Negligible (Not significant)
	Habitat fragmentation.	No effect	None required, embedded mitigation sufficient.	No effect (Not significant)
	Loss of den sites.	Negligible	Avoid pine marten dens if identified during pre-construction surveys where possible and obtain derogation licence where not possible.	Negligible (Not significant)
	Disturbance of resting pine marten.	Negligible	Maintain an appropriate buffer around dens where possible and obtain derogation licence if not possible.	Negligible (Not significant)
	Disturbance of commuting / foraging pine marten.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant)
Red squirrel	Permanent loss of commuting / foraging habitat.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Loss of dreys.	Negligible	Avoid red squirrel dreys if identified during pre-construction surveys where possible and obtain derogation licence where not possible.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Disturbance of red squirrel *whilst in a drey*.	Negligible	Maintain an appropriate buffer around red squirrel dreys where possible and obtain a derogation licence where not possible.	Negligible (Not significant)
	Injury or mortality of red squirrel.	Negligible	None required, embedded mitigation sufficient.	Negligible (Not significant)
Beaver	Loss of foraging habitat.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant)
	Damage to burrows and lodges.	Negligible.	Plan works to avoid damage to burrows and lodges. If this is not possible, obtain a derogation licence.	Negligible (Not significant)
	Loss of commuting habitat.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Injury or mortality of beaver.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant)
Badger	Habitat fragmentation.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant)
	Habitat loss.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant)
	Disturbance of resting badger.	Negligible.	Maintain a 30 m buffer from badger setts where possible, obtain a derogation licence where not possible.	Negligible (Not significant)
	Injury or mortality of badger.	No effect.	Maintain a 30 m buffer from badger setts where possible, obtain a derogation licence where not possible.	Negligible (Not significant)
Ornithology				
European sites	Integrity of sites.	Negligible	None required.	Negligible (Not significant)
Lapwing	Habitat loss / disturbance.	Negligible	None required.	Negligible (Not significant)
Snipe	Temporary loss of foraging habitat	Negligible	None required.	Negligible (Not significant)
Black Grouse	Habitat loss / disturbance.	Negligible	None required.	Negligible (Not significant)
Osprey	Habitat loss / disturbance	Negligible	None required.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Forestry				
Crow Wood	Extended management felling of trees beyond the wayleave.	Negligible	None required; however, woodland edge management in situ is possible with the planting of woodland shrub species. The Applicant has also committed to undertake off-site compensatory planting within the local authority boundary (where possible) to reflect the removal of tree cover from the expanded corridor.	Negligible (Not significant)
Kirkinch Wood	Extended management felling of trees beyond the wayleave.	Minor adverse	None required; however, woodland edge management in situ is possible with the planting of woodland shrub species. The Applicant has also committed to undertake off-site compensatory planting within the local authority boundary (where possible) to reflect the removal of tree cover from the expanded corridor.	Negligible (Not significant)
Scotston Hill	Extended management felling of trees beyond the wayleave.	Negligible	None required; however, woodland edge management in situ is possible with the planting of woodland shrub species. The Applicant has also committed to undertake off-site compensatory planting within the local authority boundary (where possible) to reflect the removal of tree cover from the expanded corridor.	Negligible (Not significant)
Unnamed plantation (Tower 671 to 672)	Extended management felling of trees beyond the wayleave.	Negligible	None required; however, woodland edge management in situ is possible with the planting of woodland shrub species. The Applicant has also committed to undertake off-site compensatory planting within the local	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
			authority boundary (where possible) to reflect the removal of tree cover from the expanded corridor.	
Balkello Wood	Extended management felling of trees beyond the wayleave.	Minor adverse	None required; however, woodland edge management in situ is possible with the planting of woodland shrub species. The Applicant has also committed to undertake off-site compensatory planting within the local authority boundary (where possible) to reflect the removal of tree cover from the expanded corridor.	Minor adverse/ Negligible (Not significant)
Existing forestry tracks	Ground reprofiling / upgrades to existing tracks.	Minor beneficial / Negligible	N/A	Minor beneficial / Negligible (Not significant)
Cultural Heritage				
SM4337. Cardean Roman Camp (Scheduled Monument)	Ground disturbance associated with upgrades to foundations at Towers 643 and 644, upgrading an existing track to the west of the asset, and the installation of temporary Trackway Panels in the south-west corner of the asset.	Moderate	Archaeological monitoring to be undertaken during construction and ground works (i.e. works including, but not limited to, stripping for access tracks, bell-mouths, and tower foundation upgrades) in areas where archaeological remains have been recorded. Temporary fencing to be installed around scheduled monuments to avoid accidental damage where construction works are undertaken in the same field as a scheduled monument. Training should be provided to construction team, including regular toolbox talks, to make them aware of the limits of the scheduled monument, as well as the legal protection associated with the site.	Minor (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
			Ground protection should be used to avoid impacts, and temporary barriers (such as Heras Fencing) should be provided to prevent accidental damage Scheduled Monument Consent is also required.	
GDL00142. Drumkilbo Garden and Designed Landscape	Potential tree loss (reduction of crowns with no felling) to maintain suitable clearance between trees and the OHL between Towers 646 and 647.	Minor	Archaeological monitoring to be undertaken during construction and ground works (i.e. works including, but not limited to, stripping for access tracks, bell-mouths, and tower foundation upgrades) in areas where archaeological remains have been recorded.	Minor (Not significant)
AECOM003. Farmstead of Funnyneauk.	Temporary removal of a section of dry-stone wall associated with the construction of a new temporary stone track to access Tower 676.	Minor	As above.	Minor (Not significant)
NO33NW0043. Scotston. Remains of quarries.	Ground disturbance associated with minor upgrades to existing tracks.	Negligible	As above.	Negligible (Not significant)
NO34SW0039. Scotston. Remains of a gravel pit.				
NO34SW0037. Scotston Hill. Remains of a quarry.				
NO34SW0031 Scotston. Rig and Furrow.	Loss of earthworks associated with stripping for track upgrades to Tower 666.	Negligible	As above.	Negligible (Not significant)
NO34SW0030. Henderston. Remains of an area of broad rig and furrow cultivation.	Loss of earthworms associated with the upgrade to foundations of Tower 663.			

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
NO34SW0013 Henderston. Rig and Furrow.	Loss of earthworks associated with stripping required for EPZ works linked to Tower 662.			
NO34SW0045. Nevay Park Cottages.	Potential physical impacts on buried remains associated with the upgrading / widening of an existing track to Tower 657.	Negligible	As above.	Minor (Not significant)
NO34SW0022; 88856. Gateside Of Nevay. Enclosure.	Potential physical impacts on buried remains associated with the upgrade of foundations for Tower 655 and the construction of a new temporary stone road to Tower 655.	Minor	As above.	Minor (Not significant)
AECOM001. Farmstead of Myreside.	Potential physical impacts on buried remains associated with the upgrade of foundations for Tower 653, and the installation of trackway panels to access the tower.	Negligible	As above.	Negligible (Not significant)
MPK20338. Cropmarks, Meigle.	Potential physical impacts on buried remains associated with the upgrade of foundations for Tower 648 and the installation of a short section of trackway to provide access to the tower.	Negligible	As above.	Negligible (Not significant)
MPK4873 Haughend. Enclosure	Potential physical impacts on buried remains associated with the upgrade of foundations for Tower 640, the installation of trackway panels to access the tower, and EPZ works.	Minor	As above.	Minor (Not significant)
NO33NE0004; 31875. Balkello Cist(S).	Potential physical impacts on buried remains associated with the construction of a new temporary stone road to access Towers 671 to 679.	Moderate	As above.	Minor (Not significant)
Traffic and Transport				
A928	Severance of communities.	Negligible		Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
B954 Meigle		Negligible	Implementation of Construction Traffic Management Plan throughout construction.	Negligible (Not significant)
U100 Alyth		Minor		Negligible (Not significant)
C11 Meigle		Negligible		Negligible (Not significant)
C445 Kirkinch		Negligible		Negligible (Not significant)
C16 Newtyle		Negligible		Negligible (Not significant)
B954 Dundee Road		Negligible		Negligible (Not significant)
Couston		Moderate		Minor (Not significant)
Bonnyton Road		Moderate		Minor (Not significant)
The Brae		Negligible		Negligible (Not significant)
Tealing Road		Negligible		Negligible (Not significant)
Emmock Road		Negligible		Negligible (Not significant)
A928	Fear and intimidation on and by road users.	Negligible	Implementation of Construction Traffic Management Plan throughout construction.	Negligible (Not significant)
B954 Meigle				
U100 Alyth				
C11 Meigle				
C445 Kirkinch				
C16 Newtyle				
B954 Dundee Road				
Couston				
Bonnyton Road				
The Brae				

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Tealing Road				
Emmock Road				
A928	Road user and pedestrian safety.	Negligible	Implementation of Construction Traffic Management Plan throughout construction.	Negligible (Not significant)
B954 Meigle				
U100 Alyth				
C11 Meigle				
C445 Kirkinch				
C16 Newtyle				
B954 Dundee Road				
Couston				
Bonnyton Road				
The Brae				
Tealing Road				
Emmock Road				
A928	Non-motorised user amenity.	Negligible	Implementation of Construction Traffic Management Plan throughout construction.	Negligible (Not significant)
B954 Meigle		Negligible		Negligible (Not significant)
U100 Alyth		Minor		Negligible (Not significant)
C11 Meigle		Negligible		Negligible (Not significant)
C445 Kirkinch		Negligible		Negligible (Not significant)
C16 Newtyle		Negligible		Negligible (Not significant)
B954 Dundee Road		Negligible		Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Couston		Moderate		Minor (Not significant)
Bonnyton Road		Moderate		Minor (Not significant)
The Brae		Negligible		Negligible (Not significant)
Tealing Road		Negligible		Negligible (Not significant)
Emmock Road		Negligible		Negligible (Not significant)
A928	Non-motorised user delay.	Negligible	Implementation of Construction Traffic Management Plan throughout construction.	Negligible (Not significant)
B954 Meigle		Negligible		Negligible (Not significant)
U100 Alyth		Minor		Negligible (Not significant)
C11 Meigle		Negligible		Negligible (Not significant)
C445 Kirkinch		Negligible		Negligible (Not significant)
C16 Newtyle		Negligible		Negligible (Not significant)
B954 Dundee Road		Negligible		Negligible (Not significant)
Couston		Moderate		Minor (Not significant)
Bonnyton Road		Moderate		Minor (Not significant)
The Brae		Negligible		Negligible (Not significant)
Tealing Road		Negligible		Negligible (Not significant)
Emmock Road		Negligible		Negligible (Not significant)
A928	Road vehicle driver and passenger delay.	Negligible	Implementation of Construction Traffic Management Plan throughout construction.	Negligible (Not significant)
B954 Meigle				
U100 Alyth				
C11 Meigle				

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
C445 Kirkinch				
C16 Newtyle				
B954 Dundee Road				
Couston				
Bonnyton Road				
The Brae				
Tealing Road				
Emmock Road				
Hydrology, Hydrogeology, Geology and Soils				
Sidlaw Hills WFD Groundwater Body	Foundation Improvements – groundwater contamination.	Minor	Implementation of CEMD and WMP.	Minor (Not significant)
	Foundation Improvements – groundwater change in flow.	Minor	Implementation of CEMD and WMP.	Minor (Not significant)
Strathmore WFD Groundwater Body	Foundation Improvements – groundwater contamination.	Minor	Implementation of CEMD and WMP.	Minor (Not significant)
	Foundation Improvements – groundwater change in flow.	Minor	Implementation of CEMD and WMP.	Minor (Not significant)
The Isla and Lower Tay Sand and Gravel WFD Groundwater Body	Foundation Improvements – groundwater change in flow.	Minor	Implementation of CEMD and WMP.	Minor (Not significant)
	Foundation Improvements – groundwater change in flow.	Minor	Implementation of CEMD and WMP.	Minor (Not significant)
	Foundation Improvements – groundwater contamination.	Minor	Implementation of CEMD and WMP Monitoring before, during and after construction.	Minor (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Private Water Supplies	Foundation Improvements – groundwater change in flow.	Minor	Implementation of CEMD and WMP Monitoring before, during and after construction.	Minor (Not significant)
	Access Tracks and other works.	Minor	Implementation of CEMD and WMP Monitoring before, during and after construction.	Minor (Not significant)
AT2	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible/ Minor	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT3	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT6	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Minor	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT7	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT8	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT9	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT10	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT11	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT12	Water Quality - Sediment Laden Run-off.	Minor	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Water Quality - Spillage Risk.	Minor	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT13	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT14	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
AT15	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT16 (Kirkinch Burn)	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT17 (Camno Burn)	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Culverts.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT19 (Dean Water)	Water Quality - Sediment Laden Run-off.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Water Quality - Spillage Risk.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT20	Water Quality - Sediment Laden Run-off.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Water Quality - Spillage Risk.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Water Quality - Foundation Improvements.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Hydromorphology – Culverts.	Minor	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Hydromorphology – Foundation Improvements.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
AT21 (River Isla)	Water Quality - Sediment Laden Run-off.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Water Quality - Spillage Risk.	Moderate	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
AT22 (Commerton Burn)	Water Quality - Sediment Laden Run-off.	Minor	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
	Water Quality - Spillage Risk.	Minor	Implementation of CEMD, WMP and embedded mitigation.	Minor (Not significant)
AT26	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
AT27 (Den Burn)	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT28	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT29 (Denend Burn)	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT31 (Auchterhouse Burn)	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT32	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Water Quality - Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – Foundation Improvements.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
AT33	Water Quality - Sediment Laden Run-off.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Water Quality - Spillage Risk.	Negligible	Implementation of CEMD, WMP and embedded mitigation.	Negligible (Not significant)
Noise and Vibration				
Construction works	Noise impacts from construction works during the day and in the evenings, including at the weekends. Activities include felling, dismantling and removing the conductor, foundations and stringing the conductor.	Major adverse (significant)	A more detailed construction noise assessment with a CNMP, in accordance with the guidance and procedures outlined in BS 5228-1, will need to be conducted by the Principal Contractor and embedded in the CEMD.	Minor (Not significant)
	Vibration impacts from foundation works at Tower 654.	Minor	None.	Minor (Not significant)
	Vibration due to traffic on access routes.	Negligible	None.	Negligible (Not significant)
Operation	Operational corona discharge noise	Negligible / Minor (Not significant)	Application of the ALARP principal, artificially aging the conductor by method of bead blasting, and applying a hydrophilic coating.	Negligible / Minor (Not significant)
	Operational aeolian noise	N/A	Vibration dampers to be used on conductors. Ensure OHL components used do not have a history of reported noise issues, such as insulators / dampers.	N/A
	Internal noise in the night time.	Minor (Not significant)	None.	Minor (Not significant)