### Contents

### Volume 1: Main Report

Glossary Abbreviations

1	Introduction	1-1
1.1	Background	1-1
1.2	Project 9 - Crubenmore to Kincraig	1-2
1.3	Statutory Context for EIA	1-4
1.4	Content of the Environmental Statement	1-6
1.5	Review and Comment	1-7
1.6	References	1-8
2	Need for the Scheme	2-1
2.1	Introduction	2-1
2.2	The A9 Trunk Road	2-1
2.3	National Context for Dualling	2-1
2.4	Previous Studies and Assessments	2-3
2.5	A9 Dualling Programme Objectives	2-6
2.6	Local Context for Dualling	2-6
2.7	References	2-8
3	Alternatives Considered	3-1
3.1	Introduction	3-1
3.2	DMRB Stage 1	3-1
3.3	DMRB Stage 2 – Mainline Options Assessment	3-2
3.4	DMRB Stage 2 Preferred Options	3-9
3.5	References	3-9
4	Design Development	4-1
4.1	Introduction	4-1
4.2	Design Iterations	4-1
4.3	References	4-9
5	The Proposed Scheme	5-1
5.1	Introduction	5-1
5.2	Proposed Scheme Overview	5-1
5.3	Permanent Works – Mainline and Junction Infrastructure (Operational Phase)	5-2
5.4	Temporary Works (Construction Phase)	5-21
5.5	References	5-26
6	Overview of Assessment Process	6-1
6.1	Introduction	6-1
6.2	Topics for Assessment	6-1
6.3	Policy Compliance	6-5
6.4	Cumulative Effects – Chapter 20	6-5
6.5	Schedule of Environmental Commitments – Chapter 21	6-5
6.6	Summary of Significant Residual Impacts – Chapter 22	6-6
6.7	References	6-6



7	Consultation	7-1
7.1	Introduction	7-1
7.2	Previous and Ongoing Consultation	7-2
7.3	Consultation Summary	7-6
7.4	References	7-7
_		
8	People and Communities, Community and Private Assets	8-1
8.1	Introduction	8-1
8.2	Approach and Methods	8-2
8.3	Baseline Conditions	8-14
8.4	Potential Impacts	8-38
8.5	Mitigation Besiduel Impacts	8-62
8.6	Residual Impacts References	8-69
8.7	References	8-81
9	People and Communities, Effects on all Travellers	9-1
9.1	Introduction	9-1
9.2	Approach and Methods	9-3
9.3	Baseline Conditions	9-11
9.4	Potential Impacts	9-28
9.5	Mitigation	9-52
9.6	Residual Impacts	9-59
9.7	References	9-61
10	Geology, Soils and Groundwater	10-1
10.1	Introduction	10-1
10.2	Approach and Methods	10-1
10.3	Baseline Conditions	10-10
10.4	Potential Impacts	10-25
10.5	Mitigation	10-39
10.6	Residual Impacts	10-49
10.7	References	10-55
11	Road Drainage and the Water Environment	11-1
11.1	Introduction	11-1
11.2		11-2
	Baseline Conditions	11-20
11.4	Potential Impacts	11-34
11.5	Mitigation	11-49
11.6	Residual Impacts	11-65
11.7	Summary of Combined Impacts	11-72
11.8	References	11-74
12	Ecology and Nature Conservation	12-1
12.1	Introduction	12-1
12.2	Approach and Methods	12-1
12.3		12-10
12.4		12-39
12.5	Mitigation	12-96
12.6	Residual Impacts	12-109
12.7	References	12-121



13	Landscape	13-1
13.1	Introduction	13-1
13.2	Approach and Methods	13-1
13.3	Baseline Conditions	13-8
13.4	Potential Impacts	13-35
13.5	Mitigation	13-71
13.6	Residual Effects	13-85
13.7	References	13-89
14	Visual	14-1
14.1	Introduction	14-1
14.2	Approach and Methods	14-1
14.3	Baseline Conditions	14-7
14.4	Potential Impacts	14-29
14.5	Mitigation	14-65
14.6	Residual Impacts	14-78
14.7	References	14-85
45		15-1
<b>15</b> 15.1	Cultural Heritage Introduction	15-1 15-1
15.1	Legislation	15-1
15.2	Approach and Methods	15-2
15.3	Baseline Conditions	15-2
15.4	Potential Impacts	15-0
15.6	Mitigation	15-24
15.0	Residual Impacts	15-32
15.7	References	15-41
15.9		15-46
15.9	Photomontages	15-40
16	Air Quality	16-1
16.1	Introduction	16-1
16.2	Approach and Methods	16-1
16.3	Baseline Conditions	16-9
16.4	Potential Impacts Assessment	16-14
16.5	Mitigation and Monitoring Requirements	16-19
16.6	Residual Impacts	16-22
16.7	Overall Evaluation of Significant Effects	16-22
16.8	References	16-23
17	Noise and Vibration	17-1
17.1	Introduction	17-1
17.2	Approach and Methods	17-2
17.3	Baseline Conditions	17-15
17.4	Potential Impacts	17-16
17.5	Mitigation	17-26
17.6	Residual Impacts	17-30
17.7	References	17-34



18	Materials	18-1
18.1	Introduction	18-1
18.2	Approach and Methods	18-1
18.3	Baseline Conditions	18-9
18.4	Key Issues and Limitations to Assessment	18-12
18.5	Potential Impacts Assessment	18-14
18.6	Mitigation	18-19
18.7	Residual Impacts	18-24
18.8	References	18-29
19	Policies and Plans	19-1
19.1	Introduction	19-1
19.2	Approach and Methods	19-1
19.3	Plans and Policies Overview	19-2
19.4	Compliance with Policies and Plans	19-24
19.5	Summary of Potential Effects and Preferred Route Compliance	19-39
19.6	References	19-39
20	Cumulative Impacts	20-1
20.1	Introduction	20-1
20.2	Combined Impacts of the Scheme (Type 1)	20-4
20.3	Type 2 Cumulative Impacts	20-19
20.4	Conclusions	20-34
20.5	References	20-35
21	Schedule of Environmental Commitments	21-1
21.1	Introduction	21-1
21.2	Mitigation Schedules	21-1
22	Summary of Significant Residual Impacts	22-1
22.1	Introduction	22-1



### **Tables**

Chapter 1	Introduction	
Table 1 1:	DMRB Staged Development Process	1-1
Table 1 2:	Schedule 4 EIA Requirements	1-5
Table 1 3:	Contents of the Environmental Statement	1-6
Chapter 2	Need for the Scheme	
Table 2 1:	Comparison of Accident Rates and Ratios (before introduction of average speed cameras)	2-6
Chapter 3	Alternatives Considered	
Table 3 1:	DMRB Stage 2 mainline alignment options	3-4
Table 3 2:	Newtonmore – junction options for comparative assessment at DMRB Stage 2	3-8
Table 3 3:	Kingussie – junction options for comparative assessment at DMRB Stage 2	3-8
Chapter 4	Design Development	
Table 4 1:	DMRB Stage 3 iterative design and review process	4-1
Chapter 5	The Proposed Scheme	
Table 5 1:	Rural all-purpose dual carriageway cross section width requirements	5-1
Table 5.2:	Summary of Earthworks Quantities at DMRB Stage 3	5-13
Table 5 3:	Crubenmore to Kincraig – Proposed Structures	5-14 5-15
Table 5 4: Table 5 5:	Crubenmore to Kincraig – Retaining Walls	5-15
Table 5 5. Table 5 6:	List of major watercourse crossings and associated works Layby Locations	5-10
Table 5 0: Table 5 7:	Proposed accesses	5-20
Chapter 6	Overview of Assessment Process	
Table 6 1:	Mitigation schedule headings	6-4
Chapter 7	Consultation	
Table 7 1:	Consultee forums and groups	7-1
Table 7 2:	Project 9 Public Exhibitions/ Drop-ins	7-3
Chapter 8	People and Communities, Community and Private Assets	
Table 8 1:	Significance criteria for relief from existing community severance	8-3
Table 8 2:	Significance criteria for new community severance	8-4
Table 8 3:	Sensitivity criteria for residential and commercial land and property	8-5
Table 8 4:	Impact magnitude criteria for residential and commercial land and property	8-6
Table 8 5:	Assigning significance of impact for residential and commercial land and property	8-6
Table 8 6:	Impact significance criteria for vehicle access	8-7
Table 8 7:	Sensitivity criteria for community land and property	8-8
Table 8 8:	Impact magnitude criteria for community land and property	8-9
Table 8 9:	Assigning significance of Impact for community land and property	8-9
Table 8 10:	Criteria for sensitivity of agricultural, forestry and sporting Interests	8-10
Table 8 11:	Impact magnitude criteria for agricultural, forestry and sporting interests	8-11
Table 8 12: Table 8 13:	Assigning significance of impact on agricultural, forestry and sporting impacts	8-11
Table 8 13:	Residential properties Accesses utilised by Phoines Estate	8-15 8-22
Table 8 15:	Accesses utilised by Ralia Estate	8-24
Table 8 16:	Accesses utilised by Balavil Estate	8-29
Table 8 17:	Key receptors	8-34
Table 8 18:	Summary of potential temporary (construction phase) impacts on business viability	8-41
Table 8 19:	Land-take areas for residential and commercial land-interests	8-41
Table 8 20:	Summary of permanent differences in journey lengths to and from residential properties.	8-43
Table 8 21:	Summary of permanent differences in journey lengths to commercial properties	8-49
Table 8 22:	Summary of potential business viability impacts (operational phase) on commercial properties	8-52
Table 8 23:	Predicted temporary impacts on agricultural land interests	8-54
Table 8 24:	Predicted temporary impacts on sporting interests	8-55
Table 8 25:	Summary of potential permanent impacts on agricultural interest related land take	8-57



Table 8 26:	Summary of potential impacts on forestry interests	8-58
Table 8 27:	Description of potential permanent impacts on sporting interests	8-58
Table 8 28:	Summary of potential permanent impacts on agricultural, forestry and sporting interests	8-59
Table 8 29:	Summary of permanent potential business viability impacts	8-59
Table 8 30:	Standard, Embedded and Additional Mitigation for Community and Private Assets	8-64
Table 8 31:	Residual impacts in terms of land-take of residential and commercial land	8-71
Table 8 32:		8-71
	Residual impacts in terms of residential and commercial access to and from the A9	-
Table 8 33:	Residual temporary impacts in terms of sporting interests	8-73
Table 8 34:	Residual permanent impacts on agricultural interests	8-74
Table 8 35:	Residual permanent impacts on sporting interests	8-75
Table 8 36:	Residual permanent impacts in terms of forestry interests	8-75
Table 8 37:	Residual permanent impacts on business viability	8-76
Table 8 38:	Predicted residual construction phase impacts	8-78
Table 8 39:	Predicted residual operational (permanent) impacts on community and private assets	8-79
Chapter 9	People and Communities, Effects on all Travellers	
Table 9 1:	NMU Sensitivity Criteria	9-5
Table 9 2:	Magnitude of Impact Criteria for Changes to NMU Journey Length	9-6
Table 9 3:	Significance of Impact on NMU Journey Length	9-6
Table 9 4:	Significance of Impact on NMU Amenity	9-7
Table 9 5:	Impact Significance Criteria for views from the road	9-9
Table 9 6:	Assessment guidance for driver stress for dual carriageway roads	9-9
Table 9 7:	Assessment guidance for driver stress for single carriageway roads	9-9
Table 9 8:	NMU Reference Numbers	9-9 9-11
Table 9 9:	Crossing Point (CP) Reference Numbers	9-12
Table 9 10:	Rail services accessing Newtonmore	9-21
Table 9 11:	Rail services accessing Kingussie	9-21
Table 9 12:	Bus and coach services accessing Newtonmore	9-22
Table 9 13:	Bus and coach services accessing Kingussie	9-22
Table 9 14:	2015 traffic data, A9 at Glen Truim Junction	9-24
Table 9 15:	2015 traffic data, A9 at Newtonmore Junction	9-24
Table 9 16:	2015 traffic data, A9 at Kingussie Junction	9-24
Table 9 17:	Key NMU routes to assess	9-26
Table 9 18:	Construction phase impacts on NMUs	9-30
Table 9 19:	Potential impacts on accessibility and journey length	9-35
Table 9 20:	Potential impacts on amenity	9-39
Table 9 21:	Overall Significance of Impacts on NMUs	9-43
Table 9 22:	Overall Significance of Impacts on views from the road	9-50
Table 9 22:	Projected traffic data for 2026 and 2041 at Glen Truim Junction on A9	9-50
Table 9 24:	Projected traffic data for 2026 and 2041 at Newtonmore Junction on A9	9-51
Table 9 25:	Projected traffic data for 2026 and 2041 at Kingussie Junction on A9	9-51
Table 9 26:	Baseline and projected traffic data comparison	9-51
Table 9 27:	Standard and specific mitigation commitments for the Effects on All Travellers	9-54
Table 9 28:	Summary of residual impacts table – Effects on All Travellers	9-60
Chapter 10	Geology, Soils and Groundwater	
Table 10 1:	Sensitivity Criteria for Geology and Soils	10-4
Table 10 2:	Impact Magnitude Criteria for Geology and Soils	10-4
Table 10 3:	Matrix for Determination of Impact Significance for Geology and Soils	10-4
Table 10 4:	Sensitivity Criteria for Groundwater	10-5
Table 10 5:	Impact Magnitude Criteria for Groundwater	10-6
Table 10 6:	Matrix for Determination of Impact Significance for Groundwater	10-6
Table 10 7:		10-7
	Potential Pollutant Linkages for Potential Contamination	
Table 10 8:	Likelihood Criteria for Potential Contamination	10-8
Table 10 9:	Impact Magnitude (Consequence) Criteria for Potential Contamination	10-9
	Matrix for Determination of Impact Significance (Risk) for Potential Contamination	10-9
	Hydrogeological Characteristics and Sensitivity of Superficial and Solid Geology Units	10-17
	Groundwater Abstractions and Private Water Supplies	10-19
Table 10 13:	Excavation Areas and Depths (equal to or greater than 1.00m)	10-26
Table 10 14:	Estimated Peaty Soil/ Topsoil and Peat Volumes to be Excavated	10-30
Table 10 15:	Potential Impacts on Surface Water Features due to Interaction with Widenings/ Cuttings	10-36
	- •	



Chapter 11       Road Drainage and the Water Environment       11-11         Table 11-1:       Water Feature Sensitivity       11-14         Table 11-3:       Significance of Impact       11-14         Table 11-4:       Significance of Impact       11-18         Table 11-5:       Potential Impacts and Embedded Mitigation       11-38         Table 11-7:       Summary of proposed SuDS features for drainage outfalls       11-36         Table 11-7:       Summary of proposed SuDS features for drainage outfalls       11-46         Table 11-9:       Standard Mitigation Commitments for Protection of the Water Environment       11-57         Table 11-1:       Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment       11-67         Chapter 12:       Ecology and Nature Conservation       11-67         Table 12:1:       Ecology and Nature Conservation       12-61         Table 12:1:       Ecology and Nature Conservation       12-10         Table 12:3:       Importance critical for ecological features       2-6         Table 12:4:       Number of whooger swan within Stor Polections Stor Konseng (winter 20-66 - 2017)       12-13         Table 12:5:       Noter of SSSI breeding habitats within the study area       12-17         Table 12:6:       Number of whooger swan vithin SSI boundany within the study		······································	10-40 10-50
Table 11-1:Water Feature Sensitivity11-14Table 11-2:Significance of Impact11-14Table 11-3:Significance of Impact11-14Table 11-4:Significance of Impact11-21Table 11-5:Sournary of proposed SuDS features for drainage outfalls11-38Table 11-6:Summary of proposed SuDS features for drainage outfalls11-39Table 11-7:Summary of proposed SuDS features for drainage outfalls11-38Table 11-6:Summary of proposed SuDS features for drainage outfalls11-36Table 11-10:Project-Specific Enbedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-11:Project-Specific Additional Mitigation Commitments for Protection of the Water Environment11-60Table 11-12:Project-Specific Additional Mitigation Commitments for Protection of the Water Environment11-67Chapter 12:Ecology and Nature Conservation11-64Table 12:Impact magnitude and character for ecological features12-7Table 12:Ecology and Nature Conservation12-7Table 12:Summary of statutory designated sites within the study area12-11Table 12:Number of Monoger swan within SOM 1000m Of Ner Seys crossing (winter 2016 - 2017)12-13Table 12:Varea (ha) of SSL bheading bird pairs within the study area12-17Table 12:Number of Monoger swan within SSL bhoeding Water Sex crossing (winter 2016 - 2017)12-13Table 12:Varea (ha) of SSL bheading bird pairs within the study area12-17Table 12:N	Chapter 11	Read Drainage and the Water Environment	
Table 11-2Magnitude of Impact11-14Table 11-3Significance of Impact11-18Table 11-4Summary of Groundwater Vulnerability12-21Table 11-6Summary of protential operational-phase impacts11-38Table 11-7Summary of protential operational-phase impacts11-48Table 11-8Summary of protential operational-phase impacts11-46Table 11-9Standard Mitigation Commitments for Protection of the Water Environment11-57Table 11-9Project-Specific Enbedded Mitigation Commitments for Protection of the Water Environment11-67Table 11-1Project-Specific Enbedded Mitigation Commitments for Protection of the Water Environment11-67Table 11-1Project-Specific Enbedded Mitigation Commitments for Protection of the Water Environment11-67Table 12:1Ecology and Nature Conservation12-6Table 12:1Ecology and Nature Conservation12-6Table 12:3Importance criteria for ecological features12-6Table 12:5Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12:6Number of whooper swan within 50m/ 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12:7Number of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-14Table 12:8Area (ha) of msAnshes SAC corded within the study area12-24Table 12:9Area (ha) of msAnshes SAC corded within the study area12-17Table 12:9Area (ha) of msAnshes SAC corded within the study area12-17Table 12:1Summary			11_11
Table 11-3:Significance of impact11-12Table 11-4:Summary of foundwater Vulnerability11-21Table 11-5:Potential impacts and Embedded Mitigation11-38Table 11-7:Summary of proposed SuDS features for drainage outfalls11-39Table 11-8:Summary of proposed SuDS features for drainage outfalls11-39Table 11-8:Summary of proposed SuDS features for drainage outfalls11-46Table 11-10:Project-Specific Constructions for Protection of the Water Environment11-60Table 11-11:Project-Specific Additional Mitigation Commitments for Protection of the Water Environment11-67Chapter 12:Ecology and Nature Conservation11-67Table 12:Impact magnitude and character for ecological features12-7Table 12:Ecology and Nature Conservation12-4Table 12:Summary of statutory designated sites within the study area2-7Table 12:Sumpact magnitude and character for ecological features12-7Table 12:Number of whooper swan counts for each RSPB winter survey compartment12-13Table 12:Number of whooper swan within SOUrn 1000m of River Spect rossing (winter 2016 – 2017)12-13Table 12:Number of status rescriber Admitist within the study area12-26Table 12:Summary of notable habitats recorded within the study area12-26Table 12:Summary of notable habitats recorded within the study area12-26Table 12:Summary of notable habitats recorded within the study area12-26Table 12:Coverview			
Table 11-4Summary of Coundwater Vulnerability11-21Table 11-6Summary of popceds QDS Features for drainage outfalls11-36Table 11-7Summary of popceds QDS Features for drainage outfalls11-38Table 11-8Summary of potential operational-phase impacts11-46Table 11-10Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-10Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-11Project-Specific Cholional' Mitigation Commitments for Protection of the Water Environment11-60Table 11-12Predicted residual impacts on the water environment12-60Table 12:1Ecology and Nature Conservation12-61Table 12:3Importance criteria for ecological features12-71Table 12:5Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12:6Number of whooper swan counts for each RSPB wither survey compartment12-13Table 12:7Number of SSI breading bird pairs within the study area12-24Table 12:8Area (ha) of Insh Marshes SAC outlying habitatis within the study area12-24Table 12:9Area (ha) of Insh Marshes SAC outlying habitatis within the study area12-24Table 12:1Summary of notable habitats recorded within the study area12-24Table 12:1Summary of notable habitats recorded within the study area12-24Table 12:1Summary of notable habitats recorded within the study area12-24Table 12:1Species			
Table 11-6Potential impacts and Embedded Mitigation11-36Table 11-7Summary of proposed SuDS features for drainage outfalls11-38Table 11-8Summary of proposed SuDS features for drainage outfalls11-38Table 11-9Standard Mitigation Commitments for Protection of the Water Environment11-50Table 11-10Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-11Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-12Project-Specific Additional Mitigation Commitments for Protection of the Water Environment11-60Table 12-1Ecologya and Nature Conservation12-4Table 12-2Impact magnitude and character for ecological features12-4Table 12-3Impact magnitude and character for ecological features12-7Table 12-4Summary of statutory designated sites within the study area12-11Table 12-5Coverview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12-6Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12-7Number of SSD breeding bird pairs within fins Marshes NNR 2015-201712-13Table 12-8Area (ha) of find Marshes SAC qualifying habitats within the study area12-26Table 12-9Overview of aduiting All birds within the study area12-26Table 12-16Summary of notable habitats recorded within the study area12-26Table 12-17Coverview of aduiting All birds within t			-
Table 11-6         Summary of popceds CuSD Fautures for drainage outfalls         11-39           Table 11-7         Summary of popceds CuSD Fautures for drainage outfalls         11-46           Table 11-1         Summary of potential operational-phase impacts         11-46           Table 11-10         Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment         11-50           Table 11-11         Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment         11-67           Table 11-12         Predicted residual impacts on the water environment         12-66           Chapter 12         Ecology and Nature Conservation         12-67           Table 12.1:         Ecological surveys and desktop studies undertaken to inform EclA baseline         12-46           Table 12.3:         Impact magnitude and character for ecological features         12-70           Table 12.5:         Relationship between Ramsar site and equivalent SPA, SAC or SSI.         12-11           Table 12.5:         Number of whooper swan subin tho SSI boundary within the study area         12-71           Table 12.5:         Number of whooper swan subins SSI boundary within the study area         12-71           Table 12.5:         Number of whooper swan within SSI boundary within the study area         12-71           Table 12.6:         Number of whooper swan within SSI boundary			
Table 11-7:Summary of proposed SuDS features for drainage outfalls11-36Table 11-8:Summary of proposed SuDS features for drainage outfalls11-46Table 11-10Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-50Table 11-11Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-12Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-60Table 11-12Ecological surveys and desktop studies undertaken to inform EclA baseline12-4Table 12:Impact magnitude and character for ecological features12-6Table 12:Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12:Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12:Number of whooper swan counts for each RSPB winter survey compartment12-13Table 12:Number of whooper swan counts for each RSPB winter survey compartment12-14Table 12:Number of SSI breeding brid pairs within Infis Marshes NNR 2015 - 201712-18Table 12:Area (ha) of Ins Marshes SAC qualifying habitatis within the study area12-24Table 12:Overview of axising AWI sites within the study area12-24Table 12:Summary of notable habitats recorded within the study area12-24Table 12:Summary of notable habitats recorded within the study area12-31Table 12:Summary of notable habitats vecorded wades (excluding SSSI notified features)12-31Table 12: <t< td=""><td></td><td></td><td></td></t<>			
Table 11-8:Summary of potential operational-phase impacts11-46Table 11-9:Standard Milgation Commitments for Protection of the Water Environment11-50Table 11-10:Project-Specific Embedded Milgation Commitments for Protection of the Water Environment11-67Table 11-11:Project-Specific Californal Milgation Commitments for Protection of the Water Environment11-67Table 11-12:Ecology and Nature Conservation12-6Table 12:Ecology and Mature Conservation12-6Table 12:Importance criteria for ecological features12-6Table 12:Importance criteria for ecological features12-70Table 12:Relationship between Ramsar site and equivalent SPA, SAC or SSI.12-11Table 12:Relationship between Ramsar site and equivalent SPA, SAC or SSI.12-11Table 12:Number of whooper swan within SOOm 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12:Number of SSI breeding bird pairs within Insh Marshes NNR 2015 – 201712-14Table 12:Number of SSI breeding bird pairs within Insh Marshes NNR 2015 – 201712-24Table 12:Overview of axisting AVII sites within the study area12-27Table 12:Overview of axisting AVII sites within the study area12-31Table 12:Overview of axisting AVII sites within the study area12-24Table 12:Overview of axisting AVII sites within the study area12-27Table 12:Species details of confirmed rosts recorded within the study area12-27Table 12:Species details of confirmed rosts			
Table 11-9Standard Mtigation Commitments for Protection of the Water Environment11-50Table 11-10Project-Specific Embedded Witigation Commitments for Protection of the Water Environment11-67Table 11-11Project-Specific Additional' Mitigation Commitments for Protection of the Water Environment11-67Chapter 12Ecology and Nature Conservation12-6Table 12:Impact magnitude and character for ecological features12-6Table 12:Summary of statutory designated sites within the study area12-10Table 12:Coverview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12:Number of whooper swan counts for each RSPB winter survey compartment12-13Table 12:Number of SSD breeding bird pairs within Insh Marshes NR 2015 - 201712-13Table 12:Area (ha) of IsBL habitats (within Insh Marshes NR 2015 - 201712-18Table 12:Surmary of natable Marshes StD boundary) within the study area12-27Table 12:Surveriew of additional robust within the study area12-27Table 12:Surver			
Table 11-10Project-Specific Embedded Mitigation Commitments for Protection of the Water Environment11-57Table 11-11Predicted residual impacts on the water environment11-60Table 12-11Ecology and Nature Conservation12-4Table 12-11Ecological surveys and desktop studies undertaken to inform EclA baseline12-4Table 12-12Importance criteria for ecological features12-6Table 12-31Importance criteria for ecological features12-7Table 12-32Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12-5Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12-6Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12-7Number of whooper swan within SSSI boundary within the study area12-17Table 12-8Area (ha) of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12-13Number of whooper swan within SSSI boundary) within the study area12-24Table 12-14Coverview of existing AWI sites within the study area12-24Table 12-15Overview of existing AWI sites within the study area12-24Table 12-15Overview of existing AWI sites within the study area12-31Table 12-15Overview of additional notable overwintering species within Insh Marshes12-31Table 12-15Overview of additional notable overwintering species within Insh Marshes12-31Table 12-15Overview of additional notable overwintering species within Insh Marshes12-31 </td <td></td> <td></td> <td>11-50</td>			11-50
Table 11-12Predicted residual impacts on the water environment11-67Chapter 12Ecology and Nature ConservationTable 12.1:Ecological surveys and desktop studies undertaken to inform EclA baseline12-4Table 12.3:Importance criteria for ecological features12-6Table 12.4:Summary of statutory designated sites within the study area12-10Table 12.5:Relationship between Ramsar site and equivalent SPA, SAC or SSI.12-11Table 12.6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12.6:Area (ha) of SBL habita( within SSI boundary) within the study area12-17Table 12.7:Number of whooper swan within SSU or adary within the study area12-17Table 12.6:Area (ha) of SBL habita( within SSI boundary) within the study area12-26Table 12.1:Summary of notable habitater secorded within the study area12-26Table 12.1:Overview of axiting AWI sites within the study area12-26Table 12.1:Overview of additional notable overwintering species within Insh Marshes12-31Table 12.1:Summary of BRP assessment 201812-33Table 12.1:Summary of BRP assessment 201812-34Table 12.1:Summary of BRP assessment 201812-34Table 12.1:Summary of encotast at Coulintyre cottage and Glentrum railway bridge12-34Table 12.2:Summary of encotast at Coulintyre cottage and Glentrum railway bridge12-34Table 12.4:Summary of encotast at Coulintyre cottage and Glentrum railway brid			11-57
Chapter 12         Ecology and Nature Conservation         12-4           Table 12 1:         Ecological surveys and desktop studies undertaken to inform EclA baseline         12-4           Table 12 2:         Import many criteria for ecological features         12-7           Table 12 4:         Summary of statutory designated sites within the study area         12-10           Table 12 6:         Overview of annual peak whooper swan counts for each RSPB winter survey compartment         12-13           Table 12 7:         Number of whooper swan within 500m' 1000m of River Spey crossing (winter 2016 – 2017)         12-13           Table 12 8:         Area (ha) of SBL habitat (within SSSI boundary) within the study area         12-17           Table 12 9:         Area (ha) of SBL habitat (within Insh Marshes NNR 2015 - 2017)         12-18           Table 12 1:         Number of SSI breeding MWI sites within the study area         12-27           Table 12 1:         Portential GWOTE         12-27           Table 12 1:         Portential GWOTE         12-27           Table 12 1:         Portential GWOTE         12-31           Table 12 1:         Portent	Table 11- 11	Project-Specific 'Additional' Mitigation Commitments for Protection of the Water Environment	11-60
Table 12 1:Ecological surveys and desktop studies undertaken to inform EclA baseline12-4Table 12 2:Importance criteria for ecological features12-6Table 12 3:Impact magnitude and character for ecological features12-7Table 12 4:Summary of statutory designated sites within the study area12-10Table 12 6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12 6:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 8:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 9:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 10:Number of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-26Table 12 12:Overview of additional notable overwintering species within Insh Marshes12-31Table 12 14:Potential GWDTE12-27Table 12 15:Summary of additional notable overwintering species within Insh Marshes12-31Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12 16:Species details of confirmed roosts at Coulinyre cottage and Glentruin railway bridge12-34Table 12 19:Project-wide permeability12-34Table 12 20:Summary of potential impacts for SPA qualifying features12-42Table 12 20:Summary of potential impacts for SPA qualifying features<	Table 11- 12	Predicted residual impacts on the water environment	11-67
Table 12 1:Ecological surveys and desktop studies undertaken to inform EclA baseline12-4Table 12 2:Importance criteria for ecological features12-6Table 12 3:Impact magnitude and character for ecological features12-7Table 12 4:Summary of statutory designated sites within the study area12-10Table 12 6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12 6:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 8:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 9:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 10:Number of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-26Table 12 12:Overview of additional notable overwintering species within Insh Marshes12-31Table 12 14:Potential GWDTE12-27Table 12 15:Summary of additional notable overwintering species within Insh Marshes12-31Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12 16:Species details of confirmed roosts at Coulinyre cottage and Glentruin railway bridge12-34Table 12 19:Project-wide permeability12-34Table 12 20:Summary of potential impacts for SPA qualifying features12-42Table 12 20:Summary of potential impacts for SPA qualifying features<	Chapter 12	Ecology and Nature Conservation	
Table 12 2:Importance criteria for ecological features12-6Table 12 3:Impact magnitude and character for ecological features12-7Table 12 4:Summary of statutory designated sites within the study area12-10Table 12 5:Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12 6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12 7:Number of whooper swan within 500m/ 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12 8:Area (ha) of Insh Marshes SAC qualifying habitats within the study area12-17Table 12 10:Number of SSSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-24Table 12 12:Overview of existing AWI sites within the study area12-26Table 12 13:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-39Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-34Table 12 15:Species details of confirmed roots recorded in man-made structures within the study area12-34Table 12-17:Summary of BRP assessment 201812-41Table 12-18:Details of confirmed roots at Coulintyre cottage and Glentruin railway bridge12-41Table 12-20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Tabl			12-4
Table 12.3:Impact magnitude and character for acological features12-7Table 12.4:Summary of statutory designated sites within the study area12-10Table 12.6:Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12.6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12.6:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12.9:Area (ha) of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12.10:Number of SSIS breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12.11:Summary of notable habitats recorded within the study area12-26Table 12.12:Overview of existing AWI sites within the study area12-26Table 12.13:Potential GWDTE12-27Table 12.14:Population estimates for Strathspey breeding waders (excluding SSI notified features)12-39Table 12.16:Species details of confirmed roosts recorded in man-made structures within the study area12-31Table 12.16:Deverview of encoachment into statutory designated sites12-41Table 12.20:Summary of encoachment into statutory designated sites12-42Table 12.22:Summary of potential impacts for SPA qualifying features12-50Table 12.22:Summary of potential impacts for SPA qualifying features12-50Table 12.22:No. of SSSI breeding wader pairs affected by construction phase disturbance (Ruthven)12-60Table 12.22:No. of SSSI breeding wader pairs aff			
Table 12.4:Summary of statutory designated sites within the study area12-10Table 12.5:Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12.6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12.7:Number of whooper swan within 500m/ 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12.9:Area (ha) of SBL habitat (within SSSI boundary) within the study area12-17Table 12.10:Number of sSSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12.11:Summary of notable habitats recorded within the study area12-24Table 12.12:Overview of existing AWI sites within the study area12-26Table 12.13:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12.16:Species details of confirmed roosts recorded in man-made structures within the study area12-33Table 12.16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12.16:Details of confirmed roosts recorded in summarised by Cutts et al. (2009)12-43Table 12.10:Summary of encroachment into statutory designated sites12-42Table 12.20:Summary of potential impacts for SPA qualifying features12-45Table 12.20:No. of SSSI breeding wader pairs affected by construction phase disturbance (Ruthven)12-60Table 12.22:No. of SSSI breeding wader pairs affected by construction phase disturbance (Ruthven)12-61Table 12.22:No. of			
Table 12 5:Relationship between Ramsar site and equivalent SPA, SAC or SSSI.12-11Table 12 6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12 7:Number of whooper swan within 500m/ 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12 8:Area (ha) of SBL habitat (within SSSI boundary) within the study area12-17Table 12 10:Number of SSSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-24Table 12 12:Overview of existing AVI sites within the study area12-26Table 12 13:Potential GWDTE12-27Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-33Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12 17:Summary of BRP assessment 201812-44Table 12 18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12-28:Summary of pertoxial mapacts for SPA qualifying features12-42Table 12-29:Summary of potential impacts for SPA qualifying features12-42Table 12-18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-43Table 12-22:Summary of potential impacts for SPA qualifying features12-45Table 12-22:Summary of potential impacts for SPA qualifying features12-60Table 12-22:Summary of potential impact			
Table 12 6:Overview of annual peak whooper swan counts for each RSPB winter survey compartment12-13Table 12 7:Number of whooper swan within 500m/ 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12 8:Area (ha) of Ish Marshes SAC qualifying habitats within the study area12-17Table 12 9:Area (ha) of SBL babitat (within SSSI boundary) within the study area12-17Table 12 10:Number of SSSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-26Table 12 12:Overview of existing AWI sites within the study area12-27Table 12 13:Potential GWDTE12-27Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12-16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12-17:Summary of BRP assessment 201812-34Table 12-18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-41Table 12-20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as sumarised by Cutts et al. (2009)12-43Table 12-24:No. of SSSI breeding wader pairs affected by construction phase disturbance12-65Table 12-24:No. of SSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-24:No. of SSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-66 <tr< td=""><td></td><td></td><td></td></tr<>			
Table 12 7:Number of whooper swan within 500m/ 1000m of River Spey crossing (winter 2016 – 2017)12-13Table 12 8:Area (ha) of Insh Marshes SAC qualifying habitats within the study area12-17Table 12 10:Number of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-24Table 12 12:Overview of existing AWI sites within the study area12-26Table 12 13:Potential GWDTE12-27Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12 17:Summary of BRP assessment 201812-34Table 12 18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12-19:Project-wide permeability12-41Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-60Table 12-24:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-60Table 12-24:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-60Table 12-25:No. of SSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-61Table 12-26:No. of SSI breedi			
Table 12 9:Area (ha) of SBL habitat (within SSI boundary) within the study area12-17Table 12 10:Number of SSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-24Table 12 12:Overview of existing AWI sites within the study area12-26Table 12 13:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-27Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12 15:Species details of confirmed roots recorded in man-made structures within the study area12-34Table 12 16:Species details of confirmed roots at Coulintyre cottage and Glentruim railway bridge12-34Table 12 19:Project-wide permeability12-41Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-50Table 12-23:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-63Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-64Table 12-26:Numary of notable habitat loss during construction12-64Table 12-27:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-62Table 12-26:No. of SSI breeding wader pairs affected by construction12-62 <td></td> <td></td> <td>12-13</td>			12-13
Table 12 10:Number of SSSI breeding bird pairs within Insh Marshes NNR 2015 - 201712-18Table 12 11:Summary of notable habitats recorded within the study area12-26Table 12 12:Overview of existing AVII sites within the study area12-26Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-27Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-31Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-34Table 12 17:Summary of BRP assessment 201812-34Table 12 19:Project-wide permeability12-41Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12 21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-60Table 12-24:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-60Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-28:Summary of notable habitat loss during construction12-63Table 12-28:Summary of notable habitat loss during construction12-64Table 12-29:No. of SSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-62Table 12-26:No. of SSI breeding wader pairs affected by construction disturbance12-70Table 12-28:			12-17
Table 12 11:Summary of notable habitats recorded within the study area12-24Table 12 12:Overview of existing AVI sites within the study area12-26Table 12 13:Potential GWDTE12-27Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12 15:Overview of additional notable overwintering species within Insh Marshes12-31Table 12 16:Species details of confirmed roots recorded in man-made structures within the study area12-33Table 12 17:Summary of BRP assessment 201812-34Table 12 18:Details of confirmed roots at Coulintyre cottage and Glentruim railway bridge12-34Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-60Table 12-23:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-26:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-27:No. of SSSI breeding wader pairs potentially displaced due to operational noise12-70Table 12-28:Summary of notable habitat tos during construction12-66Table 12-29:Summary of notable habitat spermanently lost to new infrastructure12-70Table 12	Table 12 9:	Area (ha) of SBL habitat (within SSSI boundary) within the study area	12-17
Table 12 12:Overview of existing AWI sites within the study area12-26Table 12 13:Potential GWDTE12-27Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12 16:Species details of confirmed roots recorded in man-made structures within the study area12-33Table 12 16:Species details of confirmed roots recorded in man-made structures within the study area12-34Table 12 17:Summary of BRP assessment 201812-34Table 12 18:Details of confirmed roots at Coulityre cottage and Glentruim railway bridge12-34Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12 21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:No. of SSSI breeding wader pairs potentially difected by construction phase disturbance (Ruthven)12-60Table 12-24:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-63Table 12-25:No. of SSSI breeding wader pairs affected by termonant habitat loss (Ruthven)12-63Table 12-26:No. of SSSI breeding wader pairs affected by construction12-64Table 12-27:No. of SSSI breeding wader pairs affected by construction12-64Table 12-28:Summary of notable habitat loss during construction12-66Table 12-29:Summary of notable habitat loss during construction12-66Table 12-31:Summ	Table 12 10:	Number of SSSI breeding bird pairs within Insh Marshes NNR 2015 - 2017	12-18
Table 12 13: Potential GWDTE12-27Table 12 14: Population estimates for Strathspey breeding waders (excluding SSI notified features)12-29Table 12-15: Overview of additional notable overwintering species within Insh Marshes12-31Table 12-16: Species details of confirmed roosts recorded in man-made structures within the study area12-33Table 12-17: Summary of BRP assessment 201812-34Table 12-18: Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12 20: Summary of encroachment into statutory designated sites12-42Table 12-20: Summary of potential impacts to noise as summarised by Cutts et al. (2009)12-43Table 12-22: Estimated number of wigeon pairs affected by construction phase disturbance12-50Table 12-25: No. of SSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-26: No. of SSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-62Table 12-27: No. of SSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28: Summary of notable habitat loss uning construction12-66Table 12-30: Summary of notable habitat permanently lost to new infrastructure12-70Table 12-31: Summary of notable habitat pairs potentially displaced due to operational noise (Spey crossing)12-72Table 12-33: No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-76Table 12-33: No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-76Table 12-33: No. of Strathspey breeding wader pairs affected by temporary habitat	Table 12 11:	Summary of notable habitats recorded within the study area	12-24
Table 12 14:Population estimates for Strathspey breeding waders (excluding SSSI notified features)12-29Table 12-15:Overview of additional notable overwintering species within Insh Marshes12-31Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-33Table 12-17:Summary of BRP assessment 201812-34Table 12:19:Project-wide permeability12-41Table 12:20:Summary of encroachment into statutory designated sites12-42Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-22:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-63Table 12:26:No. of SSSI breeding wader pairs softencing by permanent habitat loss (Ruthven)12-66Table 12:28:Summary of notable habitat loss during construction12-66Table 12:39:Summary of anciah wader pairs potentially displaced from Nuide Farm12-72Table 12:30:Summary of anciah wader pairs potentially displaced from Nuide Farm12-72Table 12:31:Summary of anciah wader pairs potentially displaced from Nuide Farm12-74Table 12:32:No. of Strathspey breeding wader pairs affected by construction / operational phase)12-72Table 12:33:No. of Strathspey breeding wader pairs affected by temporary habit	Table 12 12:	Overview of existing AWI sites within the study area	12-26
Table 12-15:Overview of additional notable overwintering species within Insh Marshes12-31Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-33Table 12-17:Summary of BRP assessment 201812-34Table 12-18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12-19:Project-wide permeability12-41Table 12-20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-27:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-28:Summary of notable habitat loss during construction12-66Table 12-29:Summary of notable habitat loss during construction / operational phase)12-72Table 12-31:Summary of anciah woodland permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-33:No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-77Table 12-33:No. of Strathspey breeding wader pairs affected by temporary			
Table 12 16:Species details of confirmed roosts recorded in man-made structures within the study area12-33Table 12-17:Summary of BRP assessment 201812-34Table 12-18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12 19:Project-wide permeability12-41Table 12-20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-62Table 12-26:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-62Table 12-28:Summary of notable habitat loss during construction12-64Table 12-29:Summary of notable habitat loss during construction12-66Table 12-29:Summary of ancient woodland permanently lost to new infrastructure12-70Table 12-31:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76 <td></td> <td></td> <td></td>			
Table 12-17:Summary of BRP assessment 201812-34Table 12-18:Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12 19:Project-wide permeability12-41Table 12 19:Project-wide permeability12-41Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-46Table 12-23:Summary of potential impacts for SPA qualifying features12-60Table 12-24:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-63Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-63Table 12-26:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-66Table 12-27:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-66Table 12-28:Summary of notable habitat loss during construction12-66Table 12-29:Summary of ancient woodland permanently lost to new infrastructure12-72Table 12-31:Summary of ancient woodland permanently lost (construction/operational phase)12-72Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-34:No. of Strathspey breedi			
Table 12-18: Details of confirmed roosts at Coulintyre cottage and Glentruim railway bridge12-34Table 12 19: Project-wide permeability12-41Table 12 20: Summary of encroachment into statutory designated sites12-42Table 12-21: Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22: Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23: Summary of potential impacts for SPA qualifying features12-50Table 12-24: No. of SSSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-25: No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-63Table 12-27: No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-66Table 12-27: No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-66Table 12-27: No. of SSSI breeding wader pairs affected by construction12-66Table 12-28: Summary of notable habitat loss during construction12-66Table 12-30: Summary of notable habitat loss during construction / operational phase)12-72Table 12-31: Summary of ancient woodland permanently lost to new infrastructure12-74Table 12-32: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-75Table 12-33: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-34: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat			
Table 12 19:Project-wide permeability12-41Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:Summary of potential impacts for SPA qualifying features12-50Table 12-24:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-61Table 12-26:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-62Table 12-27:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28:Summary of notable habitat loss during construction12-64Table 12-29:Summary of notable habitat loss during construction/operational phase)12-70Table 12-31:Summary of ancient woodland permanently lost construction/operational phase)12-77Table 12-32:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-77Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35:No. of Strathspey breeding wader pairs af			
Table 12 20:Summary of encroachment into statutory designated sites12-42Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:Summary of potential impacts for SPA qualifying features12-50Table 12-24:No. of SSSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-62Table 12-26:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-27:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-64Table 12-28:Summary of notable habitat loss during construction12-64Table 12-29:Summary of notable habitat loss during construction12-66Table 12-30:Summary of ancient woodland permanently lost (construction/operational phase)12-72Table 12-31:Summary of ancient woodland permanently lost (construction disturbance (Ruthven))12-75Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-75Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76			
Table 12-21:Overview of bird reactions to noise as summarised by Cutts et al. (2009)12-43Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:Summary of potential impacts for SPA qualifying features12-50Table 12-24:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-26:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-27:No. of SSSI breeding wader pairs optentially displaced due to operational noise (Spey crossing)12-64Table 12-28:Summary of potential impacts for the SSSI breeding bird assemblage12-66Table 12-29:Summary of notable habitat loss during construction12-66Table 12-30:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-31:Summary of ancient woodland permanently lost (construction disturbance (Ruthven))12-76Table 12-33:No. of Strathspey breeding wader pairs affected by construction disturbance (Ruthven)12-76Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-76Table 12-35:No. of Strathspey breeding wader pairs affected b			
Table 12-22:Estimated number of wigeon pairs affected by construction phase disturbance12-45Table 12-23:Summary of potential impacts for SPA qualifying features12-50Table 12-24:No. of SSSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-26:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-27:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-64Table 12-28:Summary of potential impacts for the SSI breeding bird assemblage12-64Table 12-30:Summary of notable habitat loss during construction12-66Table 12-31:Summary of notable habitat permanently lost to new infrastructure12-70Table 12-32:No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-72Table 12-33:No. of Strathspey breeding wader pairs affected by construction disturbance (Ruthven)12-75Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by permanent habitat loss around Nuide Farm12-79Table 12-36:No. of Strathspey breeding wader pairs affected by perman			
Table 12-23:Summary of potential impacts for SPA qualifying features12-50Table 12-24:No. of SSSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12-26:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-62Table 12-27:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28:Summary of notable habitat loss during construction12-66Table 12-30:Summary of notable habitat spermanently lost to new infrastructure12-70Table 12-31:Summary of notable habitats permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-77Table 12-36:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-37:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-77Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-78Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-37:No. of Strathspey breeding wader pairs affecte			
Table 12-24:No. of SSSI breeding wader pairs potentially affected by construction phase disturbance (Ruthven)12-60Table 12-25:No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12 26:No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-27:No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28:Summary of potential impacts for the SSSI breeding bird assemblage12-64Table 12-29:Summary of notable habitat loss during construction12-66Table 12 30:Summary of notable habitats permanently lost to new infrastructure12-70Table 12-31:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-33:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-77Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-39:Summary of potenti			
Table 12-25: No. of SSSI breeding wader pairs affected by temporary habitat loss (Ruthven)12-60Table 12 26: No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-27: No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28: Summary of potential impacts for the SSSI breeding bird assemblage12-64Table 12 30: Summary of notable habitat loss during construction12-66Table 12 31: Summary of notable habitats permanently lost to new infrastructure12-70Table 12-32: No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-75Table 12-34: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-37: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-38: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-39: Summary of potential impacts on breeding birds12-79Table 12-39: Summary of potential impacts on breeding birds12-79Table 12-39: Summary of potential impacts on breeding birds12-80Table 12-40: Potential impacts for each ecological feature before mitigation12-80Table 12-41: Summary of Mitigation Requirements12			
Table 12 26: No. of SSSI breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-62Table 12-27: No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28: Summary of potential impacts for the SSSI breeding bird assemblage12-64Table 12 29: Summary of notable habitat loss during construction12-66Table 12 30: Summary of notable habitat permanently lost to new infrastructure12-70Table 12 31: Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32: No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33: No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-77Table 12-36: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-37: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-77Table 12-37: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-76Table 12-37: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39: Summary of potential impacts on breeding birds12-82Table 12-39: Summary of potential impacts on breeding birds12-82Table 12-39: Summary of Mitigation Requirements12-90Table 12-41: Summary of Mitigation Require			
Table 12-27: No. of SSSI breeding wader pairs affected by permanent habitat loss (Ruthven)12-63Table 12-28: Summary of potential impacts for the SSSI breeding bird assemblage12-64Table 12 29: Summary of notable habitat loss during construction12-66Table 12 30: Summary of notable habitats permanently lost to new infrastructure12-70Table 12 31: Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32: No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-76Table 12-33: No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36: No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37: No. of Strathspey breeding wader pairs affected by permanent habitat loss around Nuide Farm12-79Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-37: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39: Summary of potential impacts on breeding birds12-82Table 12-39: Summary of Mitigation Requirements12-90Table 12-40: Potential impacts for each ecological feature before mitigation12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-97			
Table 12-28:Summary of potential impacts for the SSSI breeding bird assemblage12-64Table 12 29:Summary of notable habitat loss during construction12-66Table 12 30:Summary of notable habitats permanently lost to new infrastructure12-70Table 12 31:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33:No. of Strathspey breeding wader pairs affected by construction disturbance (Ruthven)12-75Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss around Nuide Farm12-79Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-39:Summary of potential impacts on breeding birds12-80Table 12-39:Summary of potential impacts on breeding birds12-82Table 12-40:Potential impacts for each ecological feature before mitigation12-90Table 12-41:Summary of Mitigation Requirements12-97Table 12-42:Overview of construction phase residual impacts for ecological features12-114			
Table 12 29:Summary of notable habitat loss during construction12-66Table 12 30:Summary of notable habitats permanently lost to new infrastructure12-70Table 12 31:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33:No. of Strathspey wader pairs potentially affected by construction disturbance (Ruthven)12-75Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs optentially displaced due to operational noise (Spey crossing)12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss around Nuide Farm12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39:Summary of potential impacts on breeding birds12-82Table 12-40:Potential impacts for each ecological feature before mitigation12-90Table 12-41:Summary of Mitigation Requirements12-97Table 12-42:Overview of construction phase residual impacts for ecological features12-114			
Table 12 30:Summary of notable habitats permanently lost to new infrastructure12-70Table 12 31:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33:No. of Strathspey breeding wader pairs potentially affected by construction disturbance (Ruthven)12-75Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37:No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm12-79Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss around Nuide Farm12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39:Summary of potential impacts on breeding birds12-80Table 12-40:Potential impacts for each ecological feature before mitigation12-90Table 12-41:Summary of Mitigation Requirements12-97Table 12-42:Overview of construction phase residual impacts f			
Table 12 31:Summary of ancient woodland permanently lost (construction/ operational phase)12-72Table 12-32:No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33:No. of Strathspey wader pairs potentially affected by construction disturbance (Ruthven)12-75Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss around Nuide Farm12-79Table 12-37:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39:Summary of potential impacts on breeding birds12-82Table 12-40:Potential impacts for each ecological feature before mitigation12-90Table 12-41:Summary of Mitigation Requirements12-97Table 12-42:Overview of construction phase residual impacts for ecological features12-71			
Table 12-32: No. of Strathspey breeding wader pairs potentially displaced from Nuide Farm12-74Table 12-33: No. of Strathspey wader pairs potentially affected by construction disturbance (Ruthven)12-75Table 12-34: No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36: No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37: No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm12-79Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39: Summary of potential impacts on breeding birds12-82Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12-41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-91			
Table 12-34:No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm12-76Table 12-35:No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12-36:No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37:No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm12-79Table 12-38:No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12-39:Summary of potential impacts on breeding birds12-82Table 12-40:Potential impacts for each ecological feature before mitigation12-90Table 12-41:Summary of Mitigation Requirements12-97Table 12-42:Overview of construction phase residual impacts for ecological features12-114			
Table 12-35: No. of Strathspey breeding wader pairs affected by temporary habitat loss (Ruthven)12-76Table 12 36: No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37: No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-79Table 12-39: Summary of potential impacts on breeding birds12-80Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114			
Table 12 36: No. of Strathspey breeding wader pairs potentially displaced due to operational noise (Spey crossing)12-79Table 12-37: No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12 39: Summary of potential impacts on breeding birds12-82Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114	Table 12-34:	No. of Strathspey breeding wader pairs affected by temporary habitat loss around Nuide Farm	12-76
(Spey crossing)12-79Table 12-37: No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm12-79Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12 39: Summary of potential impacts on breeding birds12-82Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114			12-76
Table 12-37: No. of Strathspey breeding waders affected by permanent habitat loss around Nuide Farm12-79Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12 39: Summary of potential impacts on breeding birds12-82Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114	Table 12 36:		40.70
Table 12-38: No. of Strathspey breeding wader pairs affected by permanent habitat loss (Ruthven)12-80Table 12 39: Summary of potential impacts on breeding birds12-82Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114	T 11 (0.07		
Table 12 39: Summary of potential impacts on breeding birds12-82Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114			
Table 12-40: Potential impacts for each ecological feature before mitigation12-90Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114			
Table 12 41: Summary of Mitigation Requirements12-97Table 12-42: Overview of construction phase residual impacts for ecological features12-114			
Table 12-42: Overview of construction phase residual impacts for ecological features       12-114			
			12-114



Table 12-43:	Overview of operational phase residual impacts on ecological features	12-118
Chapter 13		
Table 13:1:	Criteria for assessing value of landscape designations	13-4
Table 13:2:	Criteria for assessing value of non-designated landscapes	13-4
Table 13:3:	Landscape susceptibility criteria	13-5
Table 13:4:	Landscape sensitivity criteria	13-5
Table 13:5:	Magnitude of landscape effects	13-6
Table 13:6:	Significance of landscape effect	13-7
Table 13:7:	Summary of LCAs and LLCA Value, Susceptibility and Sensitivity	13-28
Table 13:8:	Summary of Landscape Features and Perception Sensitivity	13-32
Table 13:9:	Potential effects upon Glen Truim LCA key characteristics	13-48
	Potential effects upon Badenoch: Upper Strath LCA key characteristics	13-49
Table 13:11:	Potential effects upon Badenoch: Badenoch: Newtonmore to Kingussie LCA key characteristics	13-50
Table 13:12:	Potential effects upon Badenoch: Badenoch: Insh Marshes LCA key characteristics	13-51
Table 13:13:	Potential effects on LLCAs at construction	13-53
Table 13:14:	Potential Effects on LLCAs at Operation Year 1 and Years 15-25	13-57
Table 13:15:	Effects on SLA special qualities	13-68
Table 13:16:	Potential Effects on Landscape Features and Perception at Construction	13-70
Table 13:17:	Potential Effects on Landscape Features & Perception, Operation Year 1 and Years 15-25	13-70
Table 13:18:	Standard Mitigation Commitments for landscape and visual effects and specific mitigation	
	commitments for landscape effects	13-74
Table 13:19:	Summary of residual effects	13-86
Chapter 14		
	Value of views	14-4
Table 14 2:	Visual receptor susceptibility to change	14-4
Table 14 3:	Visual receptor sensitivity to change	14-4
Table 14 4:	Magnitude of visual effects	14-5
Table 14 5:	Significance of visual effect	14-6
Table 14 6:	Proposed Scheme Visual Receptors	14-7
Table 14 7:	Project 9 representative Viewpoint receptors	14-9
Table 14 8:	Representative views from existing lay-bys	14-24
Table 14 9:	Proposed Scheme on-road representative views (from lay-bys)	14-25
Table 14 10:	Construction phase effects on representative visual receptors	14-32
Table 14 11:	Visual receptors assessment at Operational Phase	14-44
Table 14 12:	Standard mitigation commitments for landscape and visual effects and specific	
	mitigation commitments for visual effects	14-66
Table 14 13:	Summary of residual visual effects	14-78
Chapter 15		
Table 15 1:	The value of cultural heritage assets	15-3
Table 15 2:	Magnitude of impact on cultural heritage assets	15-5
Table 15 3:	Significance of Impacts	15-6
Table 15 4:	Cultural heritage assets within the study area	15-7
Table 15 5:	Cultural Heritage Specific Mitigation Requirements	15-38
Table 15 6:	Predicted residual construction impacts on cultural heritage assets	15-42
Table 15 7:	Predicted residual operational impacts on cultural heritage assets	15-44
Chapter 16	Air Quality	
Table 16 1:	Air Quality Objectives for NOX, NO2, PM10 and PM2.5	16-2
Table 16 2:	Magnitude of change criteria	16-8
Table 16 3:	Guidelines to Numbers of Properties Constituting a Significant Effect	16-8
Table 16 4:	NAEI (2017) Total emissions (kt) and source emission contributions (%) by sector for Scotland in 2015	16-11
Table 16 5:	Annual mean background pollutant concentrations (µg m-3) at human health receptors	16-11
Table 16 6:	Sensitive human health receptors identified for the local air quality assessment	16-12
Table 16 7:	Designated Site Critical Loads for Nitrogen Deposition and Baseline Nitrogen	
Table 16 8:	Deposition (kg N ha-1 yr-1)	16-13 16-14
Table 16 8. Table 16 9:	Summary of key receptors considered in each assessment of air quality impacts Overall risk of dust impacts from the four IAQM defined construction activities	16-14 16-16
103.	overall has of dust impacts from the four ingen defined construction activities	10-10



Table 16 10:	Results of the regional assessment for the pollutants NOX, PM10 and CO2	16-17
Table 16 11:	Annual mean background pollutant concentrations (µg m 3) used in the assessment	16-18
Table 16 12:	Proposed standard and scheme-specific dust emission and air quality construction phase	
	mitigation measures	16-20
Table 16 13:	Summary of air quality residual impacts – Proposed Scheme	16-22
Table 16 14:	Summary of air quality effects – Proposed Scheme	16-22
Chapter 17	Noise and Vibration	
Table 17 1:	Assessment methodology for each noise and vibration topic	17-3
Table 17 2:	Criteria Used to Define Noise Sensitive Receptors	17-8
Table 17 3:	Threshold of potential significant effect at dwellings in dB LAeq,t	17-9
Table 17 4:	Transient vibration guide values for cosmetic damage	17-10
Table 17 5:		17-10
Table 17 6:		17-10
Table 17 7:	Significance of Noise Impacts	17-11
Table 17 8:	Consideration of Impacts in the Decision-Making Process	17-11
Table 17 9:	Distances at which vibration may just be perceptible	17-14
Table 17 10:	Uncertainty in relation to the operational road traffic noise assessment	17-14
	Summary of Baseline Noise Measurements	17-15
Table 17 12:	Simplified List of Possible Construction Phasing	17-17
	Predicted Total Construction Noise Levels in each Construction Phase	17-18
Table 17 14:	Predicted Vibration from Piling during Construction, PPV (mm/s)	17-20
	Long-term Traffic Noise Change Do-Minimum 2026 to Do-Minimum 2041	17-20
Table 17 16:	Short-term Traffic Noise Change Do-Minimum 2026 to Do-Something 2026	17-21
Table 17 17:	Predicted Road Traffic Noise Levels for Moderate and Major magnitude Short-Term	
	Change in Road Traffic Noise	17-22
	Predicted Road Traffic Noise Levels for Consideration of Noise mitigation in the Short-Term	17-22
	Long-term Traffic Noise Change Do-Minimum 2026 to Do-Something 2041	17-23
Table 17 20:	Predicted Road Traffic Noise Levels for Minor and Moderate Magnitude Long-Term	
<b>T</b> 11 ( <b>T</b> 6)	Change in Road Traffic Noise	17-24
	Summary of Traffic Noise Nuisance for Dwellings	17-25
	Summary of Traffic Airborne Vibration Nuisance for Dwellings	17-26
	Embedded Noise and Vibration Mitigation Commitments	17-26
	Standard Noise and Vibration Mitigation Commitments for the Construction Phase	17-27
	Noise and Vibration Mitigation Commitments for the Operational Phase	17-29
	Predicted Road Traffic Noise Levels for Dwellings where Noise Mitigation is Recommended	17-30
	Residual Number of Receptors with Traffic Noise Changes Short-Term and Long-Term	17-31
	Residual Number of Properties Affected by Road Traffic Noise Nuisance and Airborne Vibration Nuisance	17-31
Table 17 20	Summary of Noise and Vibration Residual Impacts	17-31
14016 17 23.	ourninary of Noise and Visitation Residual impacts	17-52
Chapter 18	Materials	
Table 18 1:	Value/ sensitivity of regional natural resources (based on professional judgement)	18-5
Table 18 2:	Value/ sensitivity of the waste management infrastructure receptor (HD 212/11)	18-5
Table 18 3:	Magnitude of impact for embodied carbon emissions (HD 212/11)	18-6
Table 18 4:	Magnitude of impact for depletion of natural resources (based on professional judgement)	18-6
Table 18 5:	Magnitude of impact for waste (HD 212/11)	18-7
Table 18 6:	Significance of effect for depletion of natural resources and waste management (HD 212/11)	18-7
Table 18 7:		18-8
Table 18 8:		18-11
	Authorised landfill capacity as of 31 December 2015	18-11
	Identification of the receptors that are relevant to the Materials assessment	18-12
	Estimated total embodied carbon emissions range (excluding and including 15% contingency)	18-16
	Estimated aggregates consumption range (excluding and including 15% contingency)	18-17
	Site clearance and demolition waste range (excluding and including 15% contingency)	18-17
	Estimated excavation waste range (excluding and including 15% contingency)	18-17
	Estimated construction waste range (excluding and including 15% contingency)	18-18
	Detailed assessment reporting matrix prior to additional mitigation	18-18
	Mitigation Measures Reporting Matrix	18-23
	Detailed assessment reporting matrix post mitigation – residual impacts	18-26
	Predicted residual construction impacts on materials receptors	18-28



### Chapter 20 Cumulative Effects

Table 20 1:	Potential Type 1 Cumulative Impacts during operation of the Proposed Scheme	20-6
Table 20 2:	Summary of impacts on properties within Ralia Estate	20-16
Table 20 3:	Summary of impacts on properties within Balavil Estate	20-18
Table 20 4:	Reasonably Foreseeable Developments within the vicinity of the Proposed Scheme	20-19
Table 20 5:	Type 2 Cumulative construction effects on people and communities	20-23
Table 20 6:	Type 2 Cumulative operational impacts on people and communities	20-29
Table 20 7:	Summary of Type 1 and Type 2 Significant Cumulative Impacts	20-34
Chapter 21	Schedule of Environmental Commitments	
Table 21 1:	Schedule of Environmental Commitments – Standard Construction Commitments	21-2
Table 21 2:	Schedule of Environmental Commitments – People and Communities	
	<ul> <li>Community and Private Assets</li> </ul>	21-3
Table 21 3:	Schedule of Environmental Commitments – People and Communities	
	<ul> <li>Effects on All Travellers</li> </ul>	21-6
Table 21 4:	Schedule of Environmental Commitments – Geology, Soils and Groundwater	21-11
Table 21 5:	Schedule of Environmental Commitments - Road Drainage and the Water Environment	21-20
Table 21 8:	Schedule of Environmental Commitments - Ecology and Nature Conservation	21-34
Table 21 7:	Schedule of Environmental Commitments - Landscape and Visual	21-46
Table 21 8:	Schedule of Environmental Commitments - Cultural Heritage	21-58
Table 21 9:	Schedule of Environmental Commitments - Air Quality	21-61
Table 21 10:	Schedule of Environmental Commitments - Noise and Vibration	21-62
Table 21 11:	Schedule of Environmental Commitments – Materials	21-64
Chapter 22	Summary of Significant Residual Impacts	
Table 22 1:	Summary of Significant Residual Adverse Effects	22-2
Table 22 2:	Summary of Significant Residual Beneficial Effects	22-6



## **Figures**

Chapter 1	Introduction	
Figure 1 1:	Project 9 – Crubenmore to Kincraig – regional context	1-2
Figure 1 2:	Project 9 – Crubenmore to Kincraig location and local constraints	1-3
Chapter 3	Alternatives Considered	
Figure 3 1:	Alternative route corridors (A-G) considered via DMRB Stage 1 PES and SEA	3-1
Figure 3 2:	Project 9 mainline sections and options assessed at DMRB Stage 2	3-3
Figure 3 3:	DMRB Stage 2 Options 4a, 4b, 4e, 4f at the River Spey Crossing	3-6
Figure 3 4:	Newtonmore Junction Options taken through DMRB Stage 2 comparative assessment	
	(Option 4 on left, Option 7 on right)	3-8
Figure 3 5:	Kingussie Junction Options taken through DMRB Stage 2 comparative assessment	
	(Option 2 on left, Option 7 on right)	3-8
Chapter 4	Design Development	
Chapter 4	<b>Design Development</b> DMRB3 revision of offline alignment at Insh Marshes embankment and River Spey crossing	4-3
Figure 4 1:		
Figure 4 2:	Illustrative cross-section showing typical landscaped earthworks slopes	4-3 4-4
Figure 4 3:	Newtonmore Junction development from DMRB2 (left image) to DMRB3 (right image)	
Figure 4 4:	Alternative River Spey bridge lengths considered	4-7
Chapter 5	The Proposed Scheme	
Figure 5 1:	Ch. 40,000-40,846 – Dualling to southbound (east) side of existing A9 at Glen Truim	5-2
Figure 5 2:	Approx. ch. 41,400-41,800 – Northbound LILO access to Ralia and Glen Truim	5-3
Figure 5 3:	Approx. ch. 43,150-44,000 – Newtonmore Junction	5-4
Figure 5 4:	Approx. ch. 45,900-46,600 – Northbound LILO access to Nuide Farm and Ralia Lodge	5-5
Figure 5 5:	Series of four A9 bridges at Insh Marshes, River Spey, HML and the Kingussie Junction	5-7
Figure 5 6:	DMRB Stage 3 River Spey bridge design span arrangement	5-8
Figure 5 7:	Approx. ch. 49,300 to 50,400 – B970 Ruthven road crossing, Insh Marshes embankment	
0	and River Spey crossing	5-9
Figure 5 8:	Approx. ch. 50,400 to 51,400 – Kingussie Junction with HML and A86/ B9152 crossings	5-9
Figure 5 9:	Approx. ch. 51,900 to 52,950 – Northbound lay-by at Raitt's Cave to Lynchat	5-10
Figure 5 10:	Approx. ch. 52,800 to 54,000 – Chapelpark underpass and Balavil LILO access	5-12
Figure 5 11:	Approx. ch. 54,800 to 56,500 – Croftcarnoch, Highland Wildlife Park and Meadowside Quarry	5-12
Figure 5 12:	Proposed structure locations	5-14
Figure 5 13:	Typical cross-sections of buried box culverts with bed material and mammal ledges	5-17
Chapter 6	Overview of Assessment Process	
Figure 6 1:	Overview of Permanent and Temporary Works assessment boundaries approach	6-2
Figure 6 2:	Overview of identification of land required for mitigation approach	6-3
Chapter 9	People and Communities, Effects on all Travellers	
Figure 9 1:	Indicative view east from the northbound carriageway at the Glen Truim/ Phoines underpass	9-46
Figure 9 2:	Indicative view northwest from the southbound carriageway at the Newtonmore Junction	9-47
Figure 9 3:	Indicative view northeast towards SuDS basin 461 at Nuide	9-47
Figure 9 4:	Indicative view looking southeast towards the Kingussie Junction slip road and	•
rigalo o I.	SuDS basin 507 from the southbound carriageway	9-48
Figure 9 5:	Indicative view looking northeast towards the Mains of Balavil from the northbound carriageway	9-49
Figure 9 6:	Indicative view looking southwest towards the Mains of Balavil from the southbound carriageway	
0		-
Chapter 11	Road Drainage and the Water Environment	

Figure 11 1: Flow chart of process for selection and impact evaluation of replacement watercourse crossings 11-10



Chapter 13	Landscape	
Figure 13 1:	Illustrative proposals for Ruthven northbound Lay-by at ch. 49,000 – Plan	13-37
Figure 13 2:	Illustrative proposals for Ruthven northbound Lay-by at ch. 49,000 – Section A-A'	13-37
Figure 13 3:	Illustrative proposals for Ruthven northbound Lay-by at ch. 49,000 – Sketch View	13-38
Figure 13 4:	Illustrative proposals for Ruthven southbound Lay-by at ch. 49,400 – Plan	13-38
Figure 13 5:	Illustrative proposals for Ruthven southbound Lay-by at ch. 49,400 – Section B-B'	13-39
Figure 13 6:	Illustrative proposals for Ruthven southbound lay-by at ch. 49,400 – Sketch View	13-39
Figure 13 7:	Illustrative proposals for Insh Marsh southbound Lay-by at ch. 55,850 – Plan	13-40
Figure 13 8:	Illustrative proposals for Insh Marsh southbound Lay-by at ch. 55,850 – Section C-C'	13-40
Figure 13 9:	Illustrative proposals for Insh Marsh southbound Lay-by at ch. 55 850 – Sketch View	13-41
Figure 13 10:	Illustrative proposals for Raitt's Cave retaining wall at ch. 51,800 to 52,400 – Plan	13-42
Figure 13 11:	Illustrative proposals for Raitt's Cave retaining wall at ch. 51,800 to 52,400 – Section R–R'	13-42
Figure 13 12:	Illustrative proposals for Raitt's Cave retaining wall at ch. 51,800 to 52,400 – Sketch View	13-43
Figure 13 13:	Illustrative proposals for Balavil Mains/ House Frontage at ch. 53,550 to 54.400 – Plan	13-43
Figure 13 14:	Illustrative proposals for Balavil Mains/ House Frontage at ch. 53,550 to 54.400 – Section T–T'	13-44
Figure 13 15:	Illustrative proposals for Balavil Mains/ House Frontage at ch. 53,550 to 54.400 – Sketch View	13-44
Figure 13 16:	Rendered 3D model to convey the landform specification	13-71
Chapter 14	Visual	
Figure 14 1:	Indicative view north east towards the Ralia and Glen Truim left-in left-out access from track	
	adjacent to the northbound carriageway	14-40
Figure 14 2:	Indicative view north from northbound carriageway at Newtonmore Junction	14-41
Figure 14 3:	Indicative view towards Newtonmore Junction and underbridge from link road	14-41
Figure 14 4:	Indicative view from U3063 road towards Newtonmore Junction link roads	14-41
Figure 14 5:	Indicative view from northbound carriageway towards SuDS basin 461 at Nuide	14-42
Figure 14 6:	Indicative view towards mainline from access track near Knappach property	14-42
Figure 14 7:	Indicative view from southbound carriageway towards SuDS basin 493 near Ruthven Barracks	14-42
Figure 14 8:	Indicative view of left-in left-out access at Balavil Mains with noise mitigation barriers	14-43
Chapter 15	Cultural Heritage	
Figure 15 1:	Illustrative proposals for Ruthven southbound Lay-by – plan	15-28
Figure 15 2:	Illustrative proposals for Ruthven southbound Lay-by – cross section	15-28
Figure 15 3:	Illustrative proposals for Ruthven southbound lay-by – sketch view	15-29
Figure 15 4:	Illustrative proposals for Raitts Cave – cross section	15-30
Figure 15 5:	Illustrative proposals for Raitts Cave – plan	15-34
Figure 15 6:	Illustrative proposals for Raitts Cave – sketch view	15-34
Figure 15 7:	Illustrative proposals for Balavil Mains/ House Frontage – plan	15-36
Figure 15 8:	Illustrative proposals for Balavil Mains/ House Frontage – cross section	15-36
Figure 15 9:	Illustrative proposals for Balavil Mains/ House Frontage – sketch view	15-37
Chapter 18	Materials	
Figure 18 1:	The waste hierarchy as applied to materials and waste	18-20

Figure 18 2: DfRE process



18-21

# **Photographs**

Chapter 3	Alternatives Considered	
Photograph 3 1:	River Spey Bridge at Kingussie/ Insh Marshes	3-5
Chapter 8	People and Communities, Community and Private Assets	
Photograph 8 1:	Invernahavon Holiday Park	8-16
Photograph 8 2:	The entrance to the Highland Wildlife Park	8-18
Photograph 8 3:	Kingussie Glebe Ponds	8-19
Photograph 8 4:	Ruthven Barracks	8-20
Photograph 8 5:	Insh Marshes National Nature Reserve	8-20
Chapter 9	People and Communities, Effects on all Travellers	
Photograph 9 1:	Off-road NCN7 and CNPA Core Path adjacent to the A9	9-13
Photograph 9 2:	NMU7 running parallel to the northbound side of the A9, by Nuide Farm.	9-14
Photograph 9 3:	Waymarked route of the Wildcat Trail (NMU8) to the south of Newtonmore	9-14
Photograph 9 4:	NMU13 General Wade's Military Road	9-15
Photograph 9 5:	NMU17 has gated access from the B970 to the River Spey	9-16 9-16
Photograph 9 6: Photograph 9 7:	View from the edge of the B970 and NMU19 towards Ruthven Barracks and the A9	9-16 9-17
Photograph 9 7. Photograph 9 8:	NMU22 General Wade's Military Road and CNPA Core Path On-road NMU25 at Balavil	9-17 9-18
Photograph 9 9:	NCN7 and Core Path between Newtonmore and Kingussie, alongside the A86	9-18 9-18
Photograph 9 10:	NCN7 and East Highland Way, on-road section from Kingussie	9-19
Photograph 9 11:	A86/A9 slip road junction at Kingussie, providing access to and from the northbound	0.10
i notograph o i n	carriageway of the A9	9-20
Photograph 9 12:	Ralia Café and Tourist Information car park	9-20
Chapter 11	Road Drainage and the Water Environment	
Photograph 11- 1:	River Spey	11-24
Photograph 11- 2:	Allt Torr an Daimh (MW 9.2/ Hydro ID 138_1)	11-25
Photograph 11- 3:	Caochan Riabhach (MW9.3/ Hydro ID 142)	11-26
Photograph 11- 4:	Allt Eoghainn (MW9.4/ Hydro ID 145)	11-27
Photograph 11- 5:	Milton Burn/ Inverton Burn (MW 9.6/ Hydro ID 147)	11-28
Photograph 11- 6:	Unnamed watercourse (MW 9.11/ Hydro ID 155)	11-29
Photograph 11- 7:	Allt Cealgach (MW 9.12/ Hydro ID 157)	11-30
Photograph 11- 8:	Raitts Burn (MW 9.14/ Hydro ID 162)	11-31
Photograph 11- 9:	Unnamed watercourse (MW 9.17/ Hydro ID 170)	11-31
Photograph 11- 10: Photograph 11- 11:	Lochan an Tairbh (P9.15) Glebe Ponds (P9.18)	11-32 11-32
•		11.02
Chapter 13	Landscape	40.40
Photograph 13:1:	Planting surrounding the River Truim bridge/ road embankment screens the A9	13-12
Photograph 13:2: Photograph 13:3:	Showing the enclosed immediate character of the A9, at Ralia	13-13 13-14
Photograph 13:4:	Undulating terrain providing partial views of the A9 The open landscape of Insh Marshes within the River Spey Floodplain	13-14
Photograph 13:5:	View on approach to Truim Bridge, Loch Etteridge LLCA	13-10
Photograph 13:6:	View of Ralia LLCA facing east from the A86 south of Newtonmore	13-20
Photograph 13:7:	View from the north-west looking towards Newtonmore	13-22
Photograph 13:8:	View to the east from track at approximate ch. 46,200	13-22
Photograph 13:9:	View west towards Kingussie from existing Lay-by 114	13-24
Photograph 13:10	View over Insh Marshes towards Ruthven Barracks	13-25
Photograph 13:11:	View towards the Spey bridge and Kingussie from Insh Marshes	13-25
Photograph 13:12:	View to the south-west to the B9152 from Lynchat village	13-26
Photograph 13:13:	View east to A9 bridge from Highland Wildlife Park access road	13-27



Chapter 14	Visual	
Photograph 14 1:	NCN7 adjacent to the A9 on road to Invernahavon	14-11
Photograph 14 2:	Looking south west towards Ralia Café and the existing	
	A9 embankment from the Ralia Café car park	14-11
Photograph 14 3:	View west along U3063 Ralia-Nuide Road from junction	
	with Ralia Lodge property driveway	14-13
Photograph 14 4:	Agricultural landscape seen from the south western edge of Newtonmore	14-14
Photograph 14 5:	View south from NCN7	14-15
Photograph 14 6:	View towards the River Spey and the A9 from Kerrow Cottage	14-17
Photograph 14 7:	View towards A9 from River Spey and adjacent to Ruthven Bridge	14-18
Photograph 14 8:	View from Ruthven Barracks towards Kingussie	14-19
Photograph 14 9:	View towards the A9, which is behind the line of coniferous trees, from the	
	B9152 and residential receptors within Lynchat	14-21
Photograph 14 10:	View towards the River Spey, Insh Marshes and the A9 from Insh	14-22
Photograph 14 11:	A9 underbridge at the Highland Wildlife Park (from road leading to Highland Wildlife Park)	14-23

### **Volume 2: Technical Appendices**

Please see the Volume 2 document for the list of Technical Appendices

### **Volume 3: Environmental Drawings**

Please see the Volume 3 document for the list of Environmental Drawings

