

TABLE OF CONTENTS – Volume 1

Non Technical Summary of the Environmental Impact Statement

Part I

Background Information and General Description

Chapter 1	Introduction	
1.1	General	1/1
1.2	Purpose of the Scheme	1/2
1.3	Legal Requirements	1/3
1.4	Public Consultation	1/5
1.5	Difficulties Encountered	1/6
Chapter 2	Background to the Project	
2.1	Existing Road Network	2/1
2.2	The Need for a New Road	2/6
2.3	Existing Traffic Conditions and Accidents	2/8
Chapter 3	Description of Proposed Scheme	
3.1	General Description of Scheme	3/1
3.2	Road Design	3/7
3.3	Earthworks	3/30
3.4	Bridges and Structures	3/35
3.5	Drainage	3/39
3.6	Pedestrian and Cycling Provision	3/41
3.7	Signing and Lighting	3/42
3.8	Accommodation Works	3/42
3.9	Utilities	3/44
Chapter 4	Alternative Routes Considered	
4.1	Examination of Alternative Alignment Requirements	4/1
4.2	Development of Possible Route Options	4/1
4.3	Alternative Route Options	4/2
4.4	Assessment of Alternative Route Options	4/9
4.5	Development of the Preferred Route	4/14
4.6	Usk Little Overbridge	4/24
Chapter 5	Traffic Modelling, Traffic Impacts and Economic Analysis	
5.1	Introduction	5/1
5.2	Methodology	5/1
5.3	Data Collection	5/3
5.4	Traffic Growth	5/5
5.5	Other Transport Links	5/5
5.6	Model Building and Calibration	5/6
5.7	N9 Kilcullen to Powerstown Scheme	5/6
5.8	Economic Assessment	5/9
5.9	Conclusions	5/13

Part II Significant Environmental Effects and Proposed Ameliorative Measures

Chapter 6 Human Beings

6.1	Introduction	6/1
6.2	Methodology	6/1
6.3	Population	6/2
6.4	Predicted Impacts	6/10
6.5	Remedial or Reductive Measures	6/20

Chapter 7 The Natural Environment

7.1	Natural Environmental Issues	7/1
7.2	Flora, Fauna and Fisheries	7/2
	7.2.1 Introduction.....	7/2
	7.2.2 Methodology.....	7/2
	7.2.3 The Receiving Environment.....	7/3
	7.2.4 Predicted Impacts.....	7/10
	7.2.5 Remedial or Reductive Measures	7/14
	7.2.6 Residual Impacts	7/19
7.3	Water Quality	7/25
	7.3.1 Introduction.....	7/25
	7.3.2 Methodology.....	7/25
	7.3.3 The Receiving Environment.....	7/26
	7.3.4 Proposed Development – Drainage	7/38
	7.3.5 Predicted Impacts.....	7/39
	7.3.6 Remedial or Reductive Measures	7/43
	7.3.7 Residual Impacts	7/51
7.4	Noise and Vibration.....	7/63
	7.4.1 Introduction.....	7/63
	7.4.2 Assessment Methodology.....	7/63
	7.4.3 The Receiving Environment.....	7/64
	7.4.4 Potential Impacts and Amelioration Measures	7/66
	7.4.5 Construction	7/67
	7.4.6 Residual Impacts	7/73
7.5	Air Quality Impact Assessment	7/84
	7.5.1 Introduction.....	7/84
	7.5.2 Forecasting Methods	7/85
	7.5.3 The Receiving Environment.....	7/87
	7.5.4 Predicted Impacts.....	7/89
	7.5.5 Remedial or Reductive Measures	7/96
	7.5.6 Residual Impacts	7/97
7.6	Soils and Geology	7/107
	7.6.1 Introduction.....	7/107
	7.6.2 The Receiving Environment.....	7/107
	7.6.3 Proposed Development/Site Investigations.....	7/109
	7.6.4 Predicted Impacts.....	7/112
	7.6.5 Remedial or Reductive Measures	7/114
	7.6.6 Residual Impacts	7/116
7.7	Climate.....	7/117
	7.7.1 Introduction.....	7/117
	7.7.2 Characteristics of the Proposed Scheme	7/117
	7.7.3 Impact of Scheme on Climate.....	7/118
	7.7.4 Description of Mitigation Measures	7/118

7.7.5	Residual Impacts	7/118
Chapter 8	Landscape	
8.1	Introduction	8/1
8.2	Methodology	8/1
8.3	The Receiving Environment	8/3
8.4	Predicted Impacts of the Scheme.....	8/12
8.5	Remedial or Reductive Measures	8/27
Chapter 9	Material Assets	
9.1	Introduction	9/1
9.2	Agriculture.....	9/1
9.3	Residential Property.....	9/39
9.4	Commercial Property	9/43
9.5	Recreational Areas.....	9/45
Chapter 10	Architectural, Archaeological and Cultural Heritage	
10.1	Introduction	10/1
10.2	Assessment Methodology	10/1
10.3	The Existing Environment	10/5
10.4	Predicted Impacts	10/19
10.5	Remedial and Reductive Measures.....	10/20
10.6	Recommendations & Mitigation Measures During Construction	10/23
Chapter 11	Construction Phase	
11.1	Introduction	11/1
11.2	Timescale of Construction.....	11/1
11.3	Construction Activities.....	11/1
11.4	Impact of Construction Activities	11/5
11.5	Remedial or Reductive Measures	11/15
Chapter 12	Interrelationships	12/1
Chapter 13	Mitigation Measures	
13.1	Human Beings	13/1
13.2	The Natural Environment	13/1
13.3	The Landscape	13/6
13.4	Material Assets	13/7
13.5	Cultural Heritage	13/8
13.6	Construction Phase.....	13/10

Volume 2 Drawings