



A9 Dualling: Luncarty to Pass of Birnam Environmental Statement

Volume 3: Figures

March 2014

Contents

Volume 3: Figures

This document supports Volume 1 (Main Report) of the A9 Dualling: Luncarty to Pass of Birnam Environmental Statement.

1	Introduction
1.1	A9 Dualling Proposals
1.2	Environmental Constraints
3	Alternatives Considered
3.1	Stage 2 Addendum Option
4	The Proposed Scheme
4.1	Proposed Scheme
4.2	Culvert Extension - Shochie Burn
4.3	Culvert Extension - Ordie Burn
4.4	New Overbridge - Ordie Burn
4.5	Aerial Photography
7	Community and Private Assets
7.1	Community Facilities
7.2	Community Catchment Areas
7.3	Agricultural Land Classification
7.4	Development Allocations
7.5	Planning Applications
7.6	Proposed Scheme Land-take
8	Geology, Contaminated Land and Groundwater
8.1	Potentially Contaminated Land and Hydrogeology Features (1:12,500)
9	Road Drainage and the Water Environment
9.1	Water Features
9.2	Surface Water Hydrology
9.3	Water Mitigation Proposals
9.4a	Shochie Burn – Flood Risk: Indicative Inundation Extent
9.4b	Ordie Burn – Flood Risk: Indicative Inundation Extent
9.4c	Garry Burn – Flood Risk: Indicative Inundation Extent
10	Ecology
10.1	Ecology Study Area
10.2	Phase 1 Habitat Survey Results
10.3	Terrestrial Invertebrate Surveys Land Parcels
10.4	Bat Transects and Static Bat Detector Points
10.5	Bat Survey Results for Buildings, Bridges and Trees
10.6	Breeding Bird Survey Quadrats
10.7	Reptile Refugia Locations and Amphibian HSI Results
10.8	Incidental Pine Marten Results

10.9	Red Squirrel Survey Results
10.10	Otter Survey Results CONFIDENTIAL
10.11	River Habitat, Freshwater Invertebrates, Freshwater Macrophytes, Ponds and Electrofishing and Surveys Sites
11	Landscape
11.1	Landscape Character Areas
11.2	Landscape and Ecological Mitigation
11.3	Existing Photograph and Indicative View (VRM) Viewpoints1-6
11.4	Proposed Planting Structure Guidance
12	Visual
12.1	Visual Receptors
13	Cultural Heritage
13.1	Location of Archaeological Remains and Historic Buildings
13.2	Location of Historic Landscape Types
13.3	Potential for Unknown Archaeological Remains
13.4	Location of Scheme in Relation to Murthly Castle Designed Landscape and Historic Landscape Type 8
14	Air Quality
14.1	Local Air Quality Study Area and NO ₂ Diffusion Tube Locations
14.2	Modelled Air Quality Sensitive Receptors
14.3	Construction Assessment Air Quality Study Area
14.4	Modelled Opening Year (2019) NO ₂ Results: Change Due to the Proposed Scheme
15	Noise and Vibration
15.1	Noise and Vibration Study and Calculation Area
15.2	Location Plan - Sample Noise Receptors
15.3	Location Plan - Baseline Noise Monitoring
15.4	Short-Term Noise Change Contour Plot (Do-Minimum 2019 vs. Do-Something 2019)
15.5a-b	Long-Term Noise Change Contour Plot (Do-Minimum 2019 vs. Do-Something 2034)
15.6	Long-Term Noise Change Contour Plot (Do-Minimum 2019 vs. Do-Minimum 2034)
16	Effects on all Travellers
16.1	Existing Paths/Cycleways and Links to Community Facilities
16.2	Potential Impacts on Paths and Proposed Mitigation
16.3	NMU route between Luncarty and Bankfoot with Proposed Scheme